APPENDICES

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APPENDIX A

GROUNDWATER MODEL CONVERSION METHODS

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A1 Methodology

The file format of the calibrated USGS model, used to create the GMS version, is that of MODFLOW 2000. Files containing information about model elements that were not the object of calibration are essentially the same as the corresponding files in the GMS format, and can be converted by the straightforward importation through a screen editor. Their structure will not be discussed here. However, files containing results of calibration warrant a closer inspection, as they require a degree of processing to accomplish a proper conversion to GMS.

Model elements subjected to calibration – horizontal hydraulic conductivity (or transmissivity), vertical hydraulic conductivity (or vertical leakance) and recharge – take the form of arrays. This is the result of the division of the modeled area into a finite number of cells. For each model cell within a given layer, a single value of such parameter is required by the model, thus creating an array. The MODFLOW 2000 calibration process creates the required parameter arrays by combining four objects: a group of parameter values, an array of multiplication factors, an array of zone indicators, and a uniform multiplication factor.

In every layer, the model domain is divided into zones by means of a zone indicator array. For each model cell, the array contains an integer number indicating the zone to which the cell is assigned. Each parameter value is linked to a number of zones. To create the array of model parameters, the elements of the array of multiplication factors are multiplied by the parameter values, with the appropriate parameter value for each cell being selected based on the location of the cell in a given zone, as determined by the zone indicator array.

A uniform multiplication factor, i.e. a multiplier for each element of the parameter array, was specified separately. The last step of the conversion process was to perform the operation of multiplying the parameter array by that factor, to obtain the "final" parameter array.

This procedure was followed in converting the MODFLOW 2000 calibrated parameters, expressed as a group of parameter values, an array of multiplication factors, an array zone indicators, and

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the uniform multipliers, to the simple parameter arrays for the importation into GMS. The first stage was accomplished within a spreadsheet program, by means of appropriate "IF" statements. The uniform multiplication factors were applied once the arrays were installed within the GMS model. An example is provided below.

The array is the transmissivity array for Layer 2. The relationship between parameter values and zone numbers is taken from file "parmest.out" of the USGS model. The zone array for Layer 2 is the file "zone2". The array of multiplication factors is file "T2". The file containing the uniform multipliers is "mult-arrays".

Parameter values and parameter-zone correspondances are:

T_{wb} = 277.5 applies in zones 1, 5, 6, 7, 9 and 10

T_{river} = 200 applies in zones 11 and 12

$T_{conduit}$ = 130 applies in zone 8

Note: zones 2, 3 and 4 do not occur in Layer 2.

The spreadsheet program inspected each cell of the array of multiplication factors "T2" with the following instructions:

if the element of zone array (zone2), residing in that cell, is 1, 5, 6, 7, 9 or 10, multiply the multiplication factor residing in that cell (element of array T2) by the parameter value T_{wb} = 277.5;

if the element of zone array (zone2), residing in that cell, is 11 or 12, multiply the multiplication factor residing in that cell (element of array T2) by the parameter value T_{river} = 200;

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if the element of zone array (zone2), residing in that cell, is 8, multiply the multiplication factor residing in that cell (element of array T2) by the parameter value T_{wb} = 130;

The result of this procedure is the array of transmissivities for the model Layer 2. Once imported into GMS, this array was multiplied by the uniform factor of 1.0, as indicated in the file "mult-arrays". Files are shown in Appendix A.

The 2003 USGS model was prepared in terms of the Layer Flow Package. That is, it used hydraulic conductivity of each layer, both vertical and horizontal, and layer thicknesses to calculate inter-cell conductances. In order to keep it compatible with the original 1996 model, which used the Block Centered Flow package (utilizing transmissivity and vertical leakance), the thickness of all layers were input as unit values. The model unit of length is "feet", so all layers are 1-foot thick. This way, the hydraulic conductivity of the 2003 model and transmissivity of the 1996 model are numerically identical, and the 1996 files containing calibrated transmissivities can be used to represent conductivities (Transmissivity = conductivity * thickness. If thickness = 1, then transmissivity = conductivity). Also, the vertical conductivity of each model layer was set to a very high value (1,000 ft/day), which effectively eliminated the vertical flow resistance within model layers. The resistance was included through the use of quasi-three-dimensional confining beds, placed between layers. The thickness of each of the beds was equal to a unit length of 1 foot. This way, the vertical leakance from the 1996 model was numerically equivalent to the vertical hydraulic conductivity of the 2003 model (Leakance = vertical conductivity / thickness. If thickness = 1, then leakance = vertical conductivity). Again, the 1996 files of calibrated leakances could be used to represent vertical conductivities.

It was found that the GMS did not support the quasi-three-dimensional confining bed approach. Therefore, the conversion was accomplished by using the Block Centered Flow package (the same approach as was utilized in the original 1996 USGS model). The BCF package uses the transmissivity and vertical leakance as flow parameters. This was a straightforward application, because of the unit thickness of model layers and quasi-three-dimensional confining beds (all thicknesses were equal to 1 foot, as described in the preceding paragraph).

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There are several different methods of solving finite difference equations that form the basis of the model. Both the USGS model and the converted GMS model used the method of a Pre-Conditioned Conjugate Gradient Solver. During the simulation using the converted model, it was found that the model conversion could be improved by changing some of the parameters of the solver from their original values used in the USGS model. The slight change in convergence behavior of the system likely resulted from the use of different flow packages (Layer Flow Package vs. Block Center Flow Package).

A2 Example of Conversion – Transmissivity in Layer 2

1) Excerpts from file "parmest.out" of the 2003 USGS model, defining the links between parameter values and zone numbers.

Note: sentence "this value has been changed to" denotes changes from the original 1996 model, made in the 2003 model.

Transmissivities (or, horizontal hydraulic conductivities)

```
PARAMETERS DEFINED IN THE LPF PACKAGE

PARAMETER NAME:Twb          TYPE:HK     CLUSTERS:   1
Parameter value from package file is:    267.00
This value has been changed to:          277.50    , as read from
the Sensitivity Process file
        LAYER:   2    MULTIPLIER ARRAY: Trans2    ZONE ARRAY: Zone2
        ZONE VALUES:    1    6    9    5    7   10

PARAMETER NAME:Tactive      TYPE:HK     CLUSTERS:   5
Parameter value from package file is:    68.900
This value has been changed to:          67.720    , as read from
the Sensitivity Process file
        LAYER:   6    MULTIPLIER ARRAY: Trans6    ZONE ARRAY: Zone6
        ZONE VALUES:    2    3    4    5    6    9
        LAYER:   7    MULTIPLIER ARRAY: Trans7    ZONE ARRAY: Zone7
        ZONE VALUES:    2    3    4    5    6    9
        LAYER:   8    MULTIPLIER ARRAY: Trans8    ZONE ARRAY: Zone8
        ZONE VALUES:    2    3    4    5    6    9
        LAYER:   9    MULTIPLIER ARRAY: Trans9    ZONE ARRAY: Zone9
        ZONE VALUES:    2    3    4    5    6    9
        LAYER:  10    MULTIPLIER ARRAY: Trans10    ZONE ARRAY: Zone10
```


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ZONE VALUES: 2 3 4 5 6 9

PARAMETER NAME:Triver TYPE:HK CLUSTERS: 1
Parameter value from package file is: 200.00
LAYER: 2 MULTIPLIER ARRAY: Trans2 ZONE ARRAY: Zone2
ZONE VALUES: 11 12

PARAMETER NAME:Tconduit TYPE:HK CLUSTERS: 6
Parameter value from package file is: 130.00
LAYER: 2 MULTIPLIER ARRAY: Trans2 ZONE ARRAY: Zone2
ZONE VALUES: 8
LAYER: 6 MULTIPLIER ARRAY: Trans6 ZONE ARRAY: Zone6
ZONE VALUES: 8
LAYER: 7 MULTIPLIER ARRAY: Trans7 ZONE ARRAY: Zone7
ZONE VALUES: 8
LAYER: 8 MULTIPLIER ARRAY: Trans8 ZONE ARRAY: Zone8
ZONE VALUES: 8
LAYER: 9 MULTIPLIER ARRAY: Trans9 ZONE ARRAY: Zone9
ZONE VALUES: 8
LAYER: 10 MULTIPLIER ARRAY: Trans10 ZONE ARRAY: Zone10
ZONE VALUES: 8

PARAMETER NAME:Tsalina TYPE:HK CLUSTERS: 3
Parameter value from package file is: 93.000
LAYER: 3 MULTIPLIER ARRAY: Trans3 ZONE ARRAY: ALL
LAYER: 4 MULTIPLIER ARRAY: Trans4 ZONE ARRAY: ALL
LAYER: 5 MULTIPLIER ARRAY: Trans5 ZONE ARRAY: ALL

PARAMETER NAME:Timag TYPE:HK CLUSTERS: 6
Parameter value from package file is: 1.0000
LAYER: 1 MULTIPLIER ARRAY: Trans1 ZONE ARRAY: ALL
LAYER: 6 MULTIPLIER ARRAY: Trans6 ZONE ARRAY: Zone6
ZONE VALUES: 1 10
LAYER: 7 MULTIPLIER ARRAY: Trans7 ZONE ARRAY: Zone7
ZONE VALUES: 1 10
LAYER: 8 MULTIPLIER ARRAY: Trans8 ZONE ARRAY: Zone8
ZONE VALUES: 1 10
LAYER: 9 MULTIPLIER ARRAY: Trans9 ZONE ARRAY: Zone9
ZONE VALUES: 1 10
LAYER: 10 MULTIPLIER ARRAY: Trans10 ZONE ARRAY: Zone10
ZONE VALUES: 1 10

Leakances (or, vertical hydraulic conductivities)

PARAMETER NAME:KVgs TYPE:VKCB CLUSTERS: 1
Parameter value from package file is: 6.45000E-03

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This value has been changed to: 6.32150E-03, as read from the Sensitivity Process file
LAYER: 1 MULTIPLIER ARRAY: Vcont1 ZONE ARRAY: ALL

PARAMETER NAME:KVwb TYPE:VKCB CLUSTERS: 1
Parameter value from package file is: 7.35000E-04
This value has been changed to: 7.38530E-04, as read from the Sensitivity Process file
LAYER: 2 MULTIPLIER ARRAY: Vcont2 ZONE ARRAY: Zone2
ZONE VALUES: 1 5 6 7 9 10 11 12

PARAMETER NAME:KVactive TYPE:VKCB CLUSTERS: 4
Parameter value from package file is: 8.25000E-05
This value has been changed to: 8.39040E-05, as read from the Sensitivity Process file
LAYER: 6 MULTIPLIER ARRAY: Vcont6 ZONE ARRAY: Zone6
ZONE VALUES: 2 3 4 5 6 9
LAYER: 7 MULTIPLIER ARRAY: Vcont7 ZONE ARRAY: Zone7
ZONE VALUES: 2 3 4 5 6 9
LAYER: 8 MULTIPLIER ARRAY: Vcont8 ZONE ARRAY: Zone8
ZONE VALUES: 2 3 4 5 6 9

LAYER: 9 MULTIPLIER ARRAY: Vcont9 ZONE ARRAY: Zone9
ZONE VALUES: 2 3 4 5 6 9

PARAMETER NAME:KVconduit TYPE:VKCB CLUSTERS: 5
Parameter value from package file is: 0.57200
LAYER: 2 MULTIPLIER ARRAY: Vcont2 ZONE ARRAY: Zone2
ZONE VALUES: 8
LAYER: 6 MULTIPLIER ARRAY: Vcont6 ZONE ARRAY: Zone6
ZONE VALUES: 8
LAYER: 7 MULTIPLIER ARRAY: Vcont7 ZONE ARRAY: Zone7
ZONE VALUES: 8
LAYER: 8 MULTIPLIER ARRAY: Vcont8 ZONE ARRAY: Zone8
ZONE VALUES: 8
LAYER: 9 MULTIPLIER ARRAY: Vcont9 ZONE ARRAY: Zone9
ZONE VALUES: 8

PARAMETER NAME:KVsalina TYPE:VKCB CLUSTERS: 3
Parameter value from package file is: 3.00000E-05
LAYER: 3 MULTIPLIER ARRAY: Vcont3 ZONE ARRAY: ALL
LAYER: 4 MULTIPLIER ARRAY: Vcont4 ZONE ARRAY: ALL
LAYER: 5 MULTIPLIER ARRAY: Vcont5 ZONE ARRAY: ALL

PARAMETER NAME:KVimag TYPE:VKCB CLUSTERS: 4
Parameter value from package file is: 3.00000E-05

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LAYER: 6 MULTIPLIER ARRAY: Vcont6 ZONE ARRAY: Zone6
ZONE VALUES: 1 10
LAYER: 7 MULTIPLIER ARRAY: Vcont7 ZONE ARRAY: Zone7
ZONE VALUES: 1 10
LAYER: 8 MULTIPLIER ARRAY: Vcont8 ZONE ARRAY: Zone8
ZONE VALUES: 1 10
LAYER: 9 MULTIPLIER ARRAY: Vcont9 ZONE ARRAY: Zone9
ZONE VALUES: 1 10

Recharge

PARAMETER NAME:RCHurb TYPE:RCH CLUSTERS: 1
Parameter value from package file is: 5.38000E-03
This value has been changed to: 5.48540E-03, as read from the Sensitivity Process file
MULTIPLIER ARRAY: Rech2 ZONE ARRAY: Rch-zone2
ZONE VALUES: 1 4 5

PARAMETER NAME:RCHrur TYPE:RCH CLUSTERS: 1
Parameter value from package file is: 2.00000E-04
This value has been changed to: 2.98160E-04, as read from the Sensitivity Process file
MULTIPLIER ARRAY: Rech2 ZONE ARRAY: Rch-zone2
ZONE VALUES: 2 3 6

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2) Arrays

File "zone2" containing zone numbers for Layer2

File "T2" containing multiplication factors

Array of Layer 2 transmissivities before final multiplication by the uniform multiplication factor.

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Array "Zone 2"

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7
10	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7
11	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7
12	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7
13	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7
14	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7
15	0	0	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7	7
16	0	0	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7	7	7	7
17	0	0	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7	7	7	7	7	7
18	0	0	0	0	0	0	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
19	0	0	11	11	11	7	9	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7
20	0	11	11	11	11	11	7	9	7	7	7	7	7	7	7	7	7	7	7	7	7	7
21	0	11	11	11	11	11	11	9	7	7	7	7	7	7	7	7	7	7	7	7	7	8
22	0	11	11	11	11	11	11	11	7	7	7	7	7	7	7	7	7	7	7	7	8	8
23	0	11	11	11	11	11	11	11	11	7	7	7	7	7	7	7	7	7	7	8	8	1
24	0	0	11	11	11	11	11	11	11	11	7	7	7	7	7	7	7	7	8	8	1	1
25	0	0	0	11	11	11	11	11	11	11	7	7	7	7	7	7	7	8	8	1	1	1
26	0	0	0	11	11	11	11	11	11	11	11	11	7	7	7	7	8	8	1	1	1	1
27	0	0	0	0	12	12	12	12	12	12	12	12	12	5	5	8	8	5	5	5	5	5
28	0	0	0	0	12	12	12	12	12	12	12	12	12	12	8	8	5	5	5	5	5	5
29	0	0	0	0	11	11	11	11	11	11	11	11	11	6	8	1	1	1	9	1	1	1
30	0	0	0	0	0	11	11	11	11	11	11	11	11	6	11	11	1	1	9	9	1	1
31	0	0	0	0	0	0	1	1	1	1	1	1	1	11	6	11	1	1	1	1	1	1
32	0	0	0	0	0	0	0	1	1	1	1	1	1	11	11	11	11	1	1	1	1	1
33	0	0	0	0	0	0	0	1	1	1	1	1	1	1	11	1	11	11	1	1	1	1
34	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	11	1	1	1	1
35	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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Array "T2"

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
10	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
11	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
12	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
13	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
14	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
15	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
16	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
17	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	0	0	10	10	10	1	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	500
20	0	10	10	10	10	10	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	500
21	0	10	10	10	10	10	10	2	1	1	1	1	1	1	1	1	1	1	1	1	1	500	500
22	0	10	10	10	10	10	10	10	1	1	1	1	1	1	1	1	1	1	1	1	500	500	0.99
23	0	10	10	10	10	10	10	10	10	1	1	1	1	1	1	1	1	1	1	500	500	1	0.99
24	0	0	10	10	10	10	10	10	10	10	0.99	1	1	1	1	1	1	1	500	500	1	1	1
25	0	0	0	10	10	10	10	10	10	10	0.99	0.99	1	1	1	1	1	500	500	1	1	1	1
26	0	0	0	10	10	10	10	10	10	10	10	10	0.99	1	1	1	500	500	1	1	1	1	1
27	0	0	0	0	10	10	10	10	10	10	10	10	10	1	1	500	500	1	1	1	1	1	1
28	0	0	0	0	10	10	10	10	10	10	10	10	10	10	500	500	1	1	1	1	1	1	1
29	0	0	0	0	10	10	10	10	10	10	10	10	10	0.5	500	1	1	1	0.99	1	1	1	1
30	0	0	0	0	0	10	10	10	10	10	10	10	10	0.5	10	10	1	1	0.99	0.99	1	1	1
31	0	0	0	0	0	0	1	1	1	1	1	1	1	10	0.5	10	1	1	1	1	1	1	1
32	0	0	0	0	0	0	0	1	1	1	1	1	1	10	10	10	10	1	1	1	1	1	1
33	0	0	0	0	0	0	0	1	1	1	1	1	1	1	10	1	10	10	1	1	1	1	1
34	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	10	1	1	1	1	1
35	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
36	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
37	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
38	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
39	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

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Transmissivity Layer 2 (before multiplication by the uniform multiplying factor)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5
10	0	0	0	0	0	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
11	0	0	0	0	0	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
12	0	0	0	0	0	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
13	0	0	0	0	0	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
14	0	0	0	0	0	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
15	0	0	0	0	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
16	0	0	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
17	0	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
18	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
19	0	0	2000	2000	2000	277.5	555	555	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
20	0	2000	2000	2000	2000	2000	277.5	555	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
21	0	2000	2000	2000	2000	2000	2000	555	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	65000
22	0	2000	2000	2000	2000	2000	2000	2000	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	65000	65000
23	0	2000	2000	2000	2000	2000	2000	2000	2000	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	65000	65000	277.5
24	0	0	2000	2000	2000	2000	2000	2000	2000	2000	274.725	277.5	277.5	277.5	277.5	277.5	277.5	277.5	65000	65000	277.5	277.5
25	0	0	0	2000	2000	2000	2000	2000	2000	2000	274.725	274.725	277.5	277.5	277.5	277.5	277.5	65000	65000	277.5	277.5	277.5
26	0	0	0	2000	2000	2000	2000	2000	2000	2000	2000	2000	274.725	277.5	277.5	277.5	65000	65000	277.5	277.5	277.5	277.5
27	0	0	0	0	2000	2000	2000	2000	2000	2000	2000	2000	2000	277.5	277.5	65000	65000	277.5	277.5	277.5	277.5	277.5
28	0	0	0	0	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	65000	65000	277.5	277.5	277.5	277.5	277.5	277.5
29	0	0	0	0	2000	2000	2000	2000	2000	2000	2000	2000	2000	138.75	65000	277.5	277.5	277.5	274.725	277.5	277.5	277.5
30	0	0	0	0	0	2000	2000	2000	2000	2000	2000	2000	2000	138.75	2000	2000	277.5	277.5	274.725	274.725	277.5	277.5
31	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	2000	138.75	2000	277.5	277.5	277.5	277.5	277.5	277.5
32	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	2000	2000	2000	2000	277.5	277.5	277.5	277.5	277.5
33	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	2000	277.5	2775	2000	277.5	277.5	277.5	277.5
34	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	2000	277.5	277.5	277.5	277.5
35	0	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
36	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
37	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
38	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5
39	0	0	0	0	0	0	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5	277.5

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3) Uniform Multipliers

File "mult-arrays" containing uniform multipliers for each of the transmissivity and leakance arrays.

```
20
  rech2
  OPEN/CLOSE arrays/rech2 1. (8F10.3) -1        Mult.array   1:
recharge layer 2
  trans1
  CONSTANT    0.                                Mult.array   2:
transmissivity layer 1
  trans2
  OPEN/CLOSE arrays/t2    1. (8F10.3) -1        Mult.array   3:
transmissivity layer 2
  trans3
  OPEN/CLOSE arrays/t3    1. (8F10.3) -1        Mult.array   4:
transmissivity layer 3
  trans4
  OPEN/CLOSE arrays/t4    1. (8F10.3) -1        Mult.array   5:
transmissivity layer 4
  trans5
  OPEN/CLOSE arrays/t5    1. (8F10.3) -1        Mult.array   6:
transmissivity layer 5
  trans6
  OPEN/CLOSE arrays/t6    1. (8F10.3) -1        Mult.array   7:
transmissivity layer 6
  trans7
  OPEN/CLOSE arrays/t7    1. (8F10.3) -1        Mult.array   8:
transmissivity layer 7
  trans8
  OPEN/CLOSE arrays/t8    2. (8F10.3) -1        Mult.array   9:
transmissivity layer 8
  trans9
  OPEN/CLOSE arrays/t9    2. (8F10.3) -1        Mult.array   10:
transmissivity layer 9
  trans10
  OPEN/CLOSE arrays/t10    3. (8F10.3) -1       Mult.array   11:
transmissivity layer 10
  vcont1
  OPEN/CLOSE arrays/vcont1 1. (8F10.3) -1       Mult.array   12:
vert cond layer 1
  vcont2
  OPEN/CLOSE arrays/vcont2 1. (8F10.3) -1       Mult.array   13:
vert cond layer 2
  vcont3
  OPEN/CLOSE arrays/vcont3 1. (8F10.3) -1       Mult.array   14:
vert cond layer 3
  vcont4
  OPEN/CLOSE arrays/vcont4 1. (8F10.3) -1       Mult.array   15:
vert cond layer 4
  vcont5
```


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```
  OPEN/CLOSE arrays/vcont5 0.5 (8F10.3) -1       Mult.array   16:
vert cond layer 5
  vcont6
  OPEN/CLOSE arrays/vcont6 1. (8F10.3) -1       Mult.array   17:
vert cond layer 6
  vcont7
  OPEN/CLOSE arrays/vcont7 1. (8F10.3) -1       Mult.array   18:
vert cond layer 7
  vcont8
  OPEN/CLOSE arrays/vcont8 1. (8F10.3) -1       Mult.array   19:
vert cond layer 8
  vcont9
  OPEN/CLOSE arrays/vcont9 0.5 (8F10.3) -1       Mult.array   20:
vert cond layer 9
```


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APPENDIX B

GEOLOGIC BORING LOGS

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	Corporation	BORING NO. :	GW03-001A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 2	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1152369.4	EASTING: 389970.9
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	614.20
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/25/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/9/2003
TOTAL DEPTH DRILLED:	59.00	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Foremost/Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: MH:Medium brown, Silty Clay			
-5	610										
-10	605	C01-1	100	61	0			GASPORT DOLOMITE-PEKIN MEMBER: Medium to hard, brown/grey, fine to medium grained dolomite. Few calcite filled vugs, trace black carbonaceous partings. Several open vugs from 12.23'-13.43'. Vert. fract. @ 23.3'-23.8', 24'-24.5', 25.55'-26.1', 26.2'-26.5', 28.2'-28.4'.		16:15	Began coring on 6/25/03.
-15	600	C01-2	96	96	0					12:31	Resumed coring 6/30/03.
-20	595	C01-3	100	84	0				7.5	12:44	
-25	590	C01-4	94	86	0					12:51	
-30	585	C01-5	104	104	0			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown/grey grading to light grey, fine to coarse grained dolomite. Pits and calcite grains in C01-4. Black carbonaceous partings in C01-5.	0.1	13:00	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-001A

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	Corporation	BORING NO. :	GW03-001A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 2	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
								Black irregular partings at 38.5'. Few crinoid fragments, pink-red colored in C01-6. Vert. fract. 29'-29.9' & 42'-43' (filled w/calcite). 60° fract. @ 30.4'.	0.0		
	580										
-35		C01-6	100	100	0				0.0	13:06	No description between 34.0'-34.9'.
	575	C01-7	100	100	40					13:17	
-40								DECEW DOLOMITE: Hard, dark brown/grey, very fine to fine grained, dolomite.	0.0		
	570	C01-8	100	92	40					13:25	
-45								ROCHESTER SHALE: Medium hard, medium grey to dark grey, very fine to fine grained calcareous shale. Top of unit (C01-8), argillaceous dolomite with soft black partings.	0.0		
	565	C01-9	100	100	40					13:33	
-50											
	560	C01-10	100	100	20					13:40	
-55											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-001A

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	Corporation	BORING NO. :	GW03-002A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 2	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1152935	EASTING: 389884.9
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	618.50
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/25/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/10/2003
TOTAL DEPTH DRILLED:	58.70	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Foremost/Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: Red-brown Silt with some light brown mottling, some clay.			
-5	615										
-10	610										
		C02-1	100	76	0			GASPORT DOLOMITE-PEKIN MEMBER: Hard, brown/grey to brown, fine to medium grained dolomite. Extensive fracturing from 12.5'-13.3'. Several open, calcite filled vugs from 15.5'-17'. Trace black carbonaceous partings.		10:25	Water entered borehole during coring on 6/25/03.
-15	605										
		C02-2	100	63	0					16:40	Resumed coring on 7/1/03.
-20	600	C02-3	96	78	0					16:46	
-25	595	C02-4	100	100	0					16:53	
	590							GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown/grey speckled appearance, fine to coarse grained dolomite. Few gypsum/calcite vugs and pits. Irregular black carbonaceous partings and crystal growth along contact and few crinoids noted in C02-5.			
-30		C02-5	100	100	0					17:00	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-002A

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	Corporation	BORING NO. :	GW03-002A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 2	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
	585	C02-6	98	98	0					17:03	
-35											
	580	C02-7	100	94	0			DECEW DOLOMITE: Hard, dark brown/grey, very fine to fine grained dolomite. Breaks at thick carbonaceous/argillaceous partings. At 43.15', grading to fine grained argillaceous dolomite with grey/black shaly seams, few black carbonaceous pits. Vert. fract. @ 43.4'-43.7', 47'-47.3'. 15° fract. @ 44.5'.		17:14	
-40											
	575	C02-8	100	90	0					17:21	
-45											
	570	C02-9	100	100	0			ROCHESTER SHALE: Hard to medium hard, medium to dark grey, very fine to fine grained calcareous shale. Few dolomite seams 6"-1' thick. Vert. fract. @ 57.5'-57.65'.		17:24	
-50											
	565	C02-10	100	94	0					17:36	
-55											
	560										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-002A

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	Corporation	BORING NO. :	GW03-003A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 2	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1154579.8	EASTING: 389653.9
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	635.20
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/2/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/9/2003
TOTAL DEPTH DRILLED:	51.90	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Foremost/Versa Drill 2002	GEOLOGIST:	Tim Burmeier
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0	635							OVERBURDEN: MH: Silty Clay, occasional cobbles.			
-5	630										
-10	625										
-15	620	C03-1	76	63				GASPORT DOLOMITE-PEKIN MEMBER: Light grey to medium brown/grey, very fine to fine grained dolomite. C03-1,had very fine argillaceous zones, primarily horizontal, few 3" thick near-vertical wavy bedding zones and 3/4" calcite filled vugs. Some dark grey mottling in C03-2. 45° fract. @ 25.6'.		NR	Began coring on 6/3/03.
-20	615	C03-2	96	90						9:50	Resumed coring on 6/11/03.
-25	610	C03-3	100	70				GASPORT DOLOMITE-GOTHIC HILL MEMBER: Light grey coarse grained dolomite with crinoid & brachiopod (some coral) fragments, predom. iron-stained. Several stylolitic partings stained black in C03-3. From 32.7'-35', grades to dark grey/brown with light green/grey shale clasts. Vert. fract. @ 35.9'-36.6'.	0.1	NR	A total of 30 gal. lost to formation from 15'-29'.
-30	605	C03-4	104	100	NR					NR	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-003A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 2	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-35	600	C03-5	100	100	NR				0.0	NR	
-40	595	C03-6	100	96	NR			DECEW DOLOMITE: Medium to dark grey to dark grey/brown, massive, argillaceous dolomite. Dark grey banding in C03-6. 45° fract. @ 43'.		NR	
-45	590							ROCHESTER SHALE: Air hammer drilled from 45'-51.9' (end of boring), no lithology noted.			
-50	585										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-004A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 1	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1155690.7	EASTING: 389471.9
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	620.60
DRILLING METHOD:	NQ Core/8" Air Hammerr	DATE STARTED:	6/9/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammerr	DATE FINISHED:	7/9/2003
TOTAL DEPTH DRILLED:	35.50	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Foremost/Versa Drill 2002	GEOLOGIST:	Tim Burmeier
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0	620							OVERBURDEN: Silty Clay with ocassional cobbles.			
-5	615	C04-1	100	10	0			GASPORT DOLOMITE-PEKIN MEMBER: Medium brown dolomite, sucrose texture. Vert. fract. @ 4.2'-8.8'.		NR	
-10	610	C04-2	89	63	0			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Light to medium grey, fine grained dolomite. Trace coral fragments, some coarse crinoid fragments. Alternating light/dark banding from 12.5'-15.5'. C04-3, crinoid beds are interbedded with 3-4" thick argillaceous dolomite zones. 30° fract. 9.8'.		NR	
-15	605	C04-3	98	96	0					NR	
-20	600	C04-4	100	83	5			DECEW DOLOMITE: Moderately hard, medium grey, very fine grained dolomite.		NR	
-25	595	C04-5	100	90	5					NR	Lost total of 10 gal. between 23.5'-27.5'.
-30	590	C04-6	100	94	0			ROCHESTER SHALE: Moderately hard, dark grey, very fine to fine grained calcareous shale.		NR	
-35											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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Corporation		BORING NO. :	GW03-005A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 2	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1152022.8	EASTING: 395642.7
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	612.60
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/24/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/10/2003
TOTAL DEPTH DRILLED:	59.00	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Foremost/Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: MH: Silty clay, plastic, some mottling.			
	610										
-5											
		C05-1	93	72	0			GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Medium brownish-gray, fine grained dolomite; numerous carbonaceous partings throughout, several calcite filled vugs.		8:55	Began coring on 6/24/03.
	605										
-10								GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Medium brown grey, fine grained dolomite.			
		C05-2	77	30	0					8:28	Resumed coring on 7/3/03.
	600							GASPORT DOLOMITE-PEKIN MEMBER: Hard, dark brown to brown, fine grained dolomite. Few small vugs (some filled with calcite/sphalerite), few black carbonaceous partings and dark grey whisps/ waves. Calcite in fract. @ 15.65', 15.75', & 16.3'.			
		C05-3	100	79	0					8:46	
-15									6.3		
	595										
		C05-4	96	94	0					9:00	
-20									7.5		
	590										
		C05-5	100	100	0					9:11	
-25								GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown to light brown, fine to medium grained dololmite. Color grades to light brown/grey. Few black carbonaceous partings. C05-6 contained medium grey/black fine to coarse grained dolomite. C05-7, few crinoid/brachiopod fragments. Shaly and/or weathered along fract. @ 34.5', 35.45', 35.75', 38.5', 38.95', & 42.8'.	0.0		
	585										
		C05-6	100	100	0					9:20	
-30											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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Corporation	BORING NO. : GW03-005A
PROJECT: Niagara Power Project Relicensing	SHEET: 2 OF 2
CLIENT: New York Power Authority	JOB NO. : 11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
	580								0.0		
-35		C05-7	100	94	0					9:28	
	575								0.0		
-40		C05-8	100	100	0					9:38	
	570							DECEW DOLOMITE: Hard, dark brownish/green, fine grained dolomite. Few stylolites/argillaceous partings.	0.0		
-45		C05-9	100	90	0					9:50	
	565							ROCHESTER SHALE: Medium hard, dark grey, very fine to fine grained calcareous shale with argillaceous dolomite partings.	0.0		
-50		C05-10	100	96	0					11:33	Boring flowing water-artesian.
	560								0.1		
-55		C05-11	100	84	0					11:40	Boring flowing water and gas.
	555										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-005A

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GZA Corporation		BORING NO. :	GW03-006B
PROJECT:	NIAGARA POWER PROJECT RELICENSING	SHEET: 1 OF 3	
CLIENT:	NEW YORK POWER AUTHORITY	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1149591.4	EASTING: 395405.2
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	628.90
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	
TOTAL DEPTH DRILLED:	93.40	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd
		REVIEWED BY:	D. Lenhardt

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 12.0	TIME	REMARKS
0								OVERBURDEN: MH: Medium brown, Silty Clay, trace very fine sand. Hit a boulder/cobble at 1.6'. Wet @3'.			
	625	C06-1	100	24				OVERBURDEN: Medium brown Silt, little clay.		14:40	
-5								ERAMOSA DOLOMITE-UNIT A: Medium grey, fine to medium grained dolomite. 5.75'-8.2', vugs (both empty and calcite filled). Several calcareous partings from 3.2'-5.75'. Core highly weathered, natural fractures characterized by brown staining.			
	620	C06-2	98	19	0			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Dense, medium brown/grey grading to medium grey, fine grained dolomite. C06-3, occasional horizontal to sub-horizontal carbonaceous partings. C06-4 & C06- 5, numerous sub-horizontal, thin, wavy, argillaceous bands. Several calcite filled vugs.		8:10	
-10											
	615	C06-3	98	46	0					8:15	
-15											
	610	C06-4	95	77	50					8:24	Lost water at bottom of run
-20											
	605	C06-5	95	79	37.5					8:33	
-25											
	600	C06-6	98	96	37.5					8:40	
-30								GOAT ISLAND DOLOMITE-ANCASTER MEMBER:			

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-006B

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GZA Corporation		BORING NO. :	GW03-006B
PROJECT:		SHEET: 2 OF 3	
CLIENT:	NPPWG	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 12.0	TIME	REMARKS
								Medium grey, fine to medium grained dolomite. Several wavy argillaceous bands. Calcite filled vugs and numerous light grey clasts.			
	595	C06-7	100	88	62.5					8:55	
-35								GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Medium grey, medium grained (sucrose texture), dolomite. Occasional calcite filled vugs. Several wavy, discontinous, argillaceous bands.			
	590	C06-8	98	NR	62.5					9:04	
-40											
	585	C06-9	97	82	56.25			GASPORT DOLOMITE-PEKIN MEMBER: Massive, medium grey, fine grained dolomite. Occasional wavy, discontinous, sub-horizontal to horizontal argillaceous bands.		9:11	
-45											
	580	C06-10	100	84	50					NR	
-50								GASPORT DOLOMITE-GOTHIC HILL MEMBER: Massive, light grey, fine grained, mottled dolomite. Numerous (possibly fossiliferous) clasts noted in C06-10,11 & 12. Several thin carbonaceous partings noted in C06-11. Distinct fossil clasts noted in C06-12.			
	575	C06-11	97	76	43.75					9:28	2" fracture 2.5' into core run.
-55											
	570	C06-12	98	NR	43.75					9:40	
-60											
	565	C06-13	NR	NR	50					9:44	
-65											
								DECEW DOLOMITE: Light grey, fine to medium grained, dolomite. Soft dark grey/black shaly			

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-006B

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Corporation	BORING NO. : GW03-006B
PROJECT:	SHEET: 3 OF 3
CLIENT: NPPWG	JOB NO. : 11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 12.0	TIME	REMARKS
	560	C06-14	98	98	50			layers/bands noted in C06-13, 14 &15. Fossil clasts noted from 67.25'-68.4'. Occasional carbonaceous bands/partings. No fossil fragments from 70.2'-73.4'.		9:55	
-70											
	555	C06-15	100	98	43.75					10:03	Water loss possible to fracture 1' from bottom of core.
-75								ROCHESTER SHALE: Medium brownish to dark grey, veryd fine to fine grained calcareous shale. Frequent to occasional light grey thin bands and occasional calcite inclusions.			
	550	C06-16	100	90	50					10:15	
-80											
	545	C06-17	98	98	43.75					10:21	
-85											
	540	C06-18	100	NR	43.75					10:34	
-90											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-006B

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GZA Corporation		BORING NO. :	GW03-007A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 3	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1147724.8	EASTING: 397715.2
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	624.40
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/3/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/16/2003
TOTAL DEPTH DRILLED:	99.70	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: CL: Medium brown/grey, Clay, some silt and gravel.			
-5	620										
-10	615	C07-1	96	78	0			ERAMOSA DOLOMITE-UNIT A: Hard, dark brown/grey, medium to fine grained dolomite. Few carbonaceous stylolite partings, few vugs, some filled with calcite/dolomite.		19:06	Began coring 6/3/03. Lost core bit at 14'.
-15	610	C07-2	100	43	0					9:47	Moved 8' south of original location. Resumed coring 6/20/03.
		C07-3	100	76	0					10:09	
-20	605	C07-4	100	87	0			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Medium hard to hard, dark brownish grey, fine grained, argillaceous (wavy bedding) dolomite. Few black carbonaceous partings. Trace dolomite, galena, calcite, sphalerite and pyrite along breaks. Vert. fract. w/calcite @ 36.3'-37'.	1.1	10:18	
-25	600	C07-5	98	94	0				9.5	10:27	
-30	595	C07-6	100	92	0					10:35	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-007A

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	Corporation	BORING NO. :	GW03-007A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 3	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
									0.1		
	590										
-35		C07-7	98	92	80					10:45	
								GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, light brownish/grey, fine grained dolomite. Few light grey/buff non-calcareous clasts, few carbonaceous partings. Vert. fract. from 36.3'-37.0', calcite filled.	0.4		
	585										
-40		C07-8	100	100	20					10:42	
									0.3		
	580										
-45		C07-9	98	98	0					10:52	
								GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, light browish/grey, fine grained dolomite. No clasts, few stylolites.	0.2		
	575										
-50		C07-10	100	75	10			GASPORT DOLOMITE-PEKIN MEMBER: Hard, light grey, fine grained dolomite. Irregular stylolites, trace pitting. C07-10, pink dolomite crystals and dark grey argillaceous waves (soft) containing pyrite and gypsum. Argillaceous zones in C07-11 & 12.		12:01	
									11.9		
	570										
-55		C07-11	98	96	90					12:13	Lost circulation
									0.0		
	565										
-60		C07-12	100	96	90					12:25	
									0.0		
	560										
-65		C07-13	98	94	90					12:39	
								GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, medium to light grey, medium to coarse grained dolomite. Numerous pits, few empty vugs and crinoid fragments. Vert. fract. w/calcite @ 77.7'-79'.	0.0		
	555										
-70		C07-14	100	100	90					12:56	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-007A

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	Corporation	BORING NO. :	GW03-007A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 3	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
	550								0.0		
-75		C07-15	98	98	90					13:07	
								DECEW DOLOMITE: Hard, dark brown, fine grained, argillaceous dolomite. Few stylolite, black carboneous partings.	0.0		
	545										
-80		C07-16	100	90	90					13:18	
								ROCHESTER SHALE: Medium hard, medium to dark grey, very fine to fine grained carbonaceous shale with argillaceous dolomite zones.	1.5		
	540										
-85		C07-17	96	96	90					13:20	
									0.0		
	535										
-90		C07-18	100	100	45					13:42	
									0.2		
	530										
-95		C07-19	98	93	45					13:55	
	525										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-007A

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GZA Corporation		BORING NO. :	GW03-008A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 3	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1145673.3	EASTING: 398385.6
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	625.80
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/17/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/24/2003
TOTAL DEPTH DRILLED:	109.00	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd/Tim Burmeier
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0	625							OVERBURDEN: ML: Medium brown, sandy Silty Clay.			
-5	620										
-10	615	C08-1	94	48	0			ERAMOSA DOLOMITE-UNIT B: Medium grey, fine grained dolomite. Mostly horizontal, some wavy bedding. Few 1/2"-1" diameter vugs, some gypsum filled. Few stylolites and carbonaceous bands.		14:07	Began coring on 6/17/03.
-15	610	C08-2	78	50	NR					13:15	Resumed coring 6/25/03. Water loss at 20'.
-20	605	C08-3	100	90	NR					14:10	
-25	600	C08-4	96	94	NR					14:23	
-30	595	C08-5	96	82	NR			ERAMOSA DOLOMITE-UNIT A: Grey/brown to medium grey, very fine to fine grained dolomite. Numerous pinpoint vugs, few stylolites. C08-4 core barrel dropped 2" during drilling at 28'. Trace crinoids and few 1" vugs with gypsum and dogtooth dolomite crystals in C08-5.		14:36	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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		BORING NO. :	GW03-008A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 3	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-35	590	C08-6	100	0	NR			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Medium grey/brown, fine grained dolomite. Wavy and irregular dark grey argillaceous partings. Black shale partings and wavy shaly zones in C08-8 & 9. Favositid coral at 54 ft.		NR	
		C08-7	90	55	NR					NR	
-40	585	C08-8	98	98	NR					NR	
-45	580	C08-9	100	100	NR					NR	
-50	575	C08-10	100	92	NR					NR	
-55	570	C08-11	98	98	NR					NR	
-60	565	C08-12	100	98	NR			GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Medium grey/light brown, fine grained dolomite with whitish, non-calcareous rounded nodules.		NR	
-65	560	C08-13	100	100	NR					NR	
-70	555	C08-14	98	86	NR			GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Grey/ brown, fine grained dolomite with thin dark grey partings, some irregular, shaly , and some fine gypsum cystals.		NR	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-008A

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	Corporation	BORING NO. :	GW03-008A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 3	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-75	550	C08-15	100	68	NR			GASPORT DOLOMITE-PEKIN MEMBER: Grey/brown, fine grained dolomite. Several very fine wavy argillaceous zones, crinoid and fossil fragments.		NR	
-80	545	C08-16	98	74	NR					NR	
-85	540	C08-17	90	84	NR					NR	
-90	535	C08-18	100	100	NR			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Dark grey, grading to light brown, argillaceous dolomite. Medium grey, coarse crinoids in C08-17. Black thin shale beds.		NR	
-95	530	C08-19	100	86	NR					NR	
		C08-20	100	96	NR			DECEW DOLOMITE: Medium grey, very fine grained argillaceous dolomite. Some rip-up clasts in C08-19.		NR	
-100	525	C08-21	100	84	NR					NR	
-105	520	C08-22	98	96	NR			ROCHESTER SHALE: Medium grey/brown, very fine to fine grained calcareous shale.		NR	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-008A

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GZA Corporation		BORING NO. :	GW03-009A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1145373.7	EASTING: 396489
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	634.50
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/20/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/15/2003
TOTAL DEPTH DRILLED:	129.00	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: MH: Light brown to medium brown Silty Clay, some yellow mottling, wet at 3.5'.			
	630										
-5		C09-1	100	80	0			ERAMOSA DOLOMITE-UNIT C: Hard, medium grey/ brown to dark brown, very fine to fine grained dolomite. Few carbonaceous partings and several calcite filled vugs. Heavily fractured between 7.7'-8.3'. Core runs C09-2 through C09-4 very fractured.		12:49	Began coring 6/20/03. Borehole made water in this core run.
	625										
-10		C09-2	93	0.09	75					NR	Resumed coring 6/25/03.
	620	C09-3	100	33	75					9:42	
-15											
	615	C09-4	100	46	35					10:00	
-20								ERAMOSA DOLOMITE-UNIT B: Hard, dark brown, fine grained dolomite. Several interconnected vugs/voids, irregular shaped. Vert. fract. @ 24.2'-24.5', 26.1'-26.4', & 26.8'-27.1'. 5° fract. @ 26.8'.			
	610	C09-5	100	87	50					10:12	
-25											
	605	C09-6	100	90	50					10:22	
-30											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-009A

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		BORING NO. :	GW03-009A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-35	600	C09-7	100	100	70					10:31	
-40	595	C09-8	100	82	75			ERAMOSA DOLOMITE-UNIT A: Hard, dark brown, fine grained dolomite, irregular shaped empty vugs. Large soln. cavity between 46'-46.45'.		10:41	
-45	590	C09-9	100	88	60					10:54	
-50	585	C09-10	100	92	50			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, very fine grained dolomite. Few black argillaceous waves. Fracturing along black carbonaceous partings. Few gypsum filled vugs, 1/2"-1" diameter in C09-11 & 12. Gypsum in fract. @ 59'.		11:06	
-55	580	C09-11	100	52	50					11:16	
-60	575	C09-12	100	98	50					11:26	
-65	570	C09-13	100	92	65					11:37	
								GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, brown to light brown, fine grained			

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-009A

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		BORING NO. :	GW03-009A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
								dolomite. Few long hard, fine grained chert clasts.			
-70	565	C09-14	100	100	50					11:49	
-75	560	C09-15	100	93	65			GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, brown to light brown dolomite, no chert clasts.		12:05	
-80	555	C09-16	100	82	70			GASPORT DOLOMITE-PEKIN MEMBER: Hard, brown, fine to medium grained dolomite. Very pitted, few irregular, carbonaceous partings (most breaks along partings). Void between 83'-83.25'. Few 1/4"-1/2" diameter vugs filled with calcite and possible crinoid frag. in C09-17.		12:38	
-85	550	C09-17	100	54	50					12:51	
-90	545	C09-18	100	98	75					13:05	
-95	540	C09-19	100	100	70					13:18	
-100	535	C09-20	100	100	70			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Light brown with dark grey stringers, fine to medium grained dolomite. Trace to several crinoid fossil fragments. Black carbonaceous partings, irregular. Breaks in core along partings.		13:30	
-105	530	C09-21	100	98	50					13:42	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-009A

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	Corporation	BORING NO. :	GW03-009A
PROJECT:	Niagara Power Project Relicensing	SHEET: 4 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-110	525	C09-22	96	96	75			DECEW DOLOMITE: Hard, dark grey very fine grained dolomite. Few black carbonaceous partings.		13:55	
-115	520	C09-23	100	84	100			ROCHESTER SHALE: Dark grey calcareous shale. Interbedded with argillaceous dolomite from 114'-121'. Very broken between 114'-114.9' & 119'-120'.		15:02	
-120	515	C09-24	100	90	100					15:15	
-125	510	C09-25	100	100	50					15:46	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-009A

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Corporation		BORING NO. :	GW03-010A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1142036	EASTING: 395989.2
PROJECT LOCATION:	Lewiston, New York	GROUND ELEVATION:	630.60
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/5/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/28/2003
TOTAL DEPTH DRILLED:	149.00	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0	630							OVERBURDEN: 0.0'-1.0'- Fill material (sub-base for end of road). 1.0'-9.0', reddish brown, Silty Clay, few/trace fine gravel (MH).			
-5	625										
-10	620	C10-1	98	88	NR			ERAMOSA DOLOMITE-UNIT D: Hard, dark brown/grey, fine grained dolomite. Coral fragments throughout cores, sucrose texture, few vugs (some filled with calcite/ sphalerite/dolomite crystals), few black carbonaceous partings.		13:55	Began coring on 6/5/03.
-15	615	C10-2	100	94	0					12:22	Resumed coring on 6/22/03.
-20	610	C10-3	100	100	0				12.4	12:30	
-25	605	C10-4	98	40	100			ERAMOSA DOLOMITE-UNIT C: Hard, dark grey/ brown, fine grained dolomite. Few stylolites, open vugs (1/2"-1"diameter), vertical vugs up to 2" long. Very broken between 26'-29', 31'-32', 32.5'-34', 36.3'-37.4', & 40.8'-41' (w/calcite). Silt seam from 24.1'-24.2'. Voids between 1"-4" diameter @ 34.8'-35', 36'-36.3', 36.8'-37.4'. Near vert. fract. @ 37.4'-37.8'.	12.0	12:38	Lost water at 26.5'.
-30	600	C10-5	96	68	65				13.6	12:49	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-010A

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		BORING NO. :	GW03-010A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-35	595	C10-6	94	32	60				12.6	13:00	
-40	590	C10-7	100	76	85				12.1	13:10	
-45	585	C10-8	94	74	65				13.3	13:20	
-50	580	C10-9	100	100	70				12.7	13:28	
-55	575	C10-10	100	100	80				9.6	13:39	
-60	570	C10-11	100	96	75				9.3	13:59	
-65	565	C10-12	100	85	85				4.7	14:04	
-70	560	C10-13	100	100	80				0.5	14:14	
		C10-14	100	91	60					14:24	

ERAMOSA DOLOMITE-UNIT B: Hard, dark brown/grey, fine grained dolomite. Pitting, vugs (open or filled with calcite/gypsum) and calcite noted along some bedding planes and few stylolites. Very broken between 45.2'-46.1'. Vert. fract. @ 47.3'-47.7'.

ERAMOSA DOLOMITE-UNIT A: Hard, medium grey, very fine grained dolomite. Few gypsum and calcite filled vugs.

GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, dark brown, fine grained dolomite. Wavy, black, argillaceous bedding, few stylolites, small vugs filled with galena/sphalerite. Silt/weathered layer from 77.45'-77.55'. Pink calcite filled vugs 78.1'-78.7'. Large calcite layer 82.6'-82.8'.

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-010A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-75	555								0.0		
-80	550	C10-15	100	80	70				6.8	14:36	
-85	545	C10-16	100	100	75			GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, brown, fine grained dolomite. Few light brown, non-calcareous, irregular shaped, 1/2"-3" diameter, fine grained clasts.	5.5	NR	
-90	540	C10-17	100	94	80				10.2	NR	
-95	535	C10-18	100	86	100			GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, dark brown/grey, fine grained dolomite. Few black stringers (whisps), gypsum/calcite /pyrite filled fractures. Vert. fract. @ 98.7'-99'.	10.8	NR	
-100	530	C10-19	100	95	100			GASPORT DOLOMITE-PEKIN MEMBER: Hard, brown to medium grey, fine grained dolomite. Few calcite filled vugs up to 1"diameter, few stylolites, crinoid stems, and pits. C10-20 grades to medium to coarse grained. Very broken between 109'-111'.	12.1	18:22	
-105	525	C10-20	100	100	100				7.4	19:02	
-110	520	C10-21	98	85	75				13.1	19:12	
-115	515	C10-22	100	100	85					7:38	Resumed coring on 6/24/03.

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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GZA Corporation		BORING NO. :	GW03-010A
PROJECT:	Niagara Power Project Relicensing	SHEET: 4 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
									0.0		
-120	510	C10-23	100	100	75			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown, fine grained dolomite. Few stylolites, few crinoid fragments and white calcite crystals in matrix.	0.0	7:51	
-125	505	C10-24	100	100	100				0.0	8:17	
-130	500	C10-25	100	100	100			DECEW DOLOMITE: Hard to medium hard, olive green to medium grey, fine grained argillaceous dolomite. Few shaly partings/waves.	0.0	8:28	
-135	495	C10-26	100	92	100			ROCHESTER SHALE: Medium hard, dark grey, very fine to fine grained argillaceous dolomite grading to calcareous shale. Few dolomitic seams, medium hard.	0.0	8:53	
-140	490	C10-27	100	100	75				0.0	9:07	
-145	485	C10-28	100	94	75					9:20	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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GZA Corporation		BORING NO. :	GW03-011A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1141170	EASTING: 391139.9
PROJECT LOCATION:	Town of Niagara, New York	GROUND ELEVATION:	617.70
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/6/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	8/21/2003
TOTAL DEPTH DRILLED:	143.00	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: MH: 0-1 foot, crushed gravel (road base material). 1-21.8', Brown to reddish brown, Silty Clay.			
-5	615										
-10	610										
-15	605										
-20	600										
-25	595	C11-1	92	63	NR			ERAMOSA DOLOMITE-UNIT D: Hard, medium brown, fine to medium grained dolomite. Few carbonaceous partings, undulating to planar.		8:30	Began coring on 6/6/03.
-30	590	C11-2	100	26	0			ERAMOSA DOLOMITE-UNIT C: Hard, dark brown, fine grained dolomite. Few stylolites, numerous vugs (angular/irregular shaped), some filled with calcite/sphalerite. C11-4 & 5 very broken and pitted.Coral @ 23.1'-23.7'. Weathered fract. at 29.8', 29.9', & 30.1'. Soln.cavity @ 31'. Large vug 32.8'-32.9'. Vert. fract. @ 36.3', 36.8', 37', 37.5', 37.7', 37.7'-38', 42.15', 42.4', 42.65' & 42.8'. 45° or 30° fract. 34.55'-35', 35.4'-35.8' & 43'.Voids @ 34.6'-35.1',35.8'-36', 38.3'-38.6' & 41-41.8'.		12:25	Resumed coring on 6/24/03.
		C11-3	100	75	0					12:32	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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		BORING NO. :	GW03-011A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
	585										
		C11-4	86	39	100					12:45	Lost water @34.6'.
-35									11.9		
	580										
		C11-5	84	34	100					12:54	
-40									11.4		
	575							ERAMOSA DOLOMITE-UNIT B: Hard, dark brown to brown, fine to medium grained dolomite. Few vugs (open or filled with calcite/sphalerite). Heavy pitting below 47'. Coral fragments from 53.7'-55.3'. Vert. fract. between 50.7'-50.9'. Soln. cavity/vugs filled with gypsum @ 53.5' & 57'. Hollow soln. cavity 55.2'-55.3'. Cores runs C11-7 & 8 very broken.			
		C11-6	100	92	50					13:02	
-45									13.0		
	570										
		C11-7	96	74	65					13:11	
-50									11.6		
	565										
		C11-8	100	70	75					13:21	
-55									5.9		
	560										
		C11-9	98	98	80					13:25	
-60									7.3		
	555							ERAMOSA DOLOMITE-UNIT A: Hard, brown grading to grey, fine grained dolomite. Few gypsum filled vugs, dark grey stringers. Hollow vug 62.3'-62.7'.			
		C11-10	100	100	100					13:48	
-65									0.4		
	550							GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, dark brown, fine grained dolomite. Few dark wavy beds, calcite/galena filled vugs, few stylolites. Gypsum deposits along fract. @ 81.1 '.			
		C11-11	100	100	100					14:10	
-70									7.5		

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	Corporation	BORING NO. :	GW03-011A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
	545										
		C11-12	100	96	125				0.0	14:12	
-75											
	540										
		C11-13	100	96	75				0.0	14:26	
-80											
	535										
		C11-14	100	100	100				0.2	14:36	
-85											
	530							GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, brown to light brown, fine grained dolomite. Few stylolites, few light brown "buff"non-calcareous nodules 1/2"-3" diameter, irregular shaped.			
		C11-15	100	100	50				0.1	14:53	
-90											
	525							GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, dark brown to grey, fine grained dolomite. Few dark stringers, gypsum filled vugs.			
		C11-16	100	98	75				0.2	15:06	
-95											
	520										
		C11-17	100	94	65			GASPORT DOLOMITE-PEKIN MEMBER: Hard, dark brown, fine grained dolomite. Few stylolites, gypsum filled vugs. Vert. fract.@ 108.2'-108.5', 112'. Calcite deposit in fract. @ 106.9'. Medium to coarse grained zones between 111.1-111.6', & 112.8-113.7'. Angled fractures (30° or 5°) @ 109.8', 109.9',110.4',110.7',111', & 113.1'. Weathered fract @111.4-111.6'.	11.5	15:22	
-100											
	515										
		C11-18	98	60	65				10.8	15:33	
-105											
	510										
		C11-19	100	63	75				11.5	15:48	
-110											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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		BORING NO. :	GW03-011A
PROJECT:	Niagara Power Project Relicensing	SHEET: 4 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
	505										
		C11-20	96	79	100					15:52	
-115									11.8		
	500							GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown, fine grained dolomite. Few stylolites, small vugs filled with calcite, crinoid fragments. C11-21 core very pitted. Vert. fract. filled with calcite from 127.7'-128.7'.			
		C11-21	100	100	100					16:30	
-120									0.0		
	495										
		C11-22	100	100	75					16:44	
-125									0.2		
	490							DECEW DOLOMITE: Hard, medium grey, fine grained dolomite. Few argillaceous partings and bands. Vertical fracture from 127'-129.1'. 30° fract. at 129.6'.			
		C11-23	100	91	75					16:54	
-130									0.1		
	485										
		C11-24	100	94	75			ROCHESTER SHALE: Medium hard, dark grey, very fine to fine grained argillaceous dolomite grading to calcareous shale. Few dolomitic seams, few pyrite filled vugs.		17:09	
-135									0.1		
	480										
		C11-25	100	98	75					17:23	
-140											
	475										

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		BORING NO. :	GW03-012A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1142717.5	EASTING: 383378.3
PROJECT LOCATION:	Town of Niagara, New York	GROUND ELEVATION:	622.70
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/6/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/16/2003
TOTAL DEPTH DRILLED:	135.20	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: MH: Dark brown to reddish brown, moist Silty Clay, some organics, trace rock fragments.			
	620										
-5		C12-1	70	62	NR			ERAMOSA DOLOMITE-UNIT D: Hard, light brown/brown to grey brown, fine grained dolomite. High angle (<60°) carbonaceous partings. Void between 8-9'.		12:05	Began coring 6/6/03.
	615										
-10		C12-2	74	28	100					7:38	On 6/12/03,lost water at 12.3'. Missing 12.5'-13' in core.
	610							ERAMOSA DOLOMITE-UNIT C: Hard, brown, fine grained dolomite. Few stylolites, weathered zone @ 11.8'. Void 12.5'-13'. C12-3, very broken core from 17.2'-17.7'. Weathering along fract. @ 16.2'-16.3', 33.7', few vugs (some filled w/calcite/sphalerite/pyrite). 45° fract @ 15.8-15. Calcite along fract. 16.2-16.3'. Bioherm @ 18.5' & 23.3'-25'. Vert. fract. filled w/calcite 22.2-22.6'. Inclined bedding 1/2" thick in C12-4. Contorted/mixed bedding w/sphalerite/calcite @ 25.8', 26.8'-27', 28.7'-29.1'.			
-15		C12-3	96	42	0					8:02	Water return @ 17ft.
	605										
-20		C12-4	98	74	50					9:15	Water return @ 22.5ft.
	600										
-25		C12-5	100	57	100					9:30	
	595										
-30											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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		BORING NO. :	GW03-012A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
		C12-6	100	66	100					9:43	
	590										
-35		C12-7	100	54	75					13:38	
	585							ERAMOSA DOLOMITE-UNIT B: Hard, dark brown, fine grained dolomite. Few stylolites, contorted bedding 36.6'-36.8'. Core very broken between 36.6-37.1', 37.6-37.7' 37.95-38.35', 39.8-40', 45'-46'. Few small vugs, some filled w/ calcite, sphalerite, pitted zone 33'-47'. Vert. fract. w/calcite @ 36.6'-36.8', 37.7'-38.4', 42'-42.6', & 54.5'-54.7'. Weathered fract. @ 54'-55'. C12-11 run from 55'-58' vugs empty, 58'-60' vugs filled w/gypsum and calcite.			
-40		C12-8	100	84	50					13:53	
	580										
-45		C12-9	100	72	75					14:07	
	575										
-50		C12-10	98	82	100					14:57	
	570										
-55		C12-11	100	96	75					15:14	
	565							ERAMOSA DOLOMITE-UNIT A: Hard, medium grey, fine grained dolomite. Few stylolites, gypsum filled vugs, core very pitted. Calcite/dolomite along fract. @ 59'.			
-60		C12-12	100	90	50			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, dark grey to brown, fine grained dolomite. Few gypsum filled vugs, few darker wavy bedding throughout cores. C12-14, calcite and sphalerite filled vugs. Weathered fract. @ 60.4', 60.5', 61.1', 61.2', 61.3', 61.4', & 63.1'.		15:29	
	560										
-65		C12-13	100	84	75					15:42	
	555										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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GZA Corporation		BORING NO. :	GW03-012A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-70		C12-14	98	80	50					16:02	
	550										
-75		C12-15	100	89	50					16:16	
	545										
-80		C12-16	100	94	50					16:38	
	540							GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, light brown/grey, fine grained dolomite. Few small vugs filled with calcite, dolomite, and sphalerite. Weathered fract. @ 88.9'. Calcite in fract. @ 88.9'.			
-85		C12-17	100	62	75					16:59	
	535										
-90		C12-18	100	100	50			GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, dark brown to grey, fine grained dolomite. Few dark stringers throughout core, few stylolites, gypsum filled vugs. C12-19, gypsum 1/16"-1/4" thick along bedding planes.		18:05	Water return @ 91'-92'.
	530										
-95		C12-19	100	78	100					18:20	Water return @ 98'.
	525										
-100		C12-20	100	92	100					18:39	
	520							GASPORT DOLOMITE-PEKIN MEMBER: Hard, dark brown, fine grained dolomite. Few stylolites, crinoid fragments (stems) and pits throughout cores.			
-105											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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GZA Corporation		BORING NO. :	GW03-012A
PROJECT:	Niagara Power Project Relicensing	SHEET: 4 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
		C12-21	100	94	125					18:55	
	515										
-110		C12-22	100	78	100					7:56	Resumed coring on 6/13/03.
	510							GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown, medium to coarse grained, dolomite. Few stylolites, some crinoid stems.			
-115		C12-23	104	67	150					9:10	
	505										
-120		C12-24	100	69	150					10:22	
	500							DECEW DOLOMITE: Hard to medium hard, olive green to medium grey, fine grained dolomite. Few shaly partings. Gypsum in fract. @ 124.1' & 124.25'.			
-125		C12-25	100	64	175					10:56	
	495										
-130		C12-26	89	39	200			ROCHESTER SHALE: Medium hard, dark grey, very fine to fine grained, argillaceous dolomite grading to cabonaceous shale. Few dolomitic seams.		11:28	
	490										
-135											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-013A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1137964.6	EASTING: 384524
PROJECT LOCATION:	Town of Niagara, New York	GROUND ELEVATION:	599.50
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/2/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/30/2003
TOTAL DEPTH DRILLED:	135.00	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: MH: Brown Silty Clay with rounded gravel.			
-5	595										
-10	590										
-15	585										
-20	580	C13-1	94	77	NR			ERAMOSA DOLOMITE-UNIT D: Dark grey, fine grained dolomite. Vuggy from 22.75'-23' and 23.3'-23.5'.		9:36	Began coring on 6/3/03.
-25	575	C13-2	96	12	0			ERAMOSA DOLOMITE-UNIT C: Hard, dark brown/grey, fine grained dolomite. Few stylolites, few calcite filled vugs, few cross-bedded zones. Vert. fract. @ 24.5'-27' filled with calcite/galena.		14:18	Resumed coring on 6/9/03.
		C13-3	100	83	300					18:40	Core barrel block @ 20', overdrilled, lost 300 gal. @ 28' during over drill.
-30	570										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-013A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
		C13-4	100	70	0					14:46	Roller bit drilled to 32.5'.
-35	565	C13-5	98	63	20			ERAMOSA DOLOMITE-UNIT B: Hard, dark grey/brown, fine to medium grained dolomite. Few vugs filled w/calcite & galena, few stylolites. Vert. fract. 36-37', 43.5'-44', & 46.9'-47.6' w/calcite deposition. Weathered fract. @ 33.8', 34.2', 34.5', 35', 35.3'.	9.6	14:54	
-40	560	C13-6	98	48	20				12.5	15:28	
-45	555	C13-7	100	76	10				8.1	15:46	
-50	550	C13-8	98	82	0				7.7	16:30	
-55	545	C13-9	100	95	10			ERAMOSA DOLOMITE-UNIT A: Hard, grey/brown, fine grained dolomite. Few stylolites, some pitting and small to large size vugs, some filled with calcite/dolomite/sphalerite.	2.7	16:42	Change in water color @ 56 ft.
-60	540	C13-10	100	82	0			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, dark brown, fine grained dolomite. Few darker wavy bedding, few stylolites, few vugs (some filled w/calcite). Weathered fract. @ 70'-71', 77.8', 78.2', & 78.4'. Medium grained starting @ 71'.	0.1	16:54	
-65	535	C13-11	98	98	0				11.4	17:06	
-70	530	C13-12	96	64	20					17:21	Water loss @ 73.5'.

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-013A

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	Corporation	BORING NO. :	GW03-013A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
									0.6		
-75	525	C13-13	100	92	200				10.4	18:00	Drop in core barrel @ 77-77.5ft.
-80	520	C13-14	100	96	180			GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, brown, fine grained dolomite. Few light brown non-calcareous nodules up to 2" diameter, mostly irregular shaped. Few gypsum filled vugs.	1.1	8:13	Resumed coring on 6/11/03.
-85	515	C13-15	100	96	200			GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, dark brown/grey, fined grained dolomite. Few calcite/gypsum filled vugs, few black argillaceous partings.	10.0	8:36	
-90	510	C13-16	100	92	120				0.0	8:53	
-95	505	C13-17	100	96	120				0.0	9:21	
-100	500	C13-18	100	80	120			GASPORT DOLOMITE-PEKIN MEMBER: Hard, dark grey grading to medium grey, very fine grained dolomite. Few stylolites, and crinoid stems, few black carbonaceous partings. Coarse grained layers @ 102.0', 102.4', 103.4'.	0.0	9:39	
-105	495	C13-19	96	68	120				0.0	10:18	
-110	490	C13-20	100	98	100					10:50	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-013A

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	Corporation	BORING NO. :	GW03-013A
PROJECT:	Niagara Power Project Relicensing	SHEET: 4 OF 4	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
									0.0		
-115	485	C13-21	100	72	100			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown, fine to medium grained (sucrosic texture) dolomite. Some crinoid stems.	0.0	11:21	
-120	480	C13-22	100	79	100				0.0	11:44	Possible artesian zone.
-125	475	C13-23	100	72	50			DECEW DOLOMITE: Hard, medium grey, fine grained argillaceous dolomite. Few shaly partings. Hard silt layer @ 128.8'-128.9'. 30° gypsum filled fract. @ 130', 5° gypsum filled fract. @ 130.3'.	0.0	12:06	
-130	470	C13-24	100	31	50					12:23	Reamed from 131.7'-135.0'.
-135	465							ROCHESTER SHALE: Medium hard, dark grey, very fine to fine grained argillaceous dolomite/calcareous shale.			

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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		BORING NO. :	GW03-014A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1132067.5	EASTING: 385243.7
PROJECT LOCATION:	Niagara Falls, New York	GROUND ELEVATION:	585.10
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/9/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	7/31/2003
TOTAL DEPTH DRILLED:	163.50	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0	585							OVERBURDEN: MH: Medium brown, Silty Clay, with rounded to sub-rounded limestone fragments.			
-5	580										
-10	575										
-15	570										
-20	565										
		C14-1	76	65	NR			ERAMOSA DOLOMITE-UNIT D: Hard, medium grey to medium brown, fine grained dolomite.		13:41	Began coring 6/9/03.
-25	560										
		C14-2	100	98	0			ERAMOSA DOLOMITE-UNIT C: Hard, dark brown, fine grained dolomite. Few vugs (some filled with calcite/spahlerite). Few black carbonaceous partings and some calcite deposits along		14:06	Resumed coring 7/7/03.
-30	555										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-014A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
								weathered fractures. Cores very broken between 36.8'-38', 40.8'-42' & 47.25'-48.5'. Very vuggy from 36.2'-36.8'. Vert. fract with sphalarite/galena @ 39.7'-40.1'. 45° fract.@ 30.6'.			
		C14-3	100	100	0					14:18	
		C14-4	90	72	60					14:21	Lost water starting at 36 ft.
-35	550										
		C14-5	86	28	100					14:37	
-40	545										
		C14-6	100	73	100					14:57	
-45	540										
		C14-7	94	72	115					15:12	
-50	535							ERAMOSA DOLOMITE-UNIT B: Hard, dark brown, very fine grained dolomite. Few stylolites and carbonaceous partings. Few vugs (some filled with gypsum), some pits. Very broken between 50.1'-50.75', and 52.1'-52.5'.			
		C14-8	100	86	125					15:21	
-55	530										
		C14-9	100	100	100					15:31	
-60	525										
		C14-10	100	94	100					15:39	
-65	520										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-014A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
		C14-11	98	92	125					15:50	
-70	515										
								ERAMOSA DOLOMITE-UNIT A: Hard, medium grey, fine grained dolomite. Few calcite filled vugs.			
		C14-12	100	76	100					16:06	
-75	510										
								GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, dark brown, very fine grained dolomite. Few darker wavy beds throughout cores. Few gypsum and galena filled vugs, few black carbonaceous partings. Weathered fract. @ 87.8'-88'.			
		C14-13	98	93	75					16:20	
-80	505										
		C14-14	100	96	100					16:32	
-85	500										
		C14-15	100	100	75					16:45	
-90	495										
		C14-16	100	100	80					16:54	
-95	490							GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, brown, fine grained dolomite. Few stylolites, few light brown, hard, non-calcareous nodules.			
		C14-17	98	72	125					17:08	
-100	485										
		C14-18	100	82	125			GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, dark brown/grey, fine grained dolomite. Few darker stringers throughout cores. Few		17:55	
-105	480										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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Corporation	BORING NO. : GW03-014A
PROJECT: Niagara Power Project Relicensing	SHEET: 4 OF 5
CLIENT: New York Power Authority	JOB NO. : 11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
								vugs, some filled with calcite and sphalerite. 15° fract. @ 104.2'.			
		C14-19	100	100	150					18:09	
-110	475										
		C14-20	100	96	100			GASPORT DOLOMITE-PEKIN MEMBER: Hard, dark brown, fine grained dolomite. Few carbonaceous partings, few coarser grained partings approximately 1" thick throughout cores. Gypsum along fract. @ 120.2'-120.45'.		18:20	
-115	470										
		C14-21	100	100	75					18:48	
-120	465										
		C14-22	100	95	125					7:29	Resumed coring 7/8/03.
-125	460										
		C14-23	100	100	100			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown, fine to coarse grained dolomite. Few calcite filled pits, few dark grey stringers and stylolites, few crinoid stem fragments.		7:49	
-130	455										
		C14-24	100	100	130					8:02	
-135	450										
		C14-25	98	90	100					8:20	
-140	445							DECEW DOLOMITE: Hard, medium grey, fine grained dolomite. Few shaly nodules (dark grey), few shaly partings. Vertical fract. between 148'-148.5'.			

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-014A
PROJECT:	Niagara Power Project Relicensing	SHEET: 5 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
		C14-26	100	72	100					8:32	
-145	440										
		C14-27	96	90	125			ROCHESTER SHALE: Hard to medium hard, dark grey, very to fine grained argillaceous dolomite grading to calcareous shale with dolomite seams. Few pyrite filled vugs. Core very broken @ 163'.		8:48	
-150	435										
		C14-28	100	100	125					9:19	
-155	430										
		C14-29	100	92	125					10:44	
-160	425										

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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GZA Corporation		BORING NO. :	GW03-015A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1129033.9	EASTING: 384948.1
PROJECT LOCATION:	Niagara Falls, New York	GROUND ELEVATION:	580.40
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/4/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	8/5/2003
TOTAL DEPTH DRILLED:	159.60	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0	580							OVERBURDEN: MH: Brown Silty Clay.			
-5	575							OVERBURDEN: Dolomite gravel, cobbles, and boulders (Fill).			
-10	570										
-15	565										
-20	560										
-25	555										
-30											

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-015A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
	550										
-35	545										
-40	540	C15-1	96	38	NR			ERAMOSA DOLOMITE-UNIT D: Hard, dark grey, fine grained dolomite.		17:30	Began coring 6/5/03.
-45	535	C15-2	100	69	10			ERAMOSA DOLOMITE-UNIT C: Hard, dark brown, fine to medium grained dolomite. Few stylolites, few small vugs (some filled with calcite/sphalerite). Outside of cores very pitted. Core very broken between 46.6'-47.1'. Vertical fract. with calcite @ 49.6'-50.2'. weathered fract. @ 48.9', 49.6', & 59.6'.		16:08	Resumed coring 6/17/03. Water loss at 49'.
-50	530	C15-3	92	92	60				12.2	16:21	
-55	525	C15-4	100	100	70				0.1	16:30	
-60	520	C15-5	100	76	80				13.2	16:38	
-65	515	C15-6	100	96	85			ERAMOSA DOLOMITE-UNIT B: Hard, dark brown, fine grained dolomite. Few small vugs (some filled with gypsum/sphalerite), few stylolites. Core run very broken between 62.7-'63.9'. Weathered fract. @ 73.5'.	2.9	16:49	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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Corporation	BORING NO. : GW03-015A
PROJECT: Niagara Power Project Relicensing	SHEET: 3 OF 5
CLIENT: New York Power Authority	JOB NO. : 11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-70	510	C15-7	100	100	80				4.0	16:59	
-75	505	C15-8	100	82	75			ERAMOSA DOLOMITE-UNIT A: Hard, medium grey, very fine grained dolomite. Calcite along fract. @ 74.6'-77.9'.	12.4	17:08	
-80	500	C15-9	100	100	85			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, dark brown/grey, fine grained dolomite. Few carbonaceous partings, and vugs filled with gypsum. Gypsum deposits 1/16"-1/8" along some bedding planes and fractures (i.e., 90.5', 91', 91.6', 93.3', 93.9', & 94.2').	12.5	17:23	
-85	495	C15-10	100	80	100				11.8	17:36	
-90	490	C15-11	100	94	100				0.3	17:50	
-95	485	C15-12	100	100	70			GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, brown, fine grained dolomite. Few stylolites, and carbonaceous partings. Few light brown, fine grained, non-calcareous nodules. Vert. fract. @ 99.2'-99.6', with calcite crystals.	0.0	18:01	
-100	480	C15-13	100	100	90				13.8	18:10	
-105		C15-14	100	98	50					7:50	Resumed coring

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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Corporation	BORING NO. : GW03-015A
PROJECT: Niagara Power Project Relicensing	SHEET: 4 OF 5
CLIENT: New York Power Authority	JOB NO. : 11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
	475										6/19/03.
								GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, brown, fine grained dolomite. Few vugs (some filled with gypsum/calcite).	0.1		
-110	470	C15-15	100	100	50			GASPORT DOLOMITE-PEKIN MEMBER: Hard, brown to dark brown, fine grained dolomite. Few vugs, some filled with gypsum/calcite, few stylolites. Vert. fract. @ 119.2'-119.6'.	0.0	8:02	
-115	465	C15-16	100	80	90				0.9	8:12	
-120	460	C15-17	100	90	90				0.1	8:24	
								GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown, fine to medium grained dolomite. Few dark stringers, few to some crinoid stem fragments, few stylolites.			
-125	455	C15-18	98	90	90				0.2	8:46	
-130	450	C15-19	100	100	110				0.0	9:01	
-135	445	C15-20	100	100	70				0.1	8:15	
-140	440	C15-21	100	100	45					16:06	
								DECEW DOLOMITE: Hard, dark brown/grey, fine grained dolomite. Few carbonaceous partings. 15° fract. @ 145.9' & 147.3'. Weathered fract. @ 148.2', gypsum along fract. @ 148.5', 149.3', &	0.0		

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-015A
PROJECT:	Niagara Power Project Relicensing	SHEET: 5 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
								150.4'.			
-145	435	C15-22	100	83	90				0.2	16:18	
-150	430	C15-23	100	96	90			ROCHESTER SHALE: Hard to medium hard, dark grey, very fine to fine grained argillaceous dolomite grading to calcareous shale with dolomite seams. Few pyrite filled vugs.	0.0	16:31	
-155	425	C15-24	100	70	90					16:43	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-016A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1125189.74	EASTING: 384494.8
PROJECT LOCATION:	Niagara Falls, New York	GROUND ELEVATION:	569.50
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/11/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	8/5/2003
TOTAL DEPTH DRILLED:	164.70	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: MH: Light grey to tan Silty Clay, some yellow/brown mottling.			
-5	565										
-10	560										
		C16-1	100	52	0			GUELPH DOLOMITE: Medium hard, greyish brown/brown, fine to medium grained dolomite. Drop in rods noted while drilling, corresponding void noted at 14.8'-15.38'. Calcite in fract. @ 16.26', & 16.35'.		14:13	Water entered borhole during coring on 6/11/03.
-15	555										
		C16-2	90	66	100			ERAMOSA DOLOMITE-UNIT F: Hard, dark brown, fine to medium grained dolomite. Few stylolites, few gypsum filled vugs. Vert. fract. at 18.95'-19.2' and 20.3'-21'. Weathering along fract. at 18.6', 18.75', 18.9', 21.2', 22.3'-22.7', and 24.7'. Calcite in fract. @ 23.5'. Very broken between 26.4'-26.5'. Void from 26.4'-26.7'.		9:05	Lost water return 2'-3' into run, void 4.7'-5' into run.
-20	550										
		C16-3	96	80	20					9:20	Resumed coring on 6/17/03.
-25	545	C16-4	96	86	50				10.2	9:31	
								ERAMOSA DOLOMITE-UNIT E: Hard, dark brown, fine grained dolomite. Few gypsum filled vugs.			
-30	540							ERAMOSA DOLOMITE-UNIT D: Hard, dark brown,			

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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	Corporation	BORING NO. :	GW03-016A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
		C16-5	100	89	75			fine grained dolomite. Gypsum in fract. @ 29.9'-31.1', 30.4'-30.5'. Weathering along fract. @ 33', & 33.3'-33.4'. Vert. fract. @ 34.7'-35.2', 37.9'-38.3', 44.3'-44.7'. Core very broken between 42'-42.5'.	9.2	9:43	
	535										
-35		C16-6	94	68	60				9.3	9:56	
	530										
-40		C16-7	100	82	75				8.9	10:09	
	525										
-45		C16-8	100	100	85				9.8	10:24	
								ERAMOSA DOLOMITE-UNIT C: Hard, brown, fine to medium grained dolomite. Few dark grey stringers throughout cores, few stylolites, few pits and vugs (some filled with gypsum). Weathered fract. w/gypsum @ 58.7'-58.8', 60.7', 65.4', 65.8', & 66'.			
	520										
-50		C16-9	100	100	65				0.9	10:31	
	515										
-55		C16-10	100	100	75				0.0	10:43	
	510										
-60		C16-11	100	100	50				9.2	10:52	
	505										
-65		C16-12	100	72	65				11.2	11:01	Void during run @ 2.4'-2.7' into run.
								ERAMOSA DOLOMITE-UNIT B: Hard, dark brown/grey, fine grained dolomite. Few dark grey stringers, few carbonaceous partings, and			

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

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BORING NO. : GW03-016A

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Corporation	BORING NO. : GW03-016A
PROJECT: Niagara Power Project Relicensing	SHEET: 3 OF 5
CLIENT: New York Power Authority	JOB NO. : 11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
								stylolites. Core very broken between 65.8'-66.9'.			
-70	500	C16-13	100	100	75				12.3	11:10	
-75	495	C16-14	100	94	75			ERAMOSA DOLOMITE-UNIT A: Hard, medium grey, fine grained dolomite.	0.2	11:19	
-80	490	C16-15	100	88	90			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, dark brown/grey, fine grained dolomite. Few dark grey wavy beds throughout core. Few carbonaceous partings, few small vugs (some filled with gypsum/sphalerite), few coarse grained seams thoughout cores. 5° fract. @ 82.5' & 82.7'.	13.4	11:28	
-85	485	C16-16	98	63	100				7.9	11:40	
-90	480	C16-17	100	81	75				15.8	11:59	
-95	475	C16-18	100	94	75				13.2	13:25	
-100	470	C16-19	96	96	70			GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, brown, fine grained dolomite. Few dark grey stringers throughout cores. Few light brown, fine grained, hard, non-calcareous nodules. Very broken between 104'-105.3'. Weathered fract. @ 108.45'-108.5'. Calcite in fract. @ 113.7', 114.4', & 114.7'. Vert. fract. @ 109.3'-109.7'. 60° fract. @ 105.9' & 107.2'., 45° fract. @ 106.8' 106.9'.	5.9	13:37	
-105	465	C16-20	96	88	75					13:47	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-016A

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	Corporation	BORING NO. :	GW03-016A
PROJECT:	Niagara Power Project Relicensing	SHEET: 4 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-110	460	C16-21	100	100	80				8.5	13:59	
-115	455	C16-22	100	74	115			GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, dark brown/grey, fine grained dolomite. Few crinoid fragments, gypsum filled vugs. Very broken between 116.7'-117.1' & 121.7'-122.7'. Void @ 121.7'-122.4'. Weathered fract. with gypsum @ 117.7'.	12.2	14:10	
-120	450	C16-23	88	58	110				12.2	14:28	
-125	445	C16-24	98	82	100			GASPORT DOLOMITE-PEKIN MEMBER: Hard, dark brown, very fine grained dolomite. Few small vugs filled with calcite. Few carbonaceous partings. Very broken between 123'-124.7'. Weathered fract. @ 125.5', 126', 126.2', 126.5', 127.8', 128.6', & 129'.	13.3	14:42	
-130	440	C16-25	100	56	100				11.0	14:57	
-135	435	C16-26	100	77	75			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown, fine to medium grained dolomite. Few black stringers, few stylolites, few crinoid stem fragments and carbonaceous partings. Weathered fract. at 132.5', 133.7', 142.5', & 142.7'. 5° fract. @ 135.75', 140.5', 140.7', 141.2', & 142.5'. 45° fract. 137.8'. Calcite in fract. @ 148.3'.	16.8	15:10	
-140	430	C16-27	100	88	75				15.8	15:22	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-016A

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	Corporation	BORING NO. :	GW03-016A
PROJECT:	Niagara Power Project Relicensing	SHEET: 5 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-145	425	C16-28	100	100	75				0.0	15:51	
-150	420	C16-29	100	74	75			DECEW DOLOMITE: Hard, dark brown/grey, fine grained dolomite. Few shaly partings, few crinoid fragments. Core very broken from 159.7'-160'.	0.0	16:05	
-155	415	C16-30	100	100	75				0.1	16:41	
-160	410	C16-31	100	74	NR			ROCHESTER SHALE: Medium hard, dark grey, very fine to fine grained argillaceous dolomite grading to calcareous shale with dolomite seams.	3.0	16:59	
	405								1.5		

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-016A

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	Corporation	BORING NO. :	GW03-017A
PROJECT:	Niagara Power Project Relicensing	SHEET: 1 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006
BORING CONTRACTOR:	American Auger & Ditching Co., Inc.	NORTHING: 1122542.2	EASTING: 384198.2
PROJECT LOCATION:	Niagara Falls, New York	GROUND ELEVATION:	569.30
DRILLING METHOD:	NQ Core/8" Air Hammer	DATE STARTED:	6/12/2003
DRILL BIT SIZE/TYPE:	NQ Core/8" Air Hammer	DATE FINISHED:	8/6/2003
TOTAL DEPTH DRILLED:	183.70	DRILLER:	Rocky Baye
DRILL RIG TYPE:	Versa Drill 2002	GEOLOGIST:	John Boyd/Scott McCabe
		REVIEWED BY:	T. Burmeier

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.0 (GPM) 17.0	TIME	REMARKS
0								OVERBURDEN: MH/GM:Gravel (Limestone and Dolomite), Fill (building debris), silt and clay.			
-5	565										
-10	560										
-15	555										
-20	550										
		C17-1	100	75	NR			GUELPH DOLOMITE: Hard, medium grey to dark brown, fine to medium grained dolomite. Several vugs and pits noted. Carbonaceous partings at angles of 15 to 35 degrees from horizontal from 21.5-23.5 ft then becoming horizontal. Some gypsum observed along bedding planes. Gypsum along fract. @ 28.7', 28.9', 29.25', 29.6', & 30.55'.		13:49	Began coring 6/16/03.
-25	545										
		C17-2	70	48	50					9:05	Resumed coring 7/1/03.
-30	540	C17-3	100	79	50					9:15	Water return approx. 33 ft.

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-017A

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Corporation		BORING NO. :	GW03-017A
PROJECT:	Niagara Power Project Relicensing	SHEET: 2 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-35	535	C17-4	100	90	75			ERAMOSA DOLOMITE-UNIT F: Hard, dark brown, fine grained dolomite. Few vugs (1/4"-1/2" diameter), some filled with gypsum or sphalerite. Coral fragments @ 36.9 ', 42-42.3'. C17-5 very broken between 42'-42.2'. Vert. fract. @ 38.7'-39', 46.6'-48'.	8.1	9:33	
-40	530	C17-5	92	86	75				10.2	9:31	
-45	525	C17-6	100	74	50			ERAMOSA DOLOMITE-UNIT E: Hard, brown, fine to medium grained dolomite. Some coral in C17-6. Vert. fract. @ 46.6'-48'.	0.8	9:40	
-50	520	C17-7	100	60	50			ERAMOSA DOLOMITE-UNIT D: Hard, dark brown/grey, fine grained dolomite. Numerous vugs (1/4"-1/2" diameter) and coral fragments. Some vugs filled with calcite, dolomite or sphalerite. C17-7 core very broken with numerous fractures. Black carbonaceous partings and gypsum filled between 53.7'-55'. Vert. fract. @ 55.6'-56'.	4.3	9:47	
-55	515	C17-8	100	60	75				9.0	10:51	
-60	510	C17-9	100	93	80			ERAMOSA DOLOMITE-UNIT C: Hard, dark brown, fine grained dolomite. Few small vugs and stylolites. Some vugs filled with calcite/gypsum. Coral layer at 75.6'. Fract. @ 60' very weathered, crystals in fract. @ 63.7'.	11.1	11:00	
-65	505	C17-10	100	100	90				0.5	11:14	
-70	500	C17-11	100	100	65				0.5	11:23	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-017A

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	Corporation	BORING NO. :	GW03-017A
PROJECT:	Niagara Power Project Relicensing	SHEET: 3 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-75	495	C17-12	100	96	65				0.5	11:31	
-80	490	C17-13	96	74	65				11.5	11:31	
-85	485	C17-14	100	100	90			ERAMOSA DOLOMITE-UNIT B: Hard, dark brown/grey, very fine grained dolomite. Few vugs, 1/4"-1/2" diameter, some filled with gypsum/sphalerite/calcite. Few black stylolites.	0.3	11:39	
-90	480	C17-15	100	100	85				0.4	11:47	
-95	475	C17-16	100	96	75				7.4	11:57	
-100	470	C17-17	100	86	115			ERAMOSA DOLOMITE-UNIT A: Hard, medium grey, very fine grained dolomite. Gypsum filled vugs and some pitting. Weathered fract. zones @ 99.4'-99.45', 99.75'-99.8', & 100.3'-100.4'.	11.8	12:07	
-105	465	C17-18	100	84	100			GOAT ISLAND DOLOMITE-VINEMOUNT MEMBER: Hard, dark brown, fine grained dolomite. Few gypsum filled vugs, wavy, argillaceous bedding. C17-18, trace crinoid (calcite) fragment, and 1" thick band of coarse grained calcite ooliths. Large coral fragment 116'-116.4'. Weathered fract. zones @ 103.7'-103.9', 106.4'-106.7', 107.4'-107.5',& 109.3'. Calcite along fract. @ 108.1'-108.2', 110'-110.1'.	2.4	12:18	
-110	460	C17-19	100	100	125				0.2	13:31	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-017A

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		BORING NO. :	GW03-017A
PROJECT:	Niagara Power Project Relicensing	SHEET: 4 OF 5	
CLIENT:	New York Power Authority	JOB NO. :	11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-115	455	C17-20	100	94	110				0.3	13:42	Slow drill rate on C17-20.
-120	450	C17-21	100	100	100			GOAT ISLAND DOLOMITE-ANCASTER MEMBER: Hard, brown, fine to medium grained dolomite. Few stylolites, small gypsum filled vugs. Numerous light brown, non calcareous (chert) clasts 1/2"-3" in diameter, irregular shaped. Weathered fract. @ 120.85', 121.2', & 122.6'.	0.4	13:57	
-125	445	C17-22	100	100	100				1.0	14:13	
-130	440	C17-23	96	34	100			GOAT ISLAND DOLOMITE-N. FALLS MEMBER: Hard, dark brown/grey, fine grained dolomite. Few black stringers on outside of core. Trace small vugs, filled with gypsum/sphalerite. Some coral fragments and weathering along fractures. C17-23 core very broken and all fract. are weathered.	11.8	16:32	
-135	435	C17-24	100	96	110			GASPORT DOLOMITE-PEKIN MEMBER: Hard, dark brown, fine grained dolomite. Few stylolites, small vugs filled with sphalerite.	0.1	16:42	
-140	430	C17-25	100	96	100				0.1	11:34	Resumed coring 7/2/03.
-145	425	C17-26	100	100	100				0.4	11:46	
	420	C17-27	100	100	115			GASPORT DOLOMITE-GOTHIC HILL MEMBER: Hard, brown, fine to medium grained dolomite.	0.1	12:45	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-017A

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Corporation	BORING NO. : GW03-017A
PROJECT: Niagara Power Project Relicensing	SHEET: 5 OF 5
CLIENT: New York Power Authority	JOB NO. : 11171932.00006

DEPTH FEET	ELEV	CORE NO.	REC %	RQD %	WATER LOSS (gal)	FRAC LOG	LOG	GEOLOGICAL DESCRIPTION	PACKER TEST 0.00 (GPM) 17.0	TIME	REMARKS
-150								Few black carbonaceous wavy partings. Some white calcite crystals in matrix. Small vugs, some filled with calcite/pyrite/sphalerite. C17-29, few crinoid fragments, becoming argillaceous at 163'. Weathered fract. @ 162.3', 162.7', & 163'.			
-155	415	C17-28	100	100	100				0.0	12:58	
-160	410	C17-29	100	82	100				0.8	13:11	
-165	405	C17-30	100	91	125			DECEW DOLOMITE: Hard, dark brown/grey, fine grained dolomite. Few shaly partings 1/4"-1/8" thick. Vert. fract. with calcite @ 172.4'-173.2', gypsum filled fract. @ 171.5'.	0.0	13:26	
-170	400	C17-31	100	100	125				0.1	13:41	
-175	395	C17-32	96	94	100			ROCHESTER SHALE: Medium hard, dark grey, very fine to fine argillaceous dolomite/calcarious shale, with shaly beds grading to shale with few dolomite seams.	0.1	13:58	
-180	390	C17-33	100	100	100					14:34	

COMMENTS: Elevation is in United States Lake Survey Datum (1935).

New York Power Authority

BORING NO. : GW03-017A

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APPENDIX C

PIEZOMETER CONSTRUCTION DIAGRAMS

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

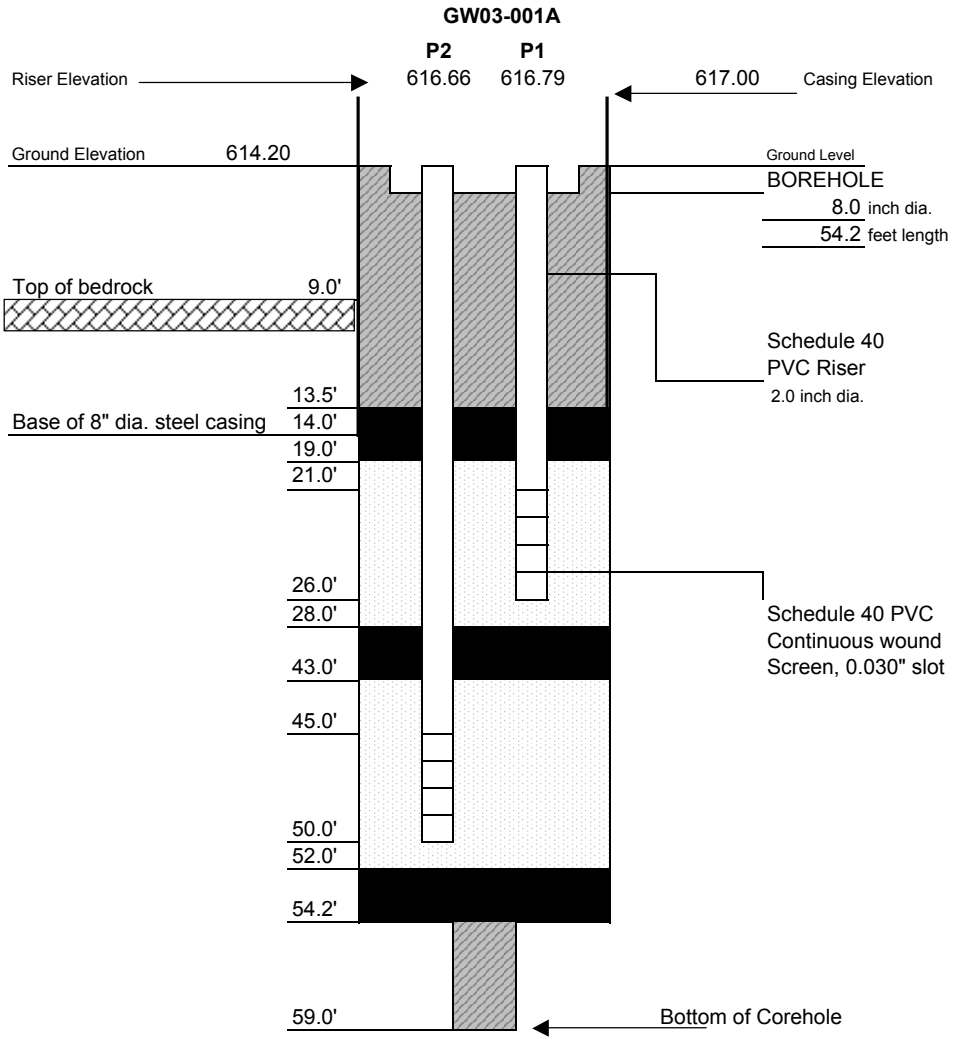
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/9/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
5.78	8/22/03	P1
46.95	8/22/03	P2
6.17	10/02/03	P1
8.55	10/02/03	P2
3.30	12/08/03	P1
5.53	12/08/03	P2

D E P T H



WELL DESIGN

CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand *SEAL MATERIAL* Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-001A P1, P2

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

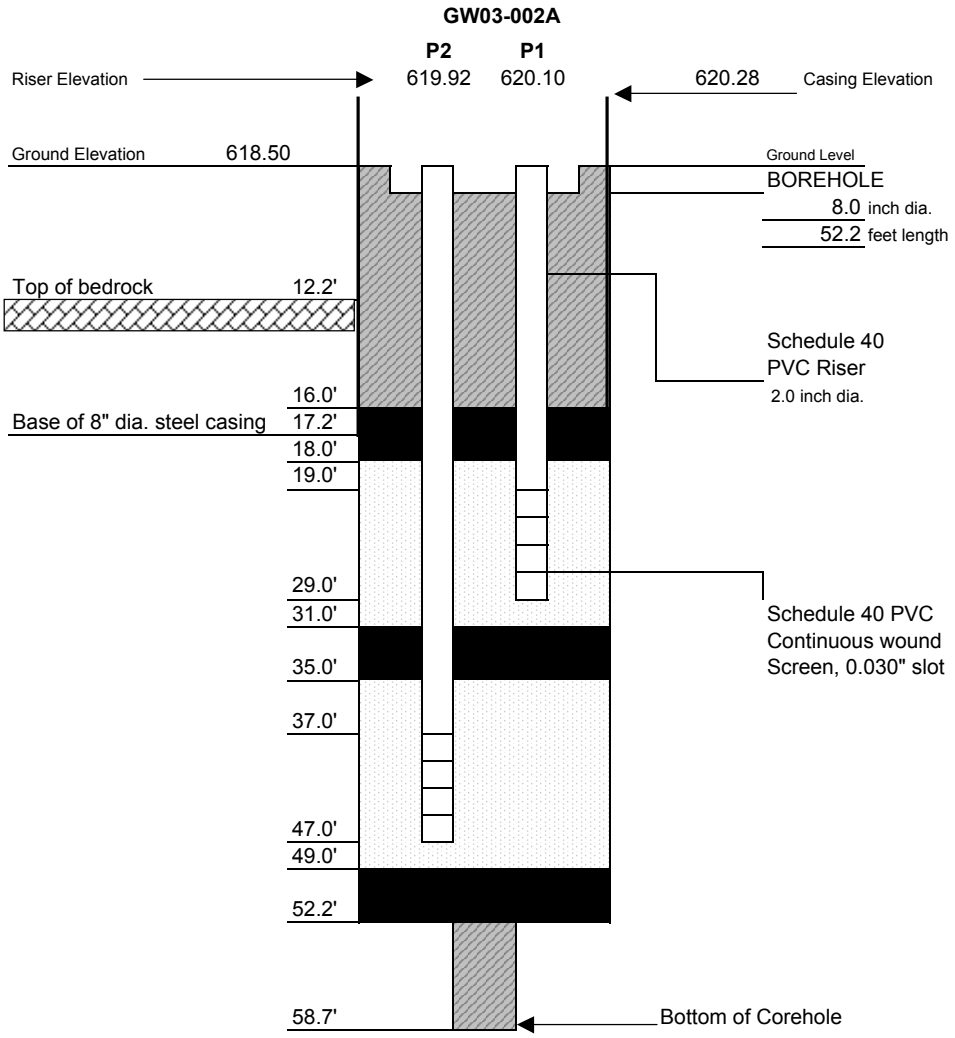
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/10/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
8.74	8/22/03	P1
43.44	8/22/03	P2
9.30	10/06/03	P1
43.16	10/6/03	P2
6.30	12/9/03	P1
43.16	12/11/03	P2

D E P T H



WELL DESIGN

CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand *SEAL MATERIAL* Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-002A P1, P2

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

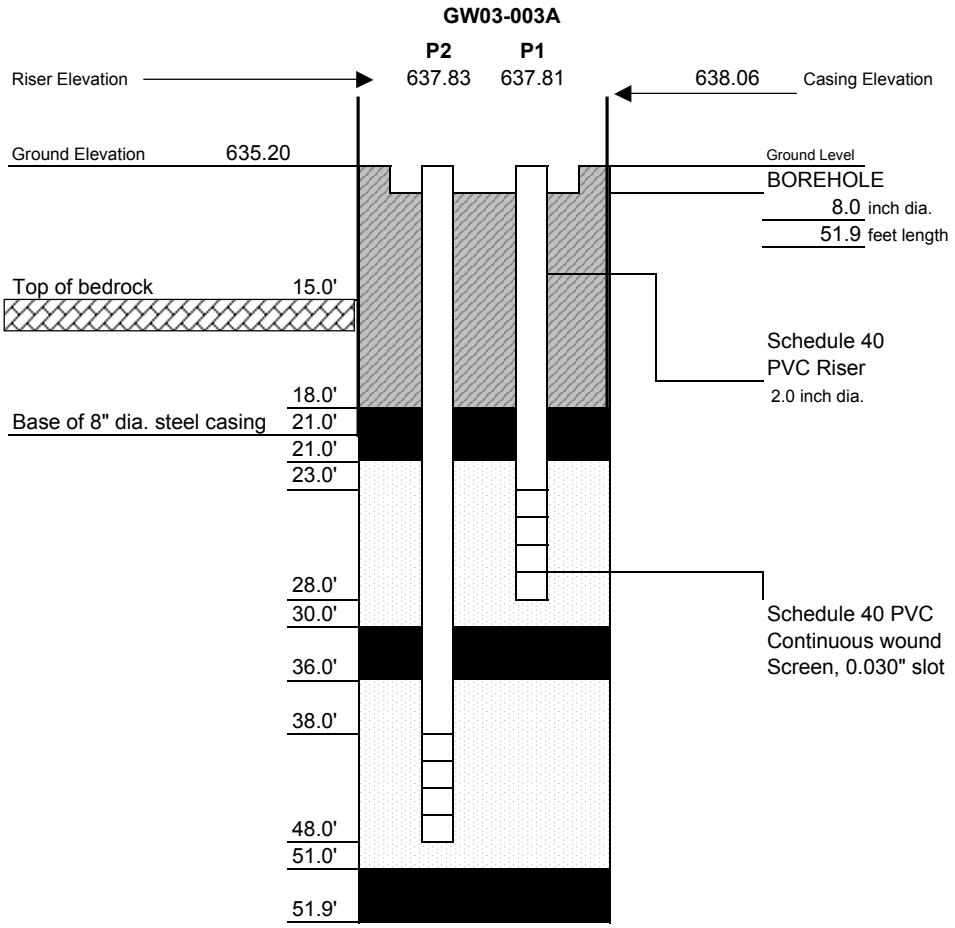
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/9/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
12.91	8/24/03	P1
13.03	8/24/03	P2
14.15	9/26/03	P1
14.25	9/26/03	P2
9.42	12/2/03	P1
9.65	12/2/03	P2

D E P T H



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-003A P1, P2

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

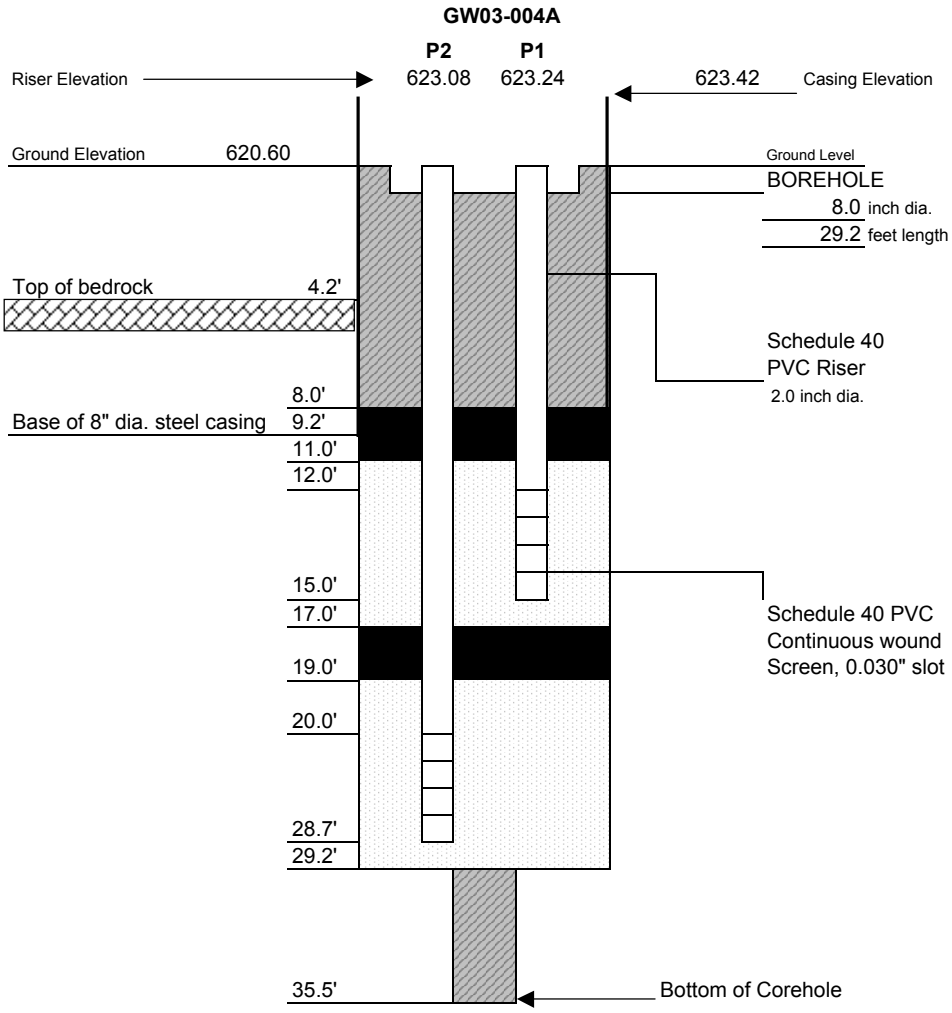
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/9/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
8.80	8/24/03	P1
11.65	8/24/03	P2
9	9/26/03	P1
11.56	9/26/03	P2
8.87	12/2/03	P1
10.15	12/2/03	P2

D E P T H



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-004A P1, P2

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

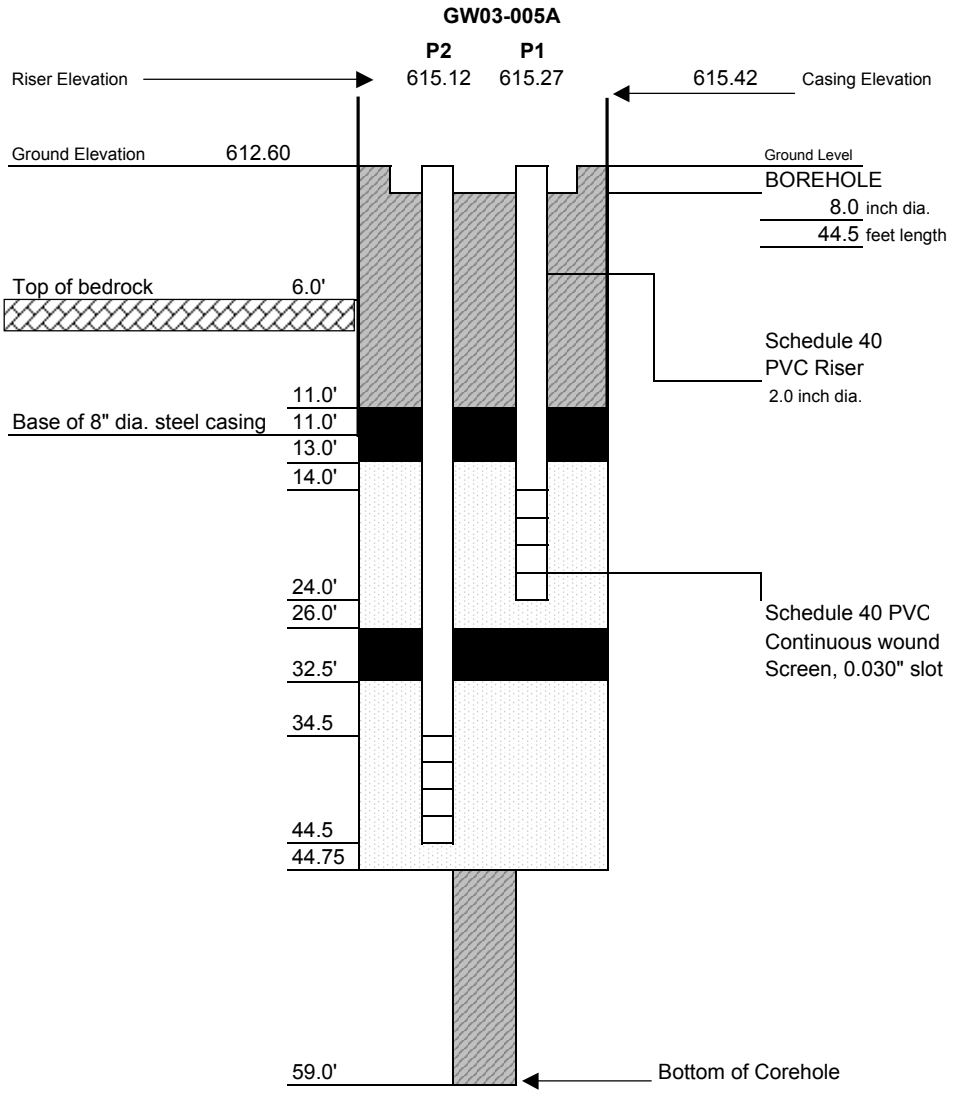
Driller:
Ryan Baye

Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/10/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
2.23	8/18/03	P1
2.95	8/24/03	P1
43.50	8/24/03	P2
6.01	10/6/03	P1
39.7	10/7/03	P2
2.38	12/4/03	P1
6.77	12/9/03	P2



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: This well had artesian flow after it was cored. The artesian flow stopped prior to reaming the well to 8" diameter.Well under minor pressure when cap was removed. Some possible methane build-up.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-005A P1, P2

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

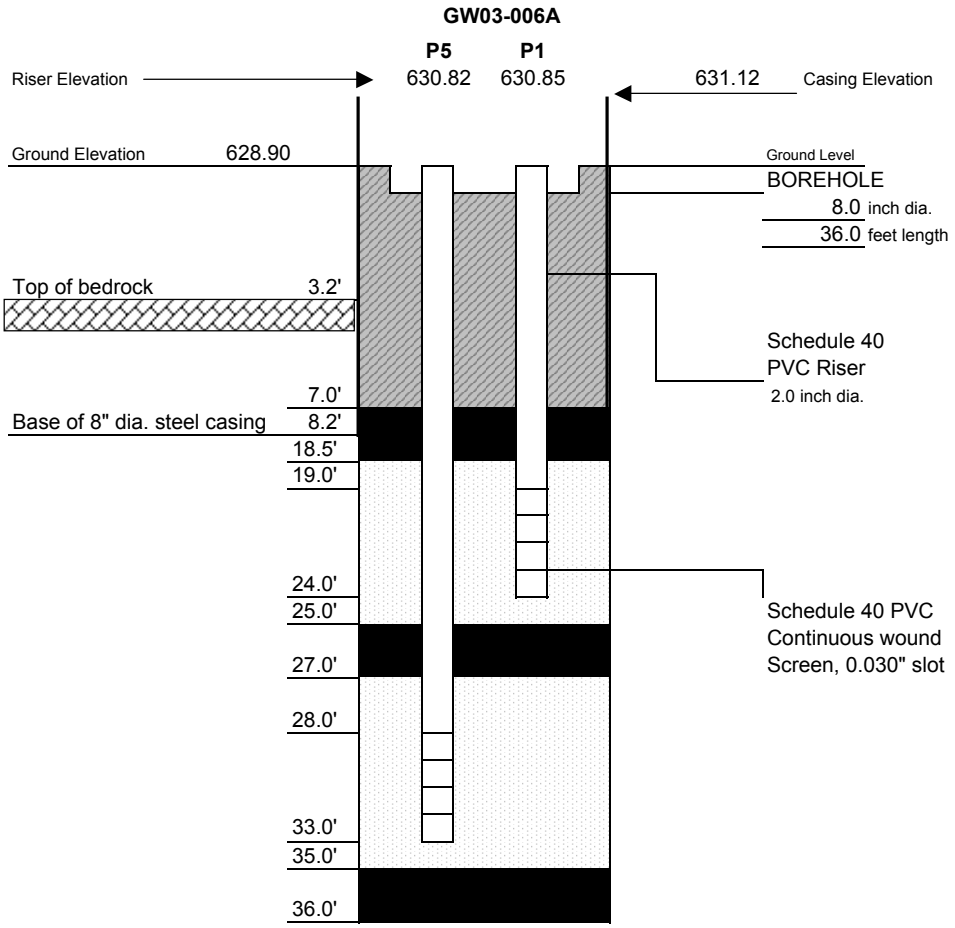
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/17/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
13.28	8/18/03	P1
16.90	8/18/03	P2
74.18	8/18/03	P3
13.19	8/18/03	P4
17.66	8/18/03	P5
15.4	10/1/03	P1
20.62	10/1/03	P2
73.41	10/9/03	P3
15.25	10/1/03	P4
21.30	10/1/03	P5
10.88	12/4/03	P1
16.18	12/8/03	P2
71.30	12/10/03	P3
10.80	12/10/03	P4
18.40	12/3/03	P5

D E P T H



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-006A P1, P5

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

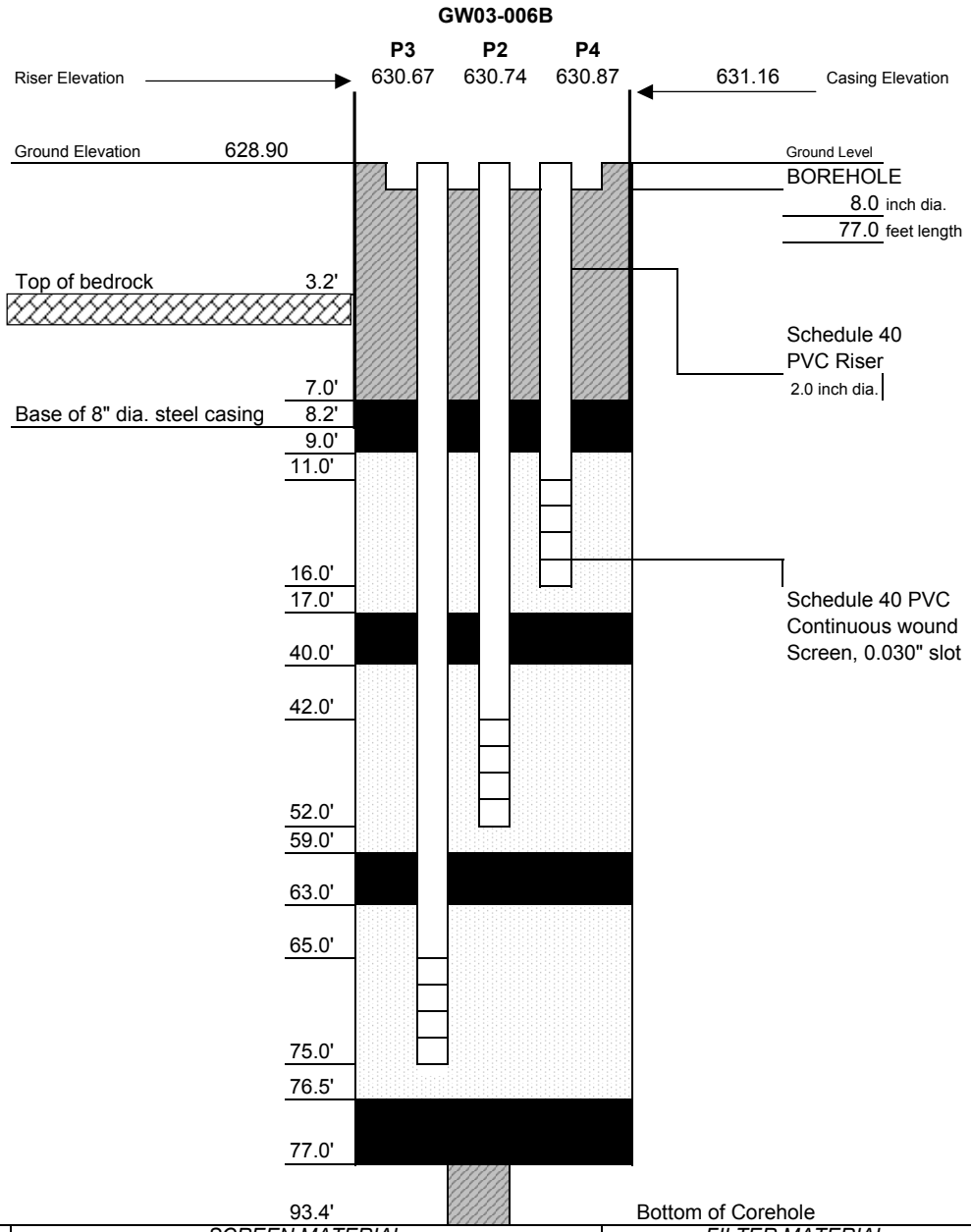
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/16/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
13.28	8/18/03	P1
16.90	8/18/03	P2
74.18	8/18/03	P3
13.19	8/18/03	P4
17.66	8/18/03	P5
15.4	10/1/03	P1
20.62	10/1/03	P2
73.41	10/9/03	P3
15.25	10/1/03	P4
21.30	10/1/03	P5
10.88	12/4/03	P1
16.18	12/8/03	P2
71.30	12/10/03	P3
10.80	12/10/03	P4
18.40	12/3/03	P5

WELL DESIGN



CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand *SEAL MATERIAL* Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND
- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-006B P2-P4

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DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/16/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
10.30	8/24/03	P1
21.45	8/24/03	P2
49.86	8/24/03	P3
10.08	8/24/03	P4
19.46	8/24/03	P5
12.30	10/1/03	P1
24.75	10/2/03	P2
22.83	10/2/03	P3
12.10	10/1/03	P4
22.70	10/2/03	P5
7.51	12/4/03	P1
15.90	12/10/03	P2
30.74	12/10/03	P3
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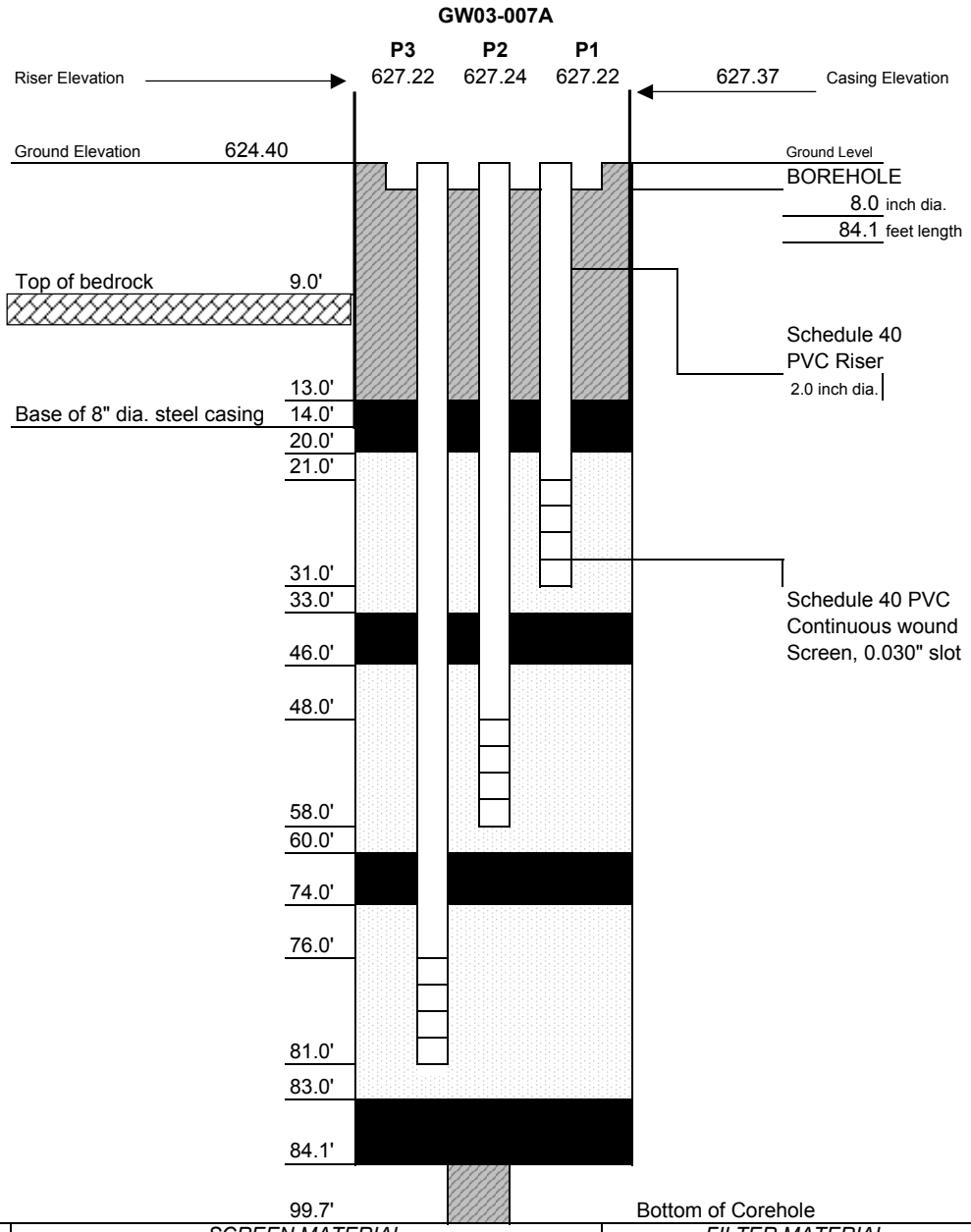
14.65	12/10/03	P5



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Well under high pressure when cap removed.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-007A P1-P3

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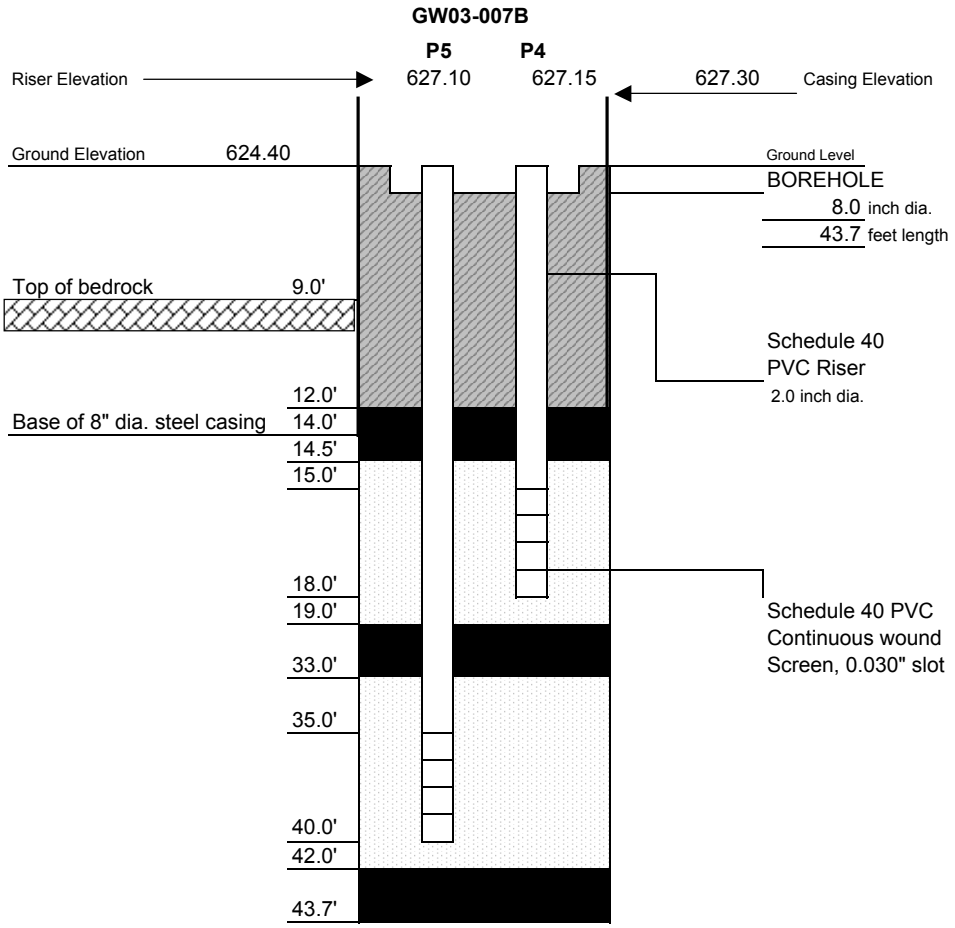
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/16/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
10.30	8/24/03	P1
21.45	8/24/03	P2
49.86	8/24/03	P3
10.08	8/24/03	P4
19.46	8/24/03	P5
12.30	10/1/03	P1
24.75	10/2/03	P2
22.83	10/2/03	P3
12.10	10/1/03	P4
22.70	10/2/03	P5
7.51	12/4/03	P1
15.90	12/10/03	P2
30.74	12/10/03	P3
7.25	12/4/03	P4
14.65	12/10/03	P5

D E P T H



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-007B P4-P5

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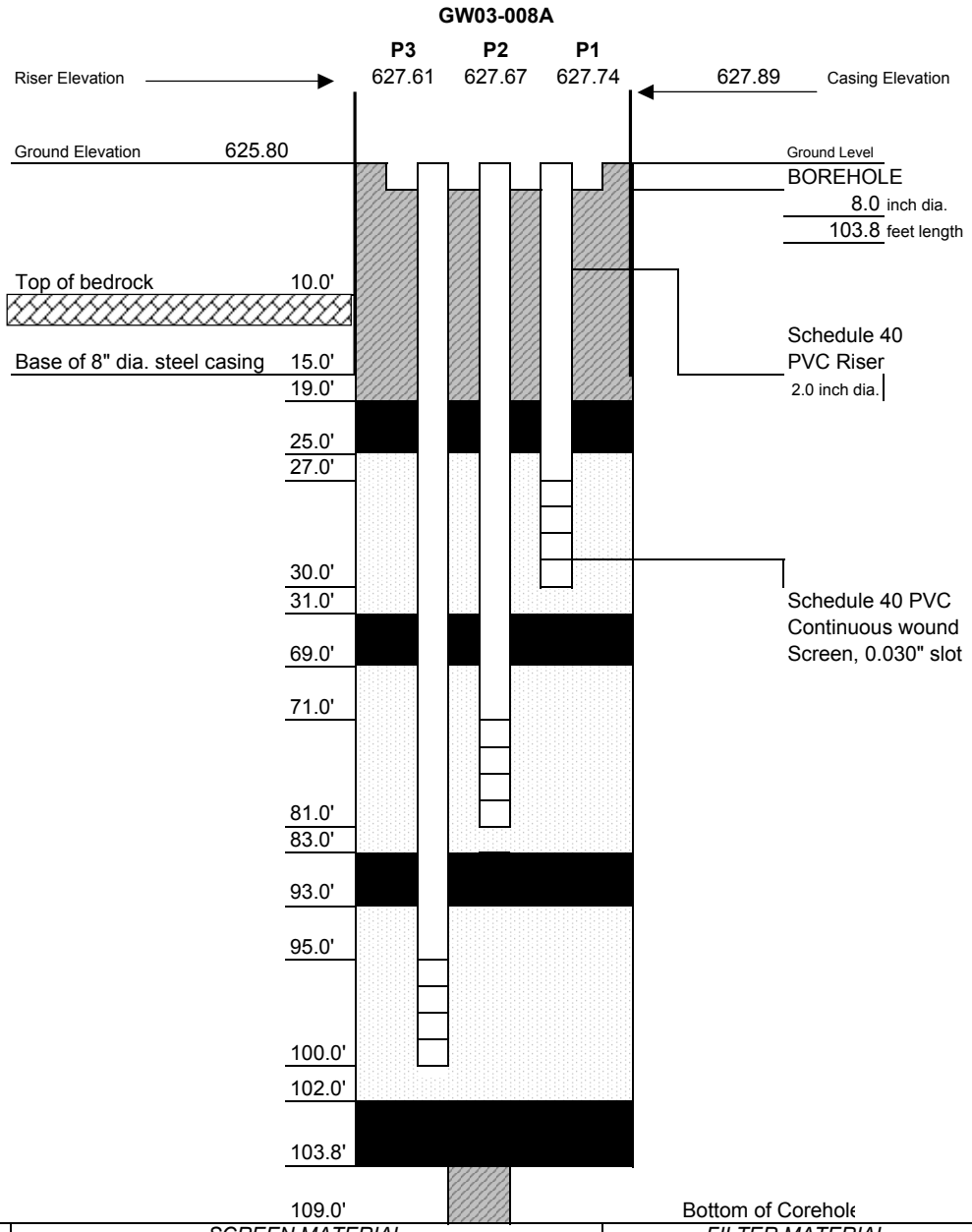
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/17/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
10.73	8/24/03	P1
22.18	8/24/03	P2
9.59	8/24/03	P3
11.14	8/24/03	P4
10.95	8/24/03	P5
60.46	8/24/03	P6
12.90	9/30/03	P1
26.62	10/8/03	P2
9.85	10/8/03	P3
13.16	9/29/03	P4
12.9	9/30/03	P5
58.67	10/8/03	P6
7.89	12/3/03	P1
17.00	12/3/03	P2
10.63	12/3/03	P3
8.60	12/3/03	P4
8.22	12/3/03	P5
59.92	12/4/03	P6

D E P T H

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND
- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	Location: Niagara County, New York	Project No.: 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	Well Number: GW03-008A P1-P3

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

Rig Make/Model:
Versa Drill and Foremost

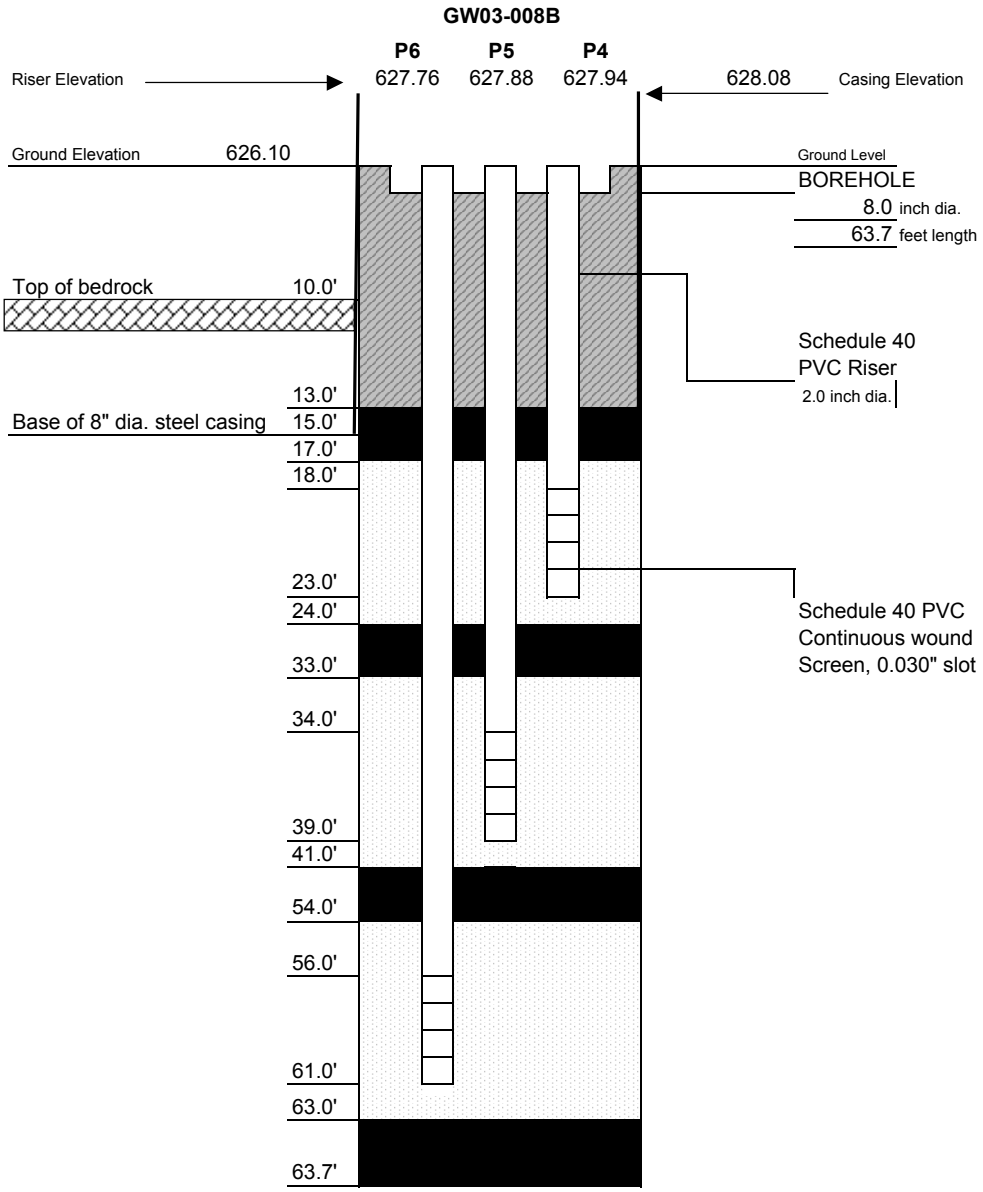
Installation Date:
7/24/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
10.73	8/24/03	P1
22.18	8/24/03	P2
9.59	8/24/03	P3
11.14	8/24/03	P4
10.95	8/24/03	P5
60.46	8/24/03	P6
12.90	9/30/03	P1
26.62	10/8/03	P2
9.85	10/8/03	P3
13.16	9/29/03	P4
12.9	9/30/03	P5
58.67	10/8/03	P6
7.89	12/3/03	P1
17.00	12/3/03	P2
10.63	12/3/03	P3
8.60	12/3/03	P4
8.22	12/3/03	P5
59.92	12/4/03	P6

D E P T H

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-008B P4-P6

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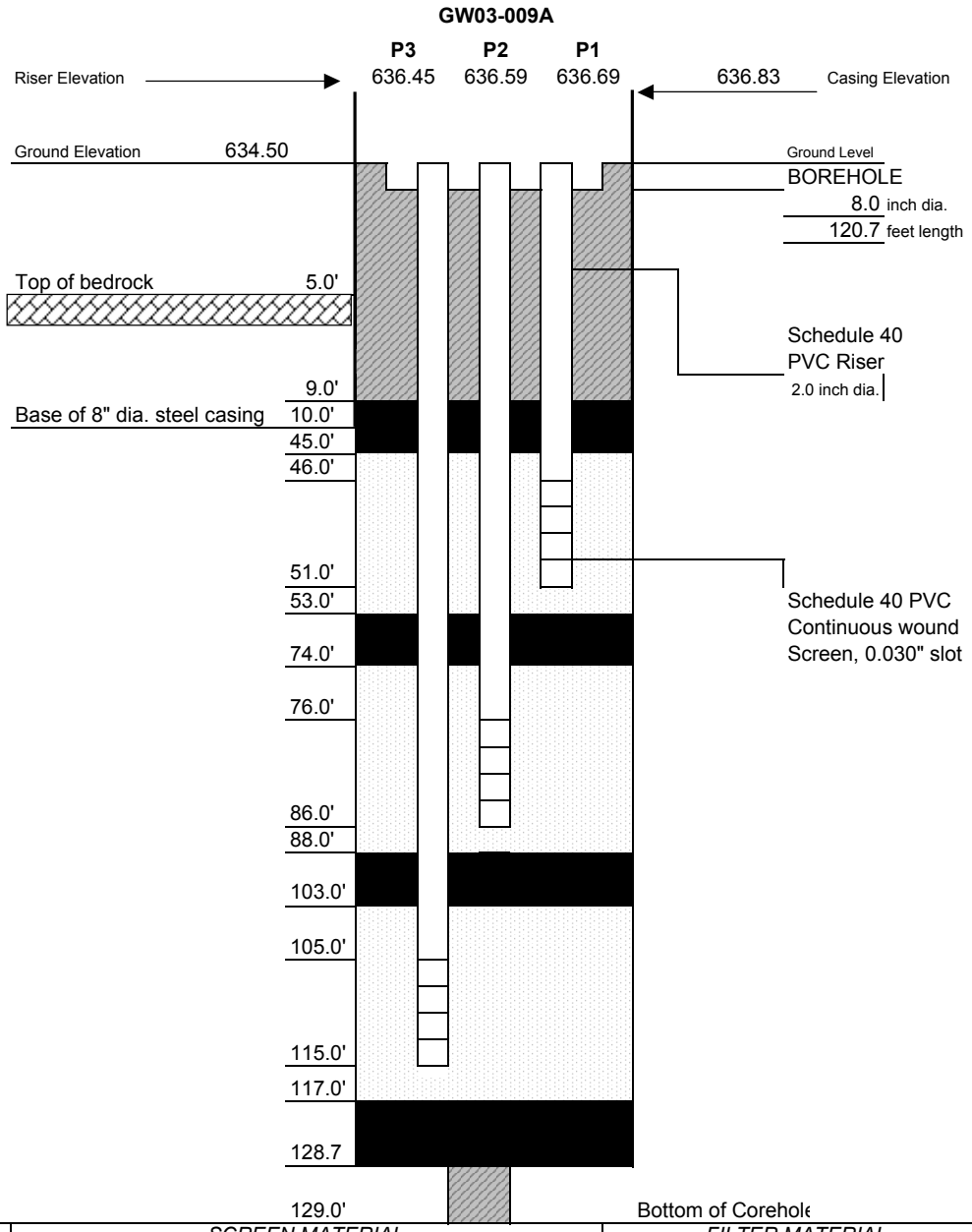
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/15/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
20.05	8/24/03	P1
31.10	8/24/03	P2
54.34	8/24/03	P3
18.31	8/24/03	P4
18.67	8/24/03	P5
18.21	8/24/03	P6
21.75	9/29/03	P1
35.65	10/9/03	P2
45.61	10/13/03	P3
19.32	9/29/03	P4
20.72	9/29/03	P5
19.40	9/30/03	P6
17.65	12/5/03	P1
25.70	12/5/03	P2
79.10	12/5/03	P3
15.10	12/5/03	P4
15.82	12/5/03	P5
15.32	12/5/03	P6

D E P T H

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Gas in P3

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-009A P1-P3

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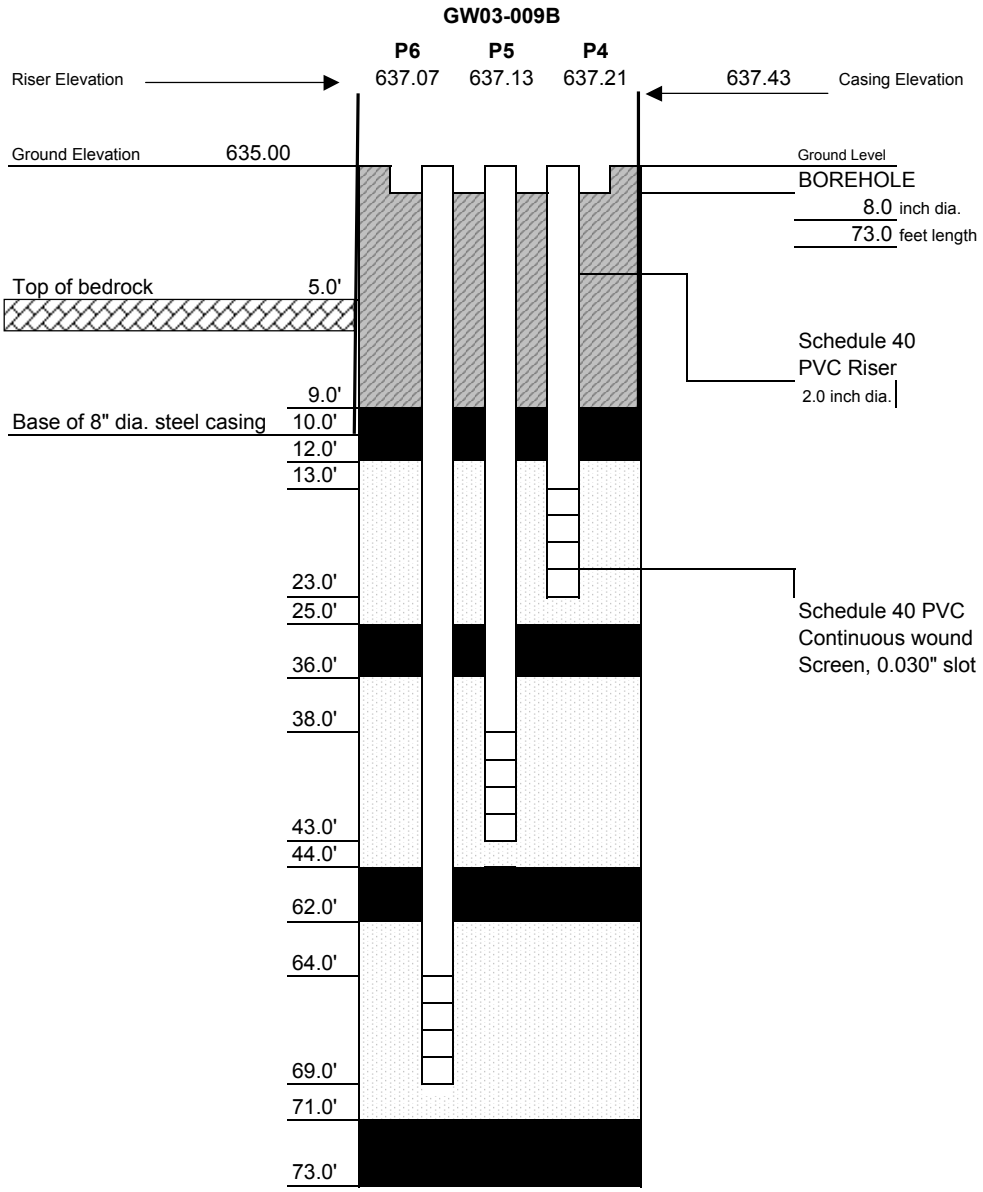
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/15/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
20.05	8/24/03	P1
31.10	8/24/03	P2
54.34	8/24/03	P3
18.31	8/24/03	P4
18.67	8/24/03	P5
18.21	8/24/03	P6
21.75	9/29/03	P1
35.65	10/9/03	P2
45.61	10/13/03	P3
19.32	9/29/03	P4
20.72	9/29/03	P5
19.40	9/30/03	P6
17.65	12/5/03	P1
25.70	12/5/03	P2
79.10	12/5/03	P3
15.10	12/5/03	P4
15.82	12/5/03	P5
15.32	12/5/03	P6

D E P T H

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-009B P4-P6

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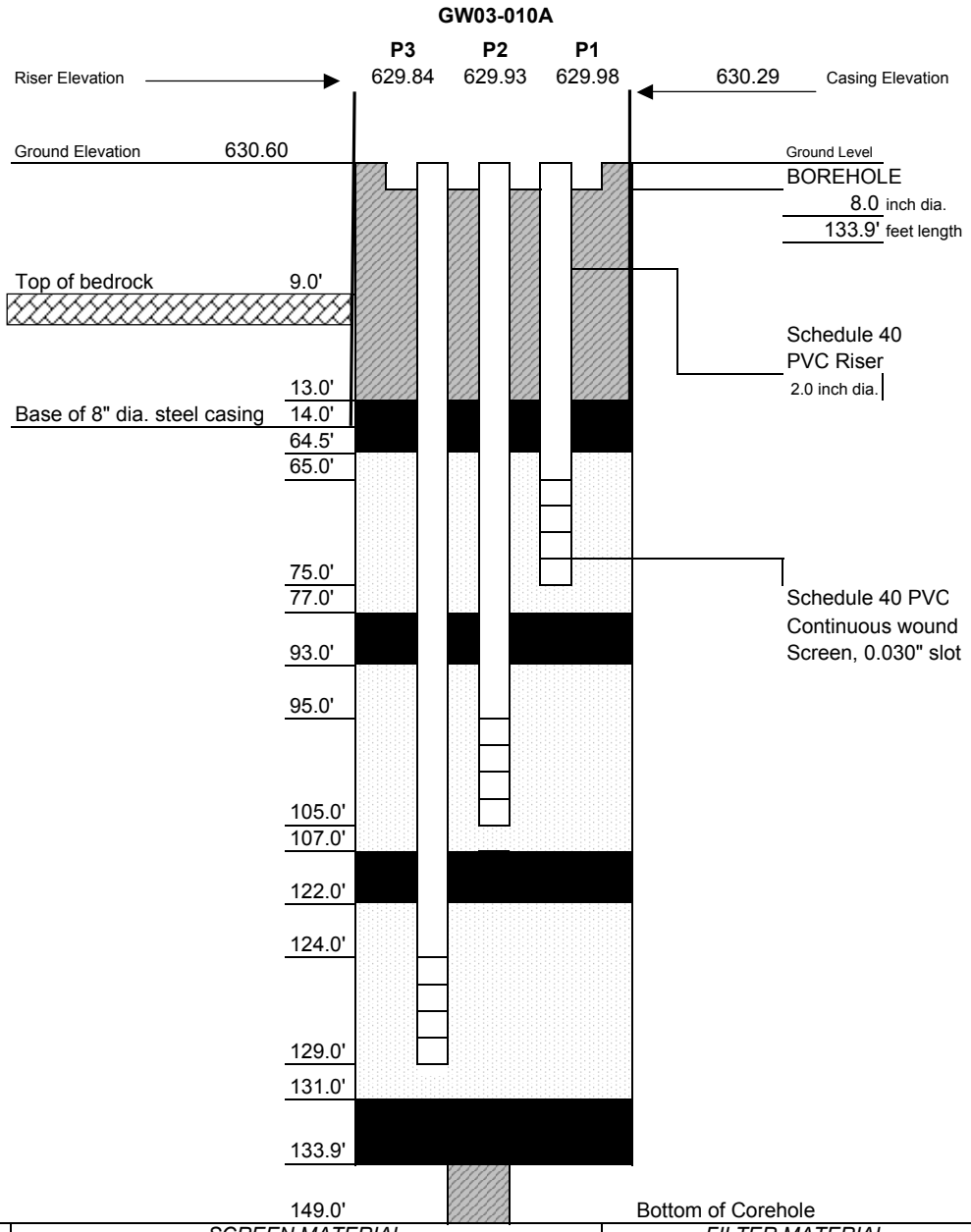
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/28/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
36.87	8/24/03	P1
24.56	8/24/03	P2
25.62	8/24/03	P3
19.26	8/24/03	P4
23.49	8/24/03	P5
32.30	8/24/03	P6
19.25	8/24/03	P7
39.08	10/9/03	P1
29.53	10/13/03	P2
29.20	10/13/03	P3
20.40	9/26/03	P4
24.60	10/8/03	P5
35.83	10/9/03	P6
20.31	9/26/03	P7
35.01	12/4/03	P1
19.38	12/3/03	P2
72.84	12/4/03	P3
17.99	12/2/03	P4
20.55	12/3/03	P5
27.92	12/3/03	P6
17.93	12/2/03	P7

D E P T H

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND
- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-010A P1-P3

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

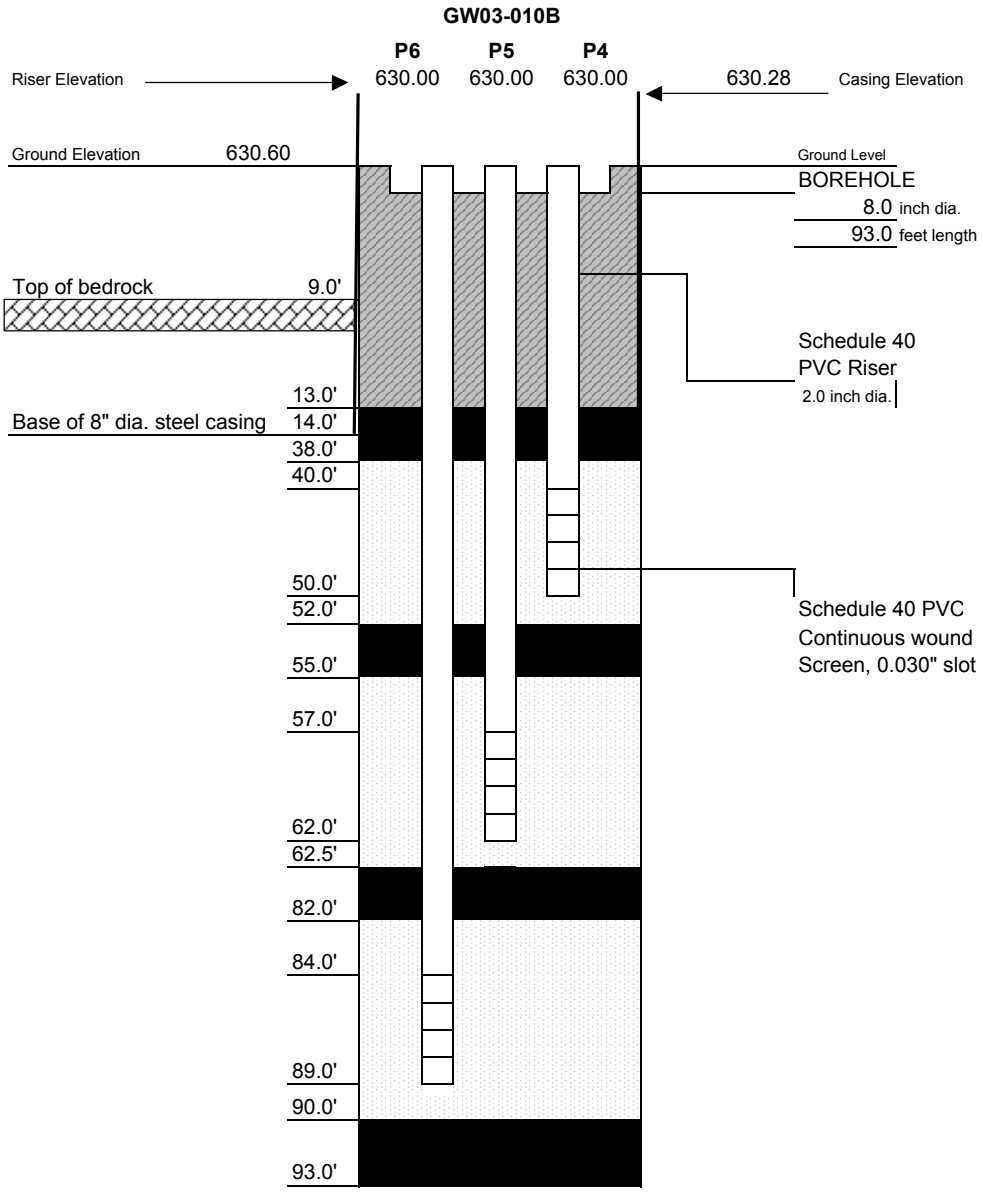
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/28/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
36.87	8/24/03	P1
24.56	8/24/03	P2
25.62	8/24/03	P3
19.26	8/24/03	P4
23.49	8/24/03	P5
32.30	8/24/03	P6
19.25	8/24/03	P7
39.08	10/9/03	P1
29.53	10/13/03	P2
29.20	10/13/03	P3
20.40	9/26/03	P4
24.60	10/8/03	P5
35.83	10/9/03	P6
20.31	9/26/03	P7
35.01	12/4/03	P1
19.38	12/3/03	P2
72.84	12/4/03	P3
17.99	12/2/03	P4
20.55	12/3/03	P5
27.92	12/3/03	P6
17.93	12/2/03	P7

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-010B P4-P6

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

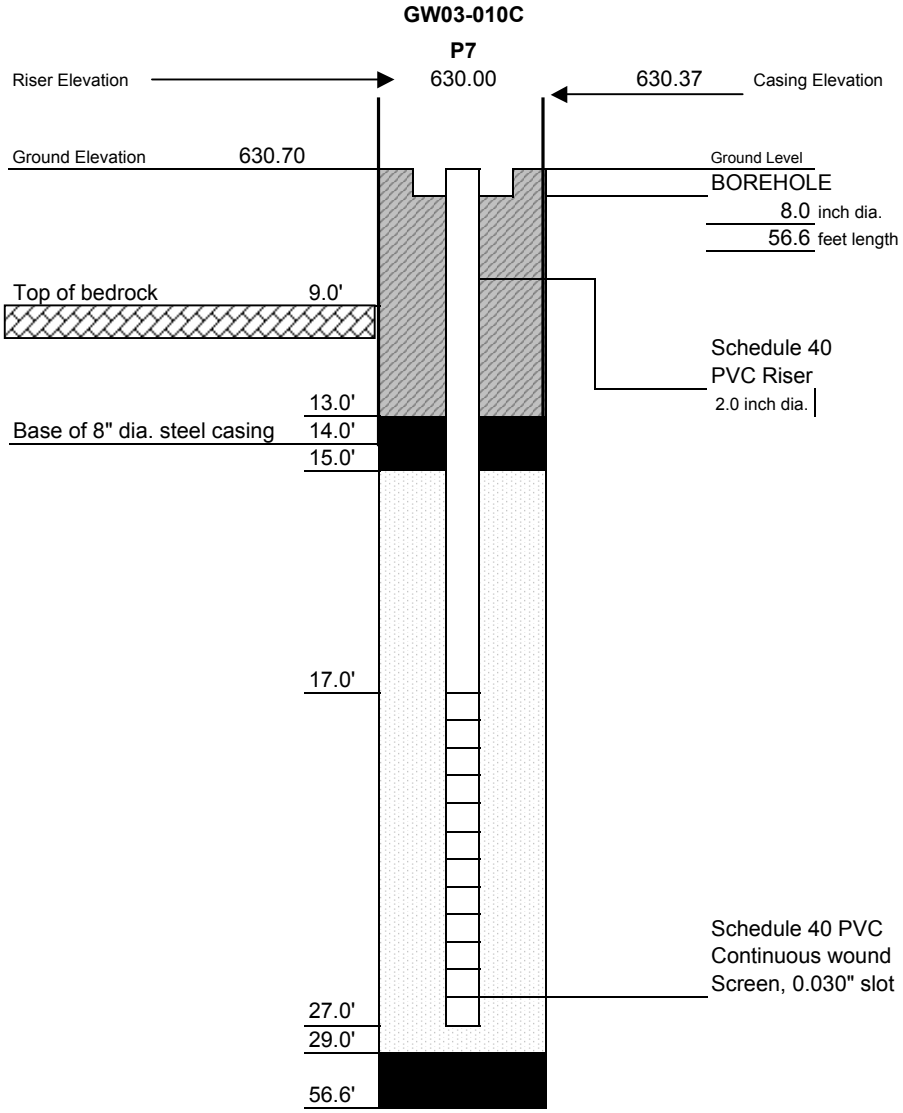
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/16/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
36.87	8/24/03	P1
24.56	8/24/03	P2
25.62	8/24/03	P3
19.26	8/24/03	P4
23.49	8/24/03	P5
32.30	8/24/03	P6
19.25	8/24/03	P7
39.08	10/9/03	P1
29.53	10/13/03	P2
29.20	10/13/03	P3
20.40	9/26/03	P4
24.60	10/8/03	P5
35.83	10/9/03	P6
20.31	9/26/03	P7
35.01	12/4/03	P1
19.38	12/3/03	P2
72.84	12/4/03	P3
17.99	12/2/03	P4
20.55	12/3/03	P5
27.92	12/3/03	P6
17.93	12/2/03	P7

D E P T H



WELL DESIGN

CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand *SEAL MATERIAL* Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-010C-P7

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

Rig Make/Model:
Versa Drill and Foremost

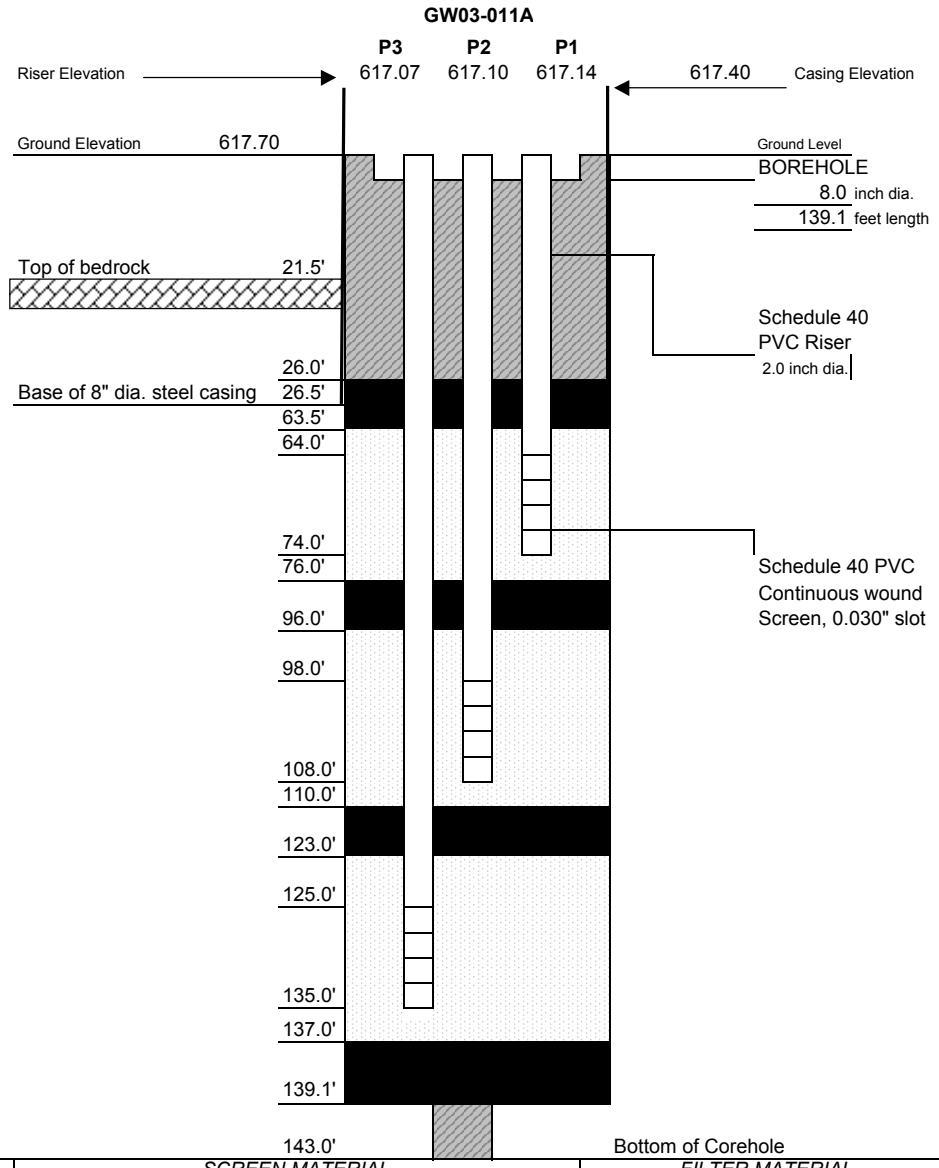
Installation Date:
8/21/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
36.09	8/24/03	P1
21.30	8/24/03	P2
23.47	8/24/03	P3
13.23	8/24/03	P4
86.39	8/24/03	P5
13.16	8/24/03	P7
15.61	8/24/03	P8
35.45	10/9/03	P1
24.65	9/25/03	P2
27.54	10/13/03	P3
14.16	10/13/03	P4
86	10/9/03	P5
14.1	9/25/03	P7
16.2	9/25/03	P8
33.19	12/2/03	P1
27.52	12/2/03	P2
29.34	12/2/03	P3
11.59	12/2/03	P4
86.39	12/2/03	P5
11.56	12/2/03	P7
14.19	12/2/03	P8

D E P T H

WELL DESIGN



CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Air hammering at 80 feet produced 60 ppm H2S at surface. A faint H2S odor can be smelled at the surface when the wells are full of water. The first padlock installed on the deep well was corroded by H2S.

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-011A P1-P3

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

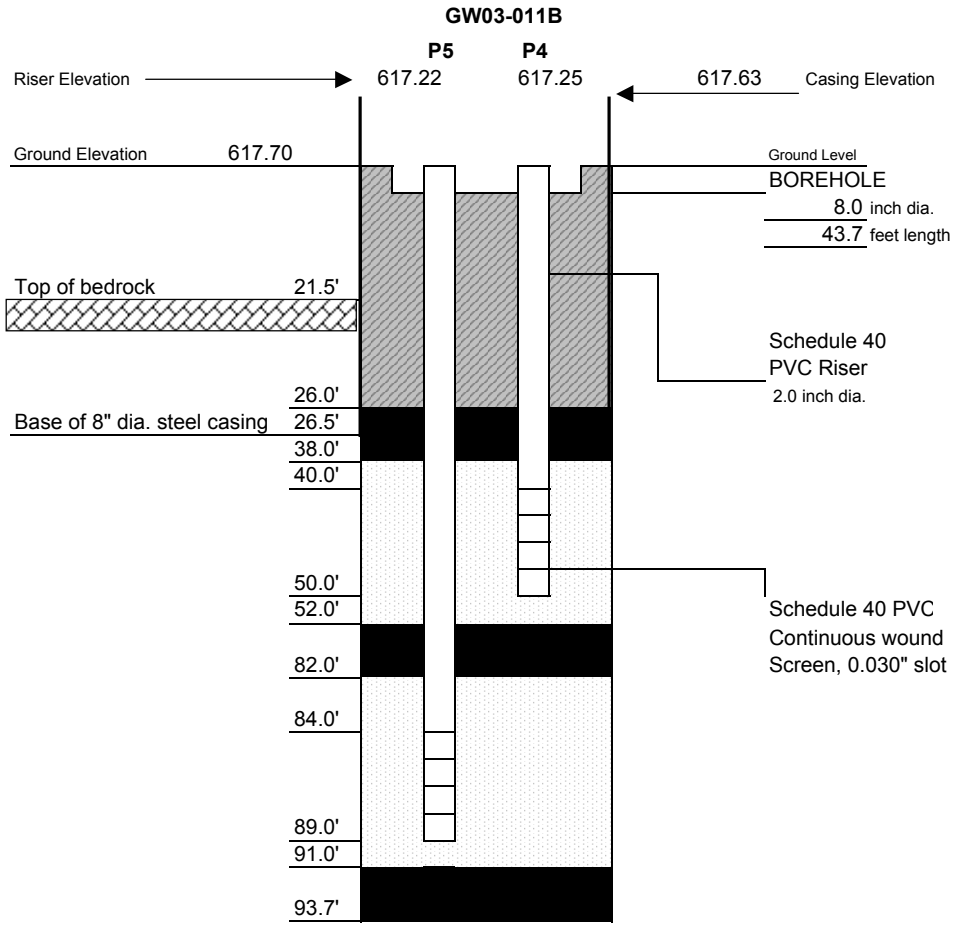
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
8/21/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
36.09	8/24/03	P1
21.30	8/24/03	P2
23.47	8/24/03	P3
13.23	8/24/03	P4
86.39	8/24/03	P5
13.16	8/24/03	P7
15.61	8/24/03	P8
35.45	10/9/03	P1
24.65	9/25/03	P2
27.54	10/13/03	P3
14.16	10/13/03	P4
86	10/9/03	P5
14.1	9/25/03	P7
16.2	9/25/03	P8
33.19	12/2/03	P1
27.52	12/2/03	P2
29.34	12/2/03	P3
11.59	12/2/03	P4
86.39	12/2/03	P5
11.56	12/2/03	P7
14.19	12/2/03	P8

D E P T H



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-011B P4-P5

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

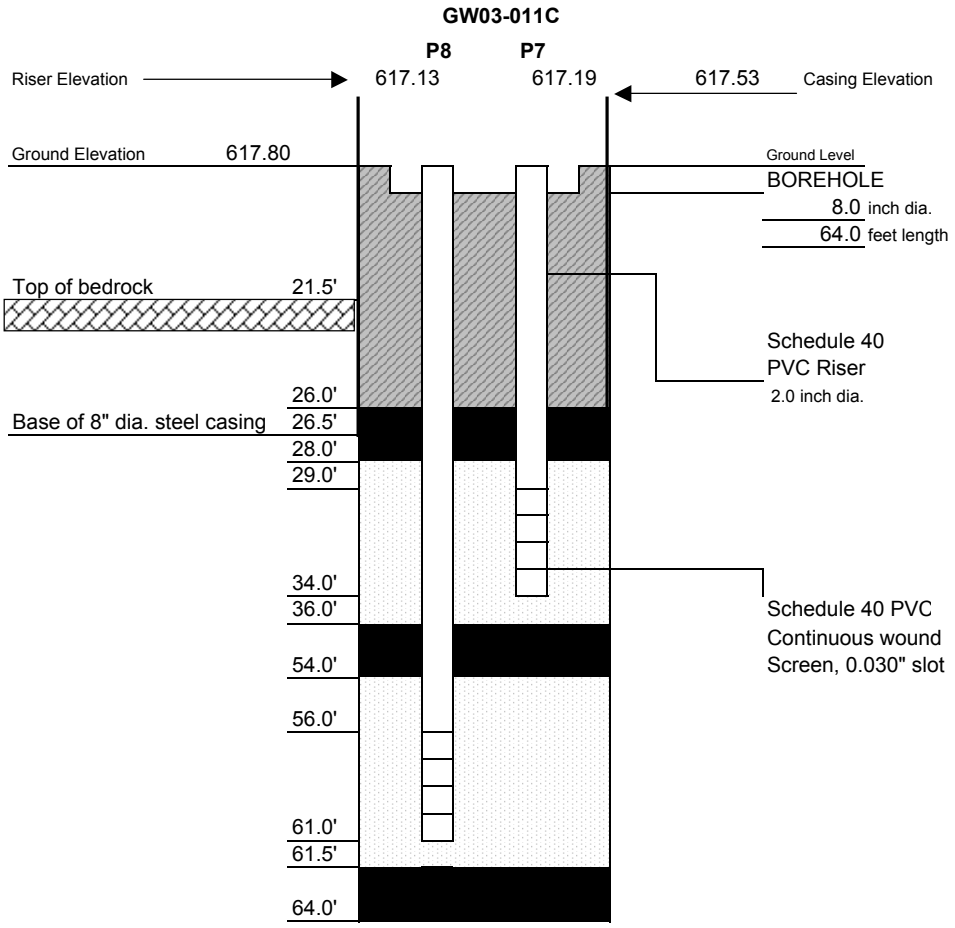
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
8/21/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
36.09	8/24/03	P1
21.30	8/24/03	P2
23.47	8/24/03	P3
13.23	8/24/03	P4
86.39	8/24/03	P5
13.16	8/24/03	P7
15.61	8/24/03	P8
35.45	10/9/03	P1
24.65	9/25/03	P2
27.54	10/13/03	P3
14.16	10/13/03	P4
86	10/9/03	P5
14.1	9/25/03	P7
16.2	9/25/03	P8
33.19	12/2/03	P1
27.52	12/2/03	P2
29.34	12/2/03	P3
11.59	12/2/03	P4
86.39	12/2/03	P5
11.56	12/2/03	P7
14.19	12/2/03	P8

D E P T H



WELL DESIGN

CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-011C P7-P8

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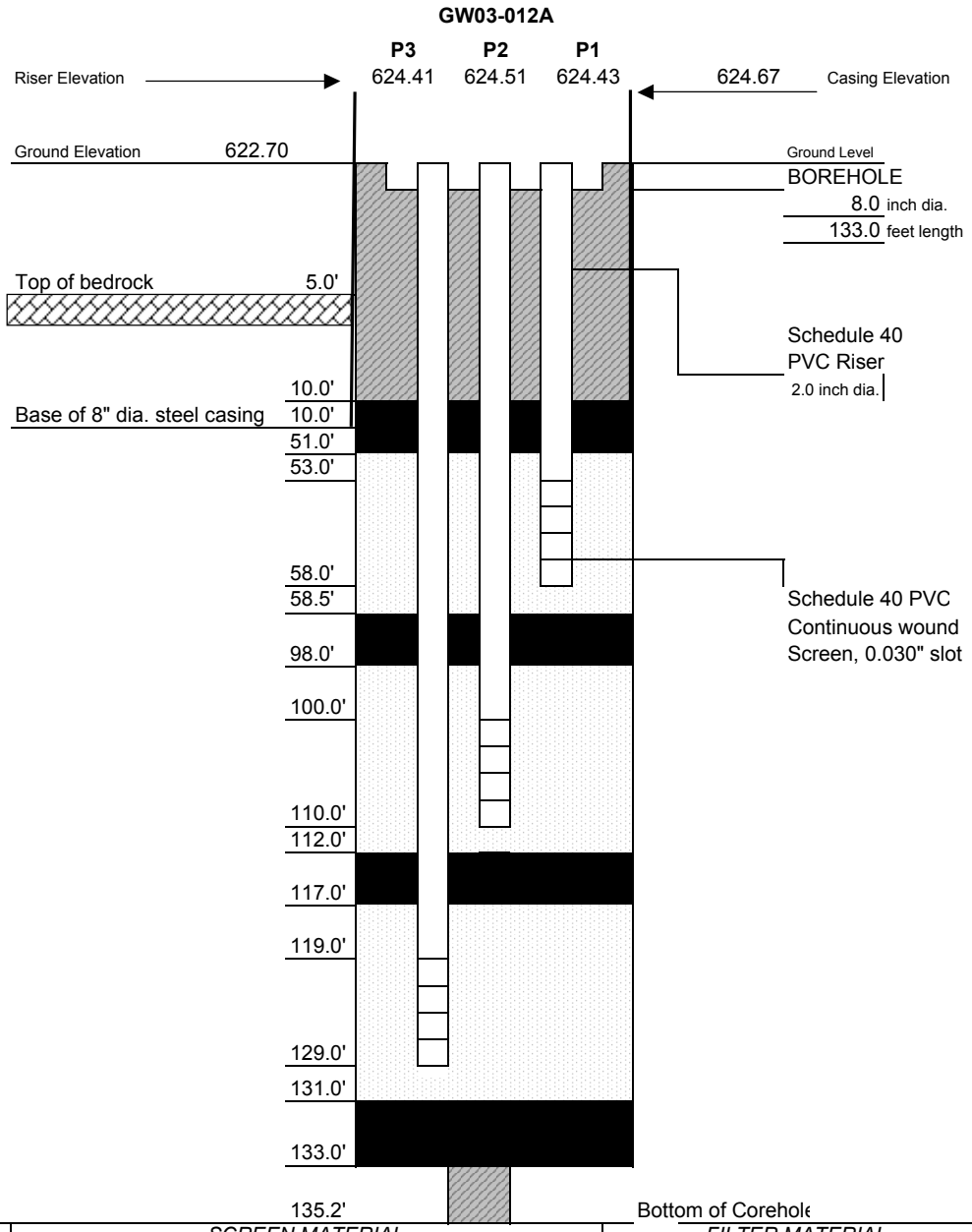
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/29/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
dry	8/24/03	P1
68.07	8/24/03	P2
94.36	8/24/03	P3
41.10	8/24/03	P4
60.21	8/24/03	P5
68.75	8/24/03	P6
26.73	8/24/03	P7
dry	10/9/03	P1
66.82	10/9/03	P2
71.30	10/9/03	P3
41.02	10/9/03	P4
60.79	10/9/03	P5
67.68	10/9/03	P6
26.04	10/9/03	P7
dry	12/15/03	P1
73.22	12/16/03	P2
	12/16/03	P3
39.80	12/16/03	P4
60.30	12/15/03	P5
74.80	12/16/03	P6
25.60	12/15/03	P7

D E P T H

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND
- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-012A P1-P3

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

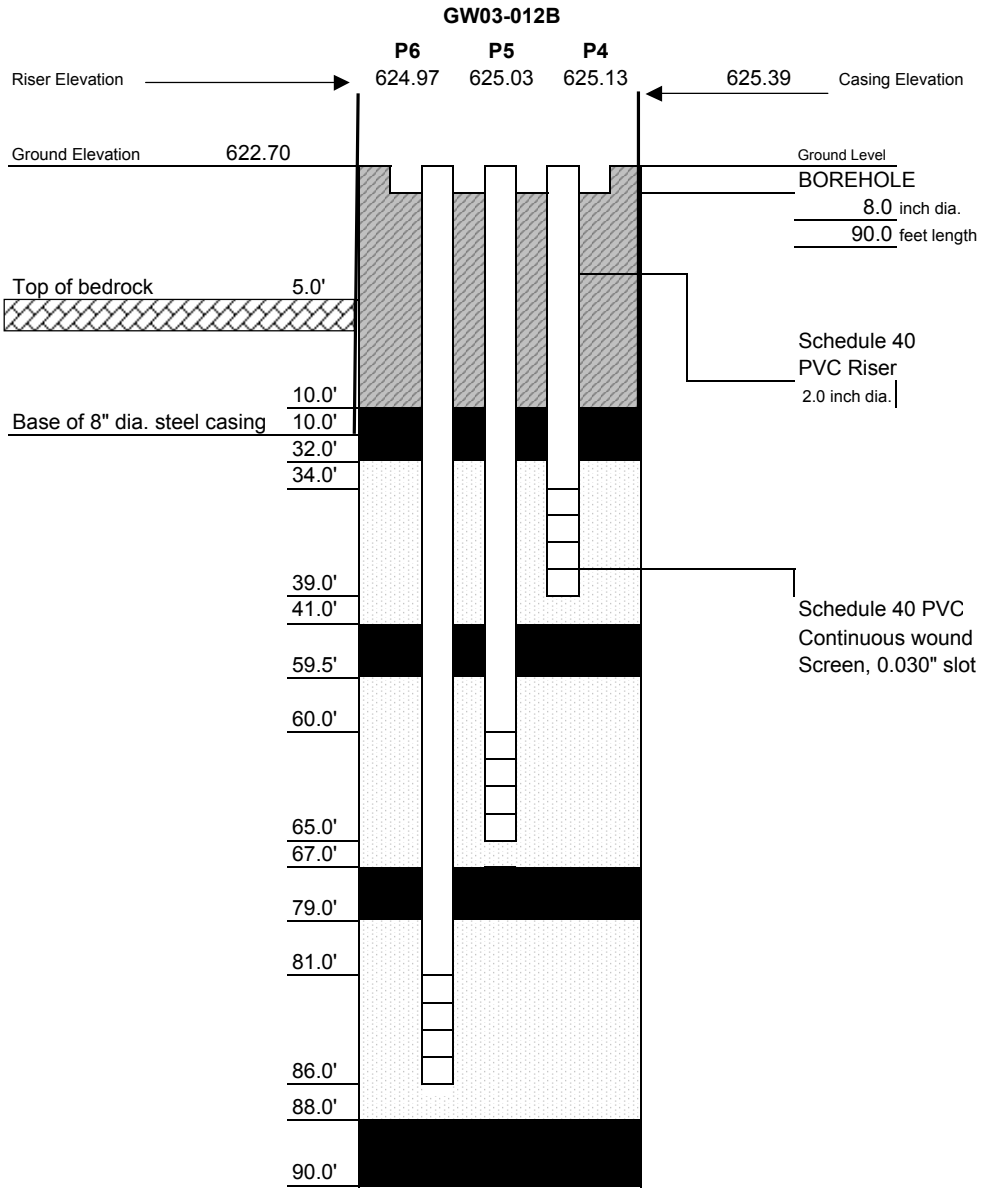
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/29/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
dry	8/24/03	P1
68.07	8/24/03	P2
94.36	8/24/03	P3
41.10	8/24/03	P4
60.21	8/24/03	P5
68.75	8/24/03	P6
26.73	8/24/03	P7
dry	10/9/03	P1
66.82	10/9/03	P2
71.30	10/9/03	P3
41.02	10/9/03	P4
60.79	10/9/03	P5
67.68	10/9/03	P6
26.04	10/9/03	P7
dry	12/15/03	P1
73.22	12/16/03	P2
	12/16/03	P3
39.80	12/16/03	P4
60.30	12/15/03	P5
74.80	12/16/03	P6
25.60	12/15/03	P7

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-012B P4-P6

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

Rig Make/Model:
Versa Drill and Foremost

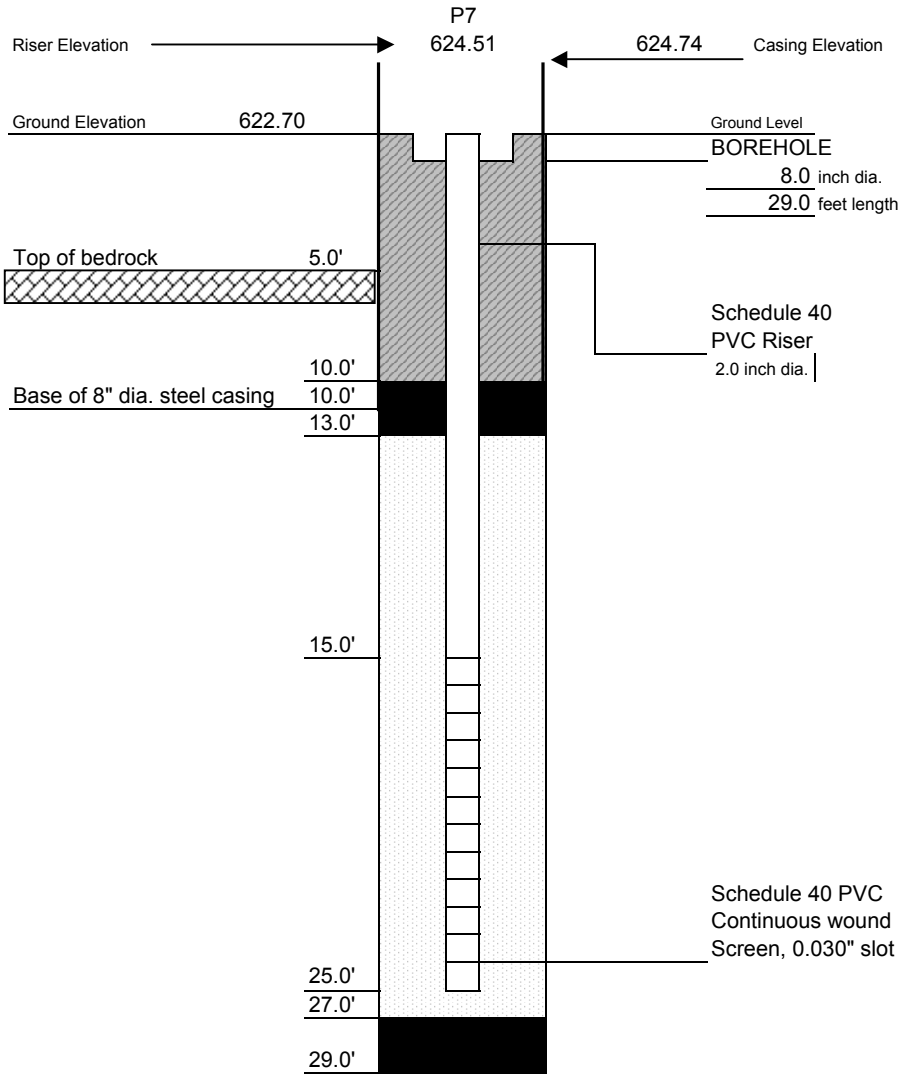
Installation Date:
7/16/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
dry	8/24/03	P1
68.07	8/24/03	P2
94.36	8/24/03	P3
41.10	8/24/03	P4
60.21	8/24/03	P5
68.75	8/24/03	P6
26.73	8/24/03	P7
dry	10/9/03	P1
66.82	10/9/03	P2
71.30	10/9/03	P3
41.02	10/9/03	P4
60.79	10/9/03	P5
67.68	10/9/03	P6
26.04	10/9/03	P7
dry	12/15/03	P1
73.22	12/16/03	P2
	12/16/03	P3
39.80	12/16/03	P4
60.30	12/15/03	P5
74.80	12/16/03	P6
25.60	12/15/03	P7

D E P T H

GW03-012C



WELL DESIGN

CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand *SEAL MATERIAL* Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-012C-P7

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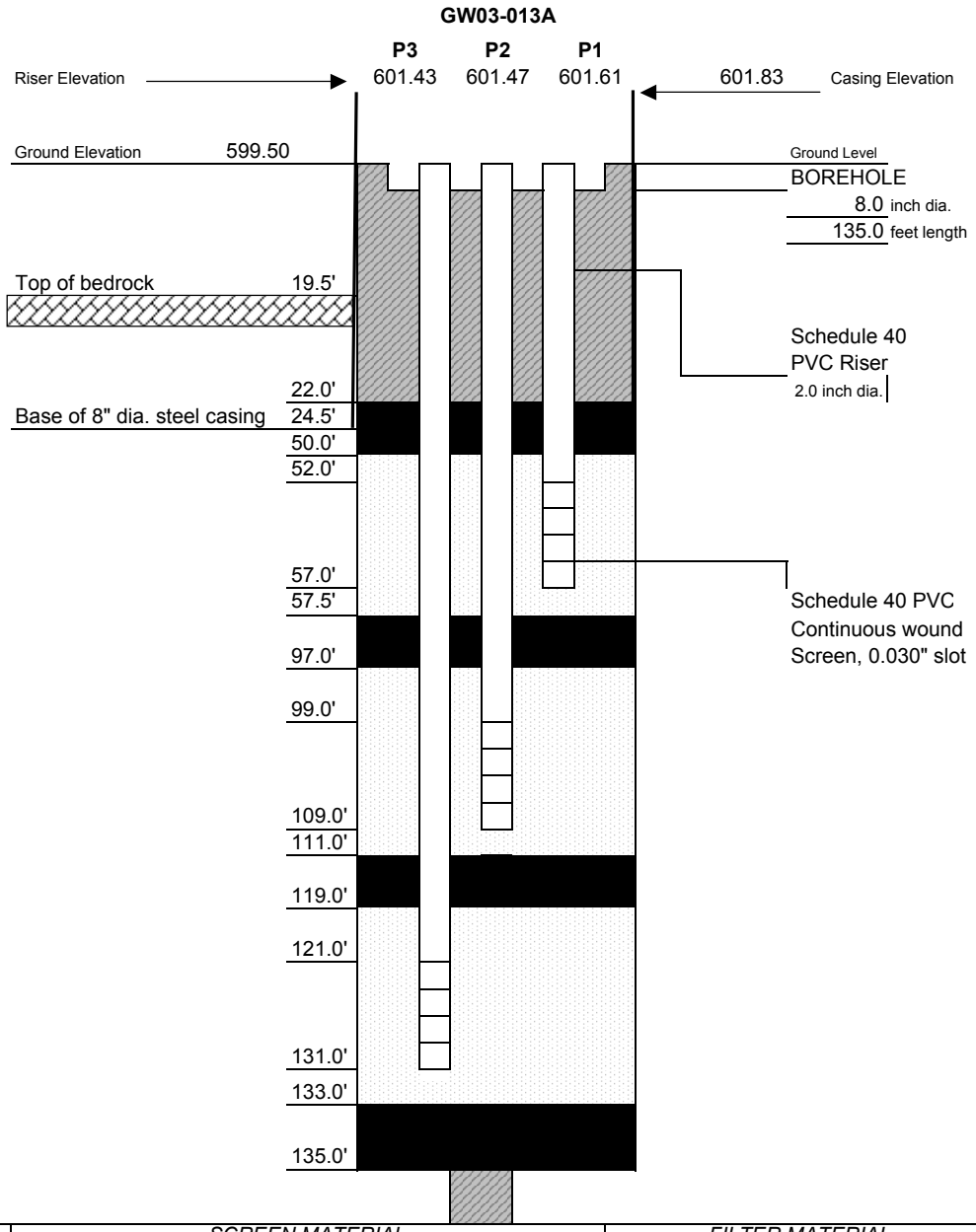
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/30/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
44.08	8/24/03	P1
45.06	8/24/03	P2
45.10	8/24/03	P3
42.91	8/24/03	P4
45.45	8/24/03	P5
49.95	8/24/03	P6
35.72	8/24/03	P7
44.16	10/8/03	P1
43.60	10/14/03	P2
42.19	10/13/03	P3
43.10	10/8/03	P4
45.79	10/6/03	P5
49.30	10/10/03	P6
35.88	10/8/03	P7
42.02	12/4/03	P1
49.19	12/4/03	P2
51.38	12/8/03	P3
42.94	12/4/03	P4
49.16	12/4/03	P5
82.22	12/5/03	P6
35.17	12/7/03	P7



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-013A P1-P3

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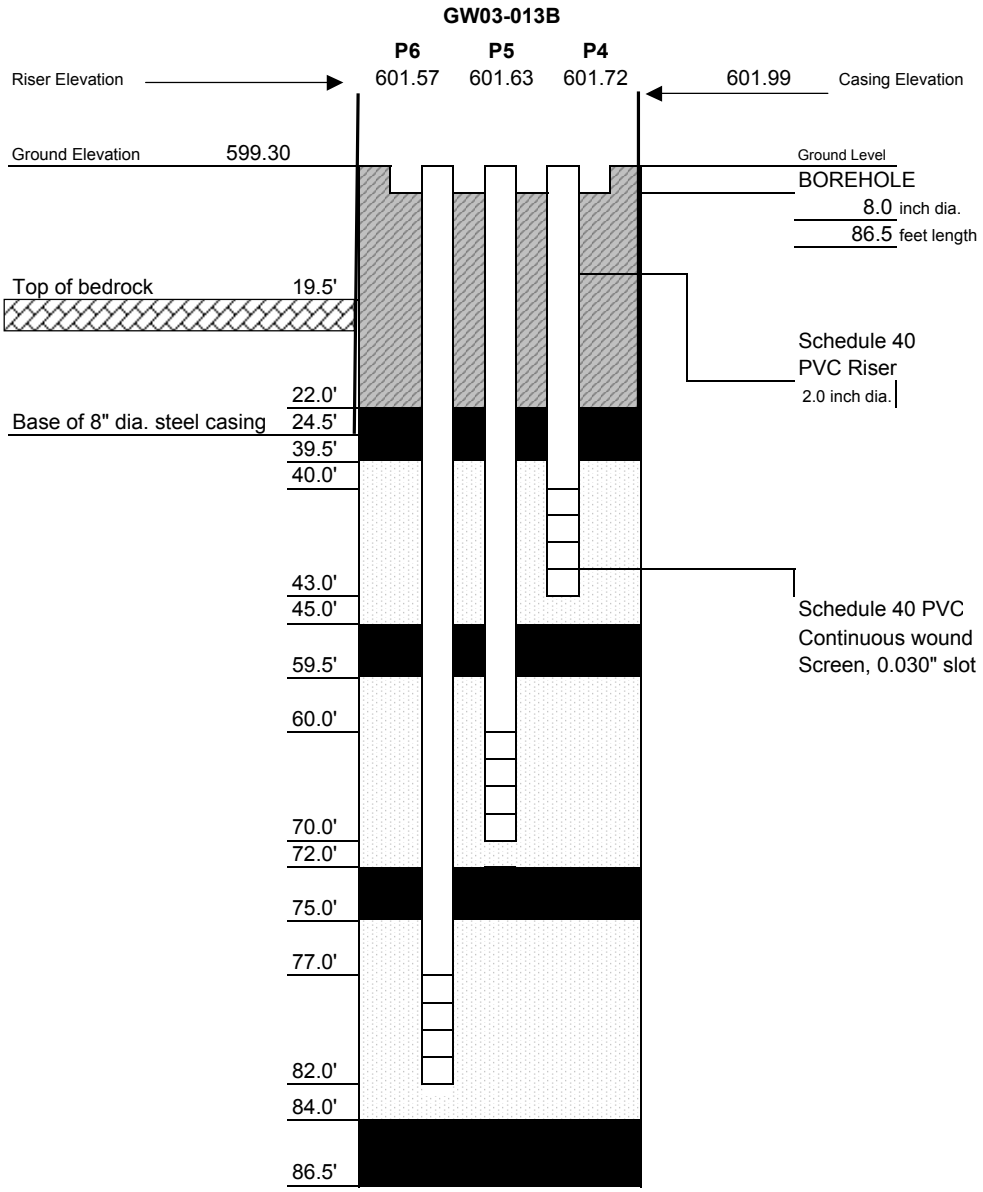
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/30/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
44.08	8/24/03	P1
45.06	8/24/03	P2
45.10	8/24/03	P3
42.91	8/24/03	P4
45.45	8/24/03	P5
49.95	8/24/03	P6
35.72	8/24/03	P7
44.16	10/8/03	P1
43.60	10/14/03	P2
42.19	10/13/03	P3
43.10	10/8/03	P4
45.79	10/6/03	P5
49.30	10/10/03	P6
35.88	10/8/03	P7
42.02	12/4/03	P1
49.19	12/4/03	P2
51.38	12/8/03	P3
42.94	12/4/03	P4
49.16	12/4/03	P5
82.22	12/5/03	P6
35.17	12/7/03	P7

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND
- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-013B P4-P6

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

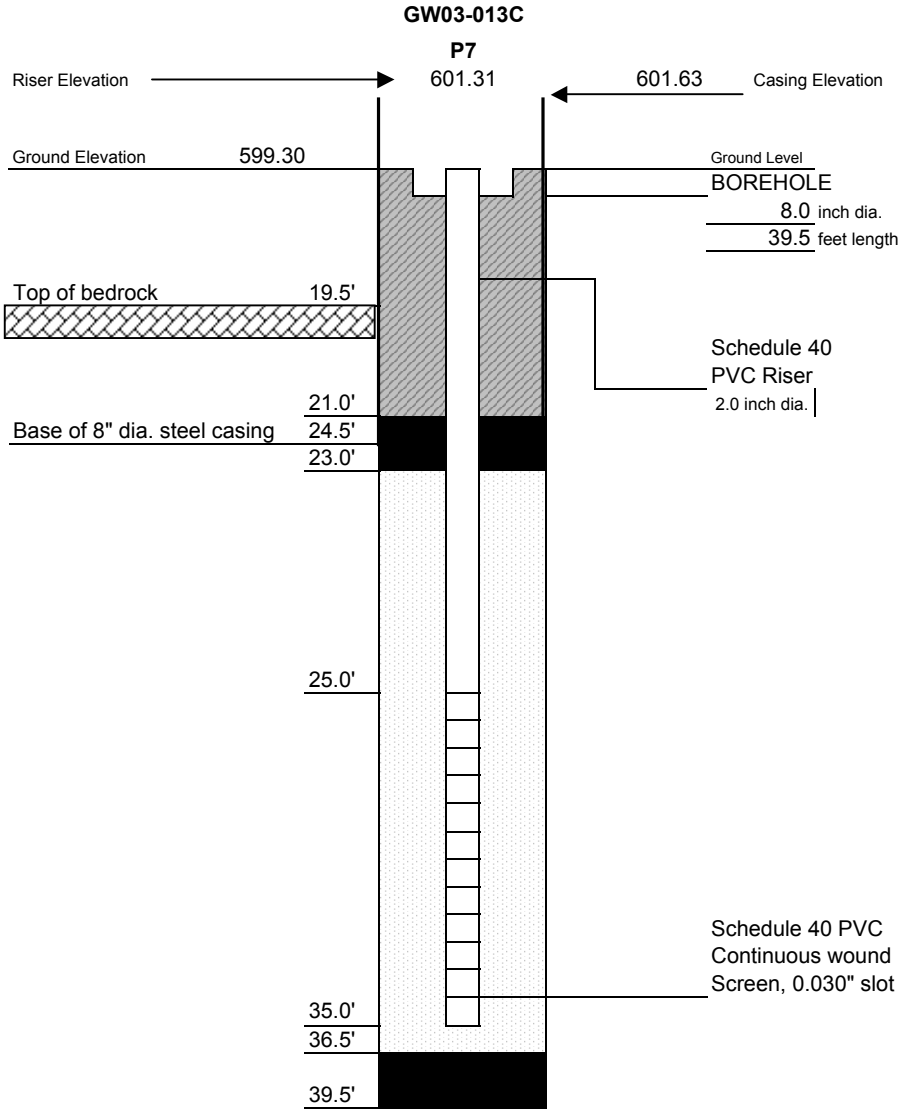
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/16/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
44.08	8/24/03	P1
45.06	8/24/03	P2
45.10	8/24/03	P3
42.91	8/24/03	P4
45.45	8/24/03	P5
49.95	8/24/03	P6
35.72	8/24/03	P7
44.16	10/8/03	P1
43.60	10/14/03	P2
42.19	10/13/03	P3
43.10	10/8/03	P4
45.79	10/6/03	P5
49.30	10/10/03	P6
35.88	10/8/03	P7
42.02	12/4/03	P1
49.19	12/4/03	P2
51.38	12/8/03	P3
42.94	12/4/03	P4
49.16	12/4/03	P5
82.22	12/5/03	P6
35.17	12/7/03	P7

D E P T H



WELL DESIGN

CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand *SEAL MATERIAL* Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-013C-P7

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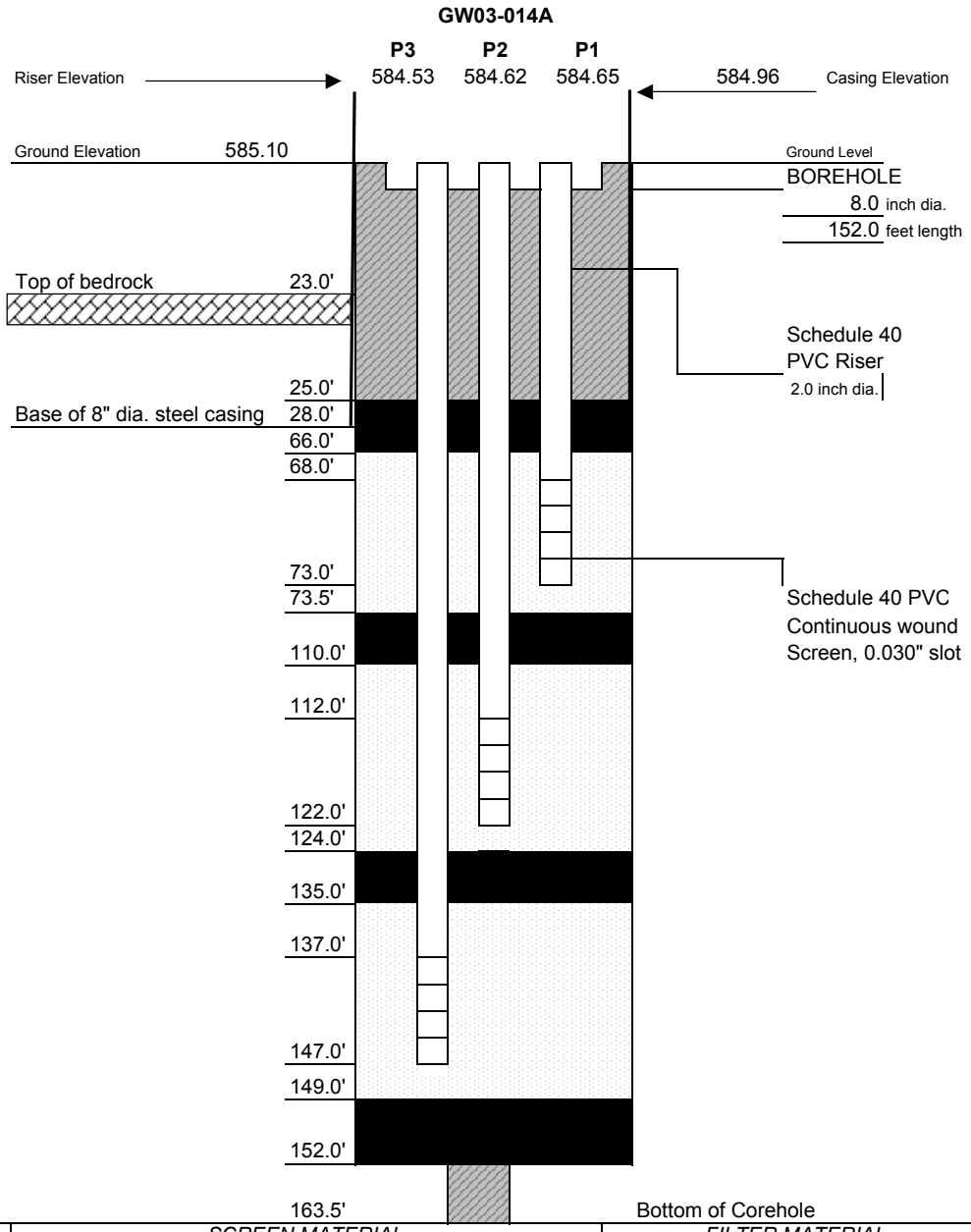
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/30/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
84.96	8/24/03	P1
120.06	8/24/03	P2
37.51	8/24/03	P3
26.83	8/24/03	P4
25.88	8/24/03	P5
25.80	8/24/03	P6
26.43	8/24/03	P7
29.82	10/13/03	P1
117.97	10/13/03	P2
37.30	10/7/03	P3
26.55	10/6/03	P4
24.97	10/6/03	P5
26.80	10/7/03	P6
26.74	10/6/03	P7
31.20	12/9/03	P1
117.60	12/9/03	P2
38.05	12/9/03	P3
27.96	12/5/03	P4
30.19	12/8/03	P5
29.31	12/8/03	P6
28.91	12/4/03	P7

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND
- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-014A P1-P3

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

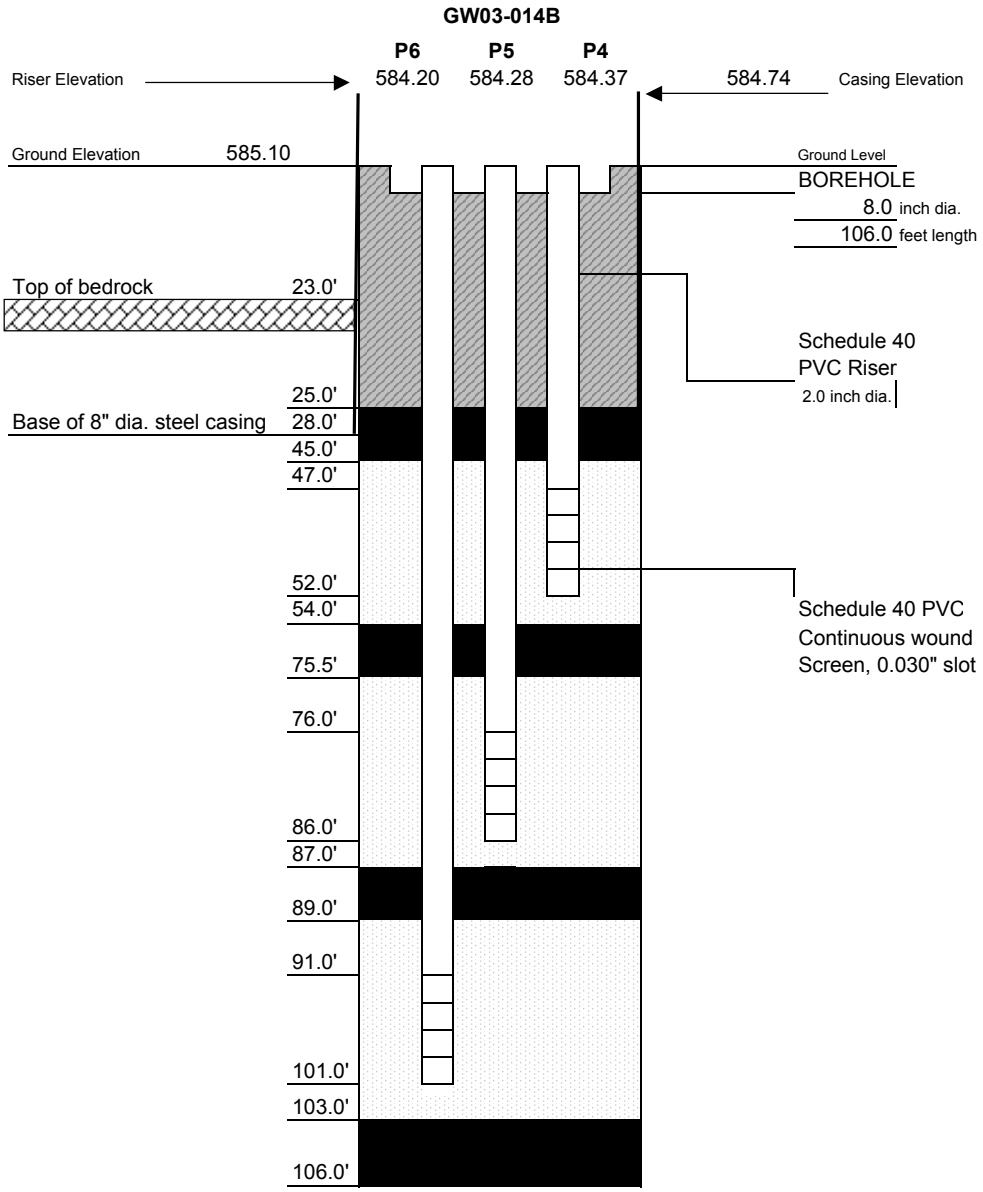
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
7/31/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
84.96	8/24/03	P1
120.06	8/24/03	P2
37.51	8/24/03	P3
26.83	8/24/03	P4
25.88	8/24/03	P5
25.80	8/24/03	P6
26.43	8/24/03	P7
29.82	10/13/03	P1
117.97	10/13/03	P2
37.30	10/7/03	P3
26.55	10/6/03	P4
24.97	10/6/03	P5
26.80	10/7/03	P6
26.74	10/6/03	P7
31.20	12/9/03	P1
117.60	12/9/03	P2
38.05	12/9/03	P3
27.96	12/5/03	P4
30.19	12/8/03	P5
29.31	12/8/03	P6
28.91	12/4/03	P7

WELL DESIGN



CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-014B P4-P6

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

Rig Make/Model:
Versa Drill and Foremost

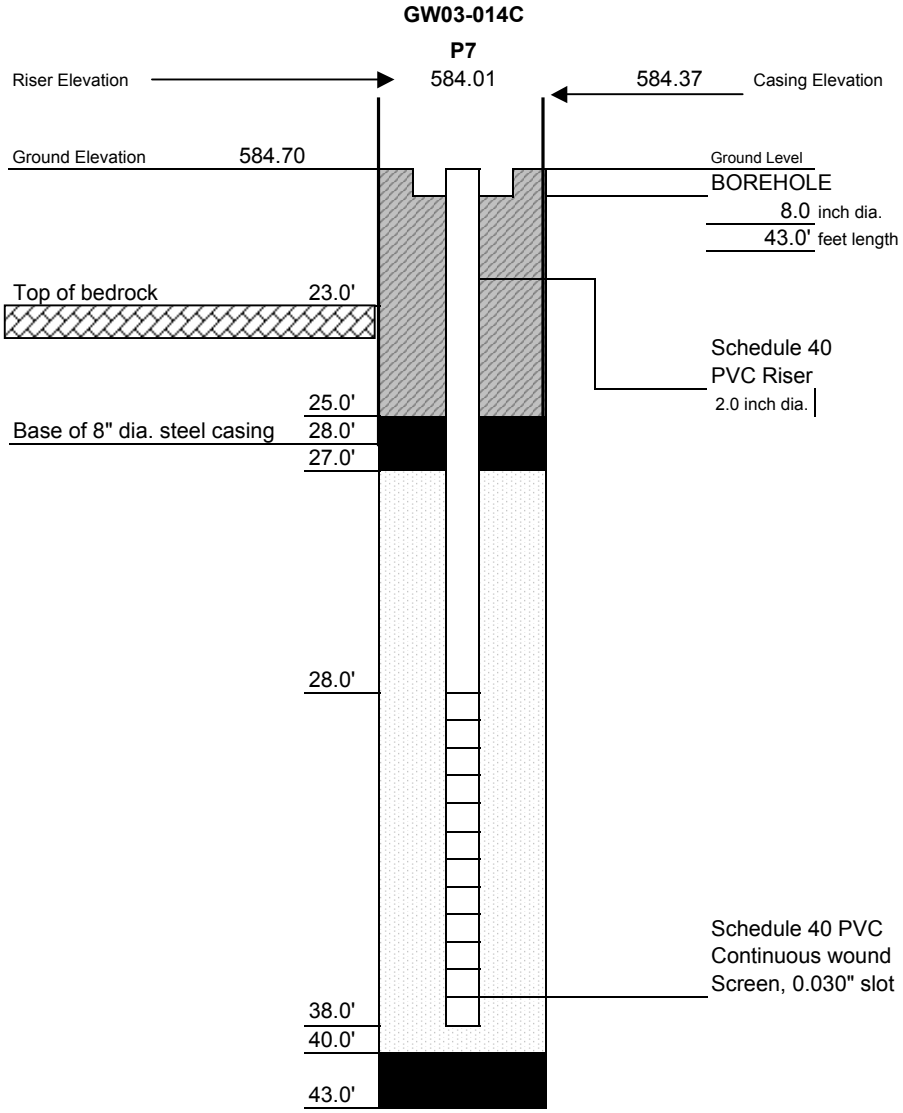
Installation Date:
7/31/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
84.96	8/24/03	P1
120.06	8/24/03	P2
37.51	8/24/03	P3
26.83	8/24/03	P4
25.88	8/24/03	P5
25.80	8/24/03	P6
26.43	8/24/03	P7
29.82	10/13/03	P1
117.97	10/13/03	P2
37.30	10/7/03	P3
26.55	10/6/03	P4
24.97	10/6/03	P5
26.80	10/7/03	P6
26.74	10/6/03	P7
31.20	12/9/03	P1
117.60	12/9/03	P2
38.05	12/9/03	P3
27.96	12/5/03	P4
30.19	12/8/03	P5
29.31	12/8/03	P6
28.91	12/4/03	P7

D E P T H

WELL DESIGN



CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand *SEAL MATERIAL* Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-014C-P7

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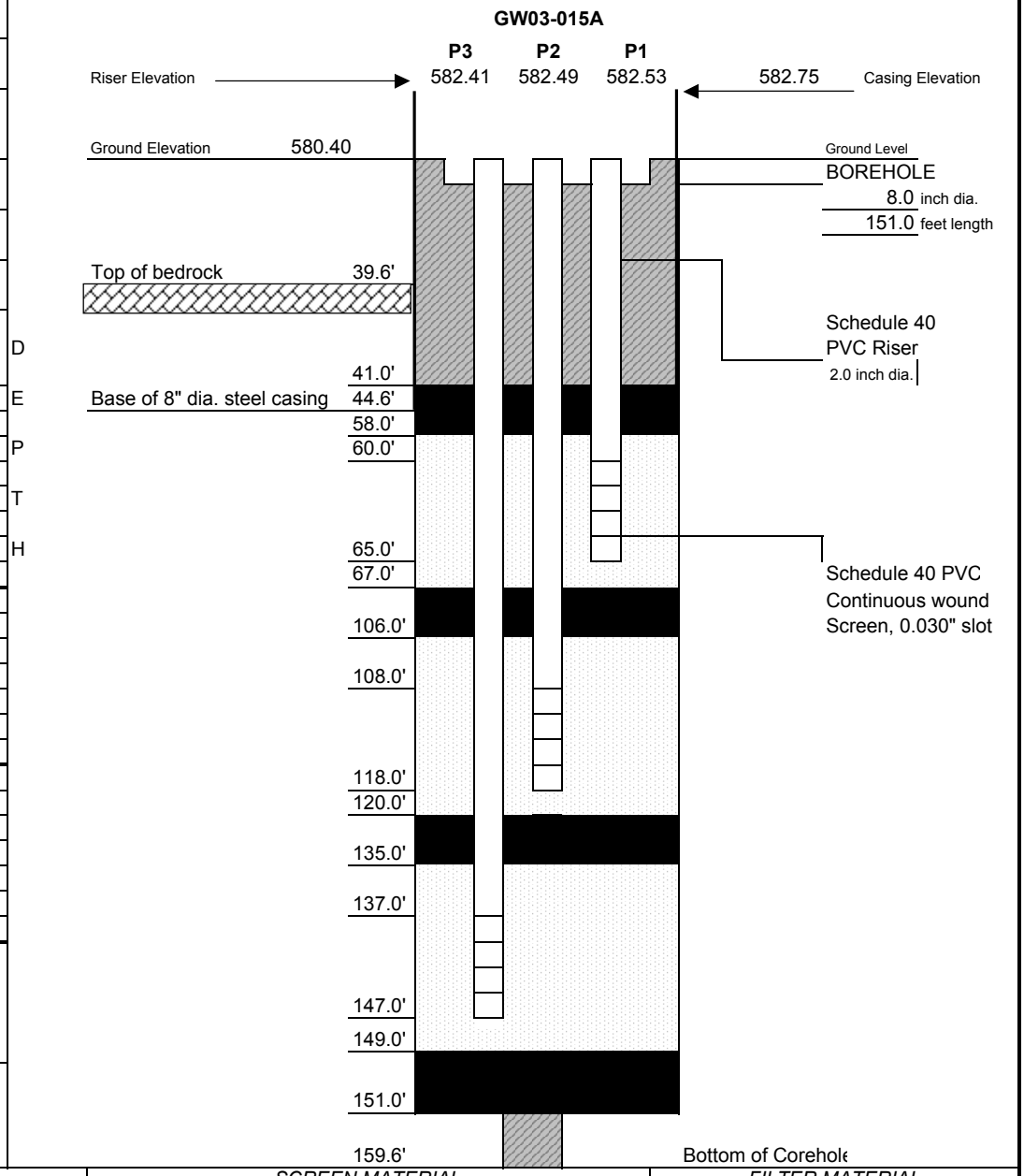
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 7/31/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
23.30	8/24/03	P1
48.65	8/24/03	P2
147.00	8/24/03	P3
22.82	8/24/03	P4
23.30	8/24/03	P5
23.22	8/24/03	P6
24.67	8/24/03	P7
23.97	10/3/03	P1
26.78	10/6/03	P2
144.98	10/13/03	P3
23.70	10/3/03	P4
22.53	10/6/03	P5
22.63	10/6/03	P6
24.79	10/2/03	P7
26.11	12/8/03	P1
28.95	12/2/03	P2
141.89	12/9/03	P3
25.61	12/8/03	P4
26.03	12/10/03	P5
26.37	12/9/03	P6
27.15	12/9/03	P7



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-015A P1-P3

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

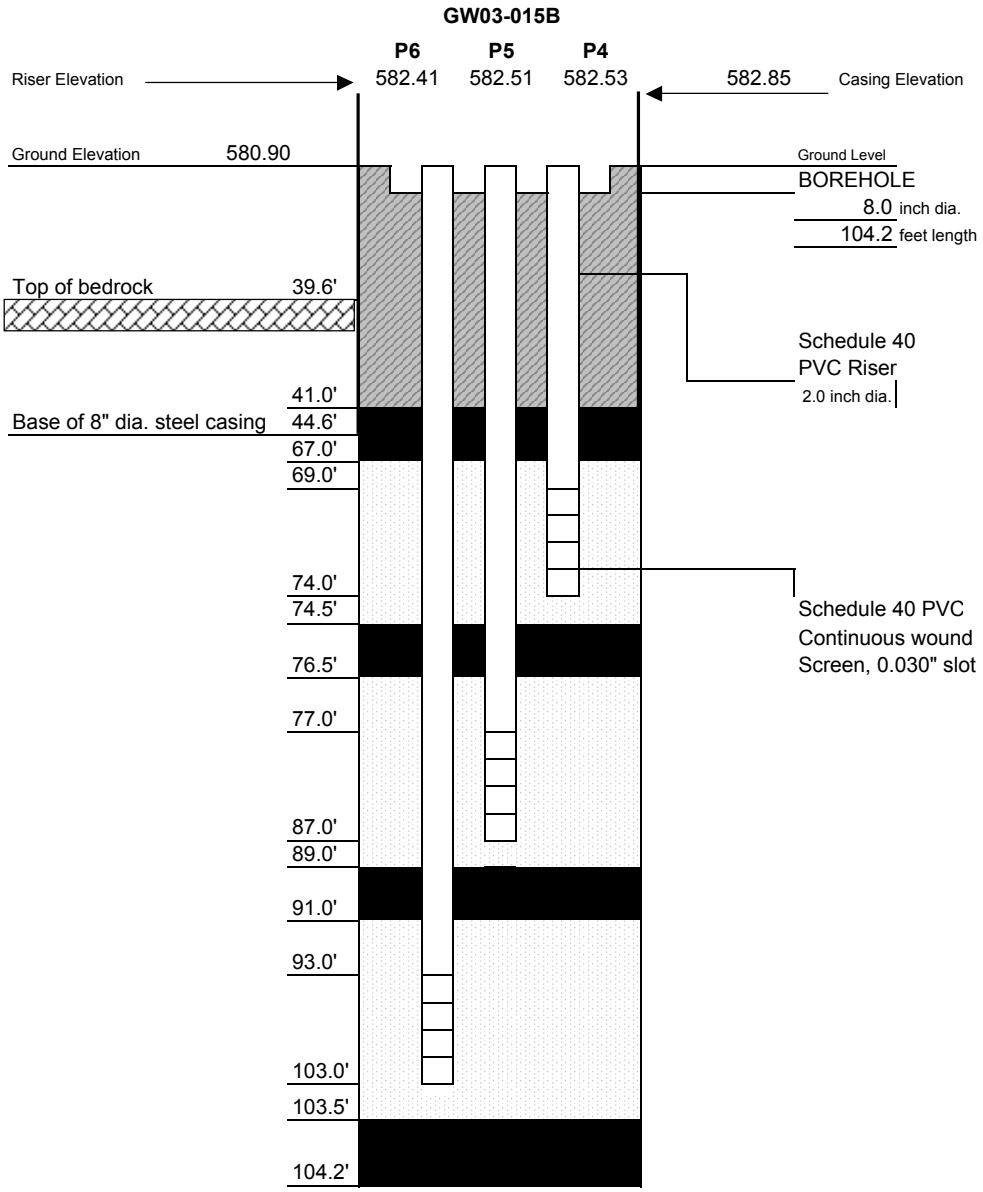
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
8/5/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
23.30	8/24/03	P1
48.65	8/24/03	P2
147.00	8/24/03	P3
22.82	8/24/03	P4
23.30	8/24/03	P5
23.22	8/24/03	P6
24.67	8/24/03	P7
23.97	10/3/03	P1
26.78	10/6/03	P2
144.98	10/13/03	P3
23.70	10/3/03	P4
22.53	10/6/03	P5
22.63	10/6/03	P6
24.79	10/2/03	P7
26.11	12/8/03	P1
28.95	12/2/03	P2
141.89	12/9/03	P3
25.61	12/8/03	P4
26.03	12/10/03	P5
26.37	12/9/03	P6
27.15	12/9/03	P7

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-015B P4-P6

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

Rig Make/Model:
Versa Drill and Foremost

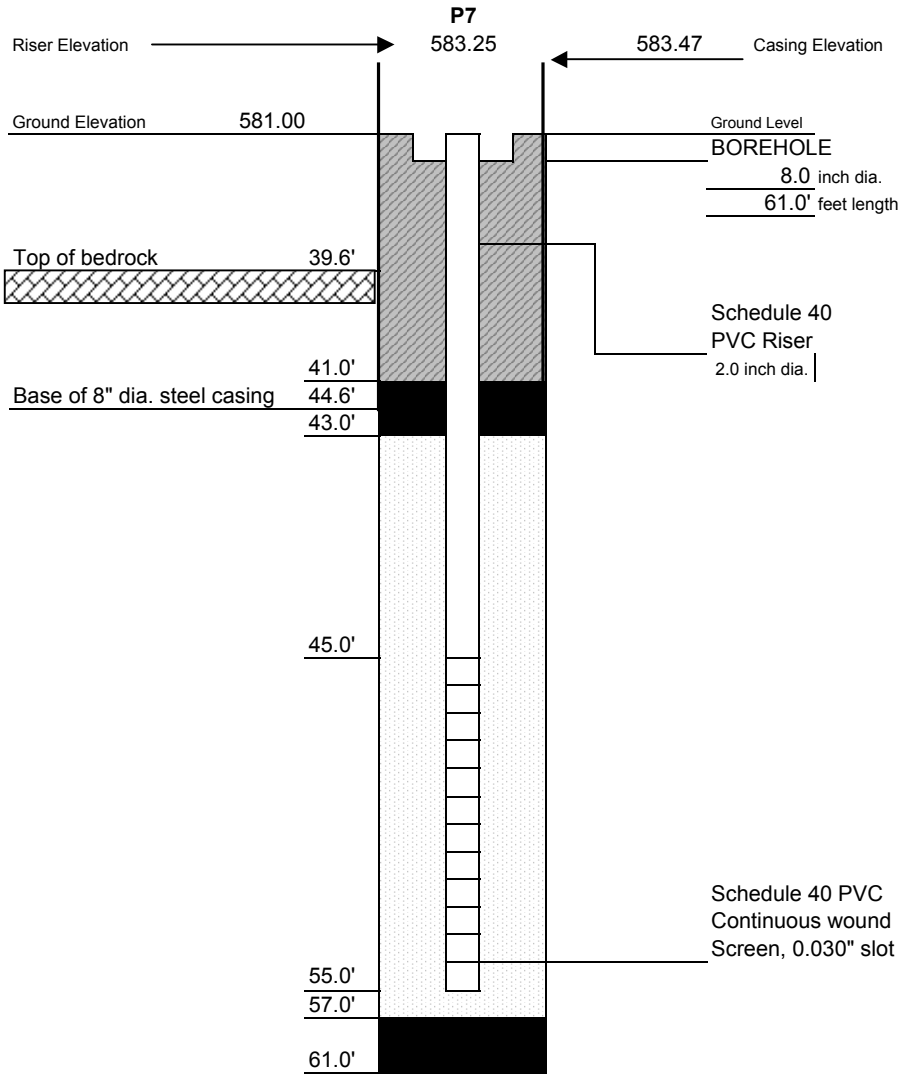
Installation Date:
8/5/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
23.30	8/24/03	P1
48.65	8/24/03	P2
147.00	8/24/03	P3
22.82	8/24/03	P4
23.30	8/24/03	P5
23.22	8/24/03	P6
24.67	8/24/03	P7
23.97	10/3/03	P1
26.78	10/6/03	P2
144.98	10/13/03	P3
23.70	10/3/03	P4
22.53	10/6/03	P5
22.63	10/6/03	P6
24.79	10/2/03	P7
26.11	12/8/03	P1
28.95	12/2/03	P2
141.89	12/9/03	P3
25.61	12/8/03	P4
26.03	12/10/03	P5
26.37	12/9/03	P6
27.15	12/9/03	P7

D E P T H

GW03-015C
P7



WELL DESIGN

CASING MATERIAL	*SCREEN MATERIAL*	*FILTER MATERIAL*
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand *SEAL MATERIAL* Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-015C-P7

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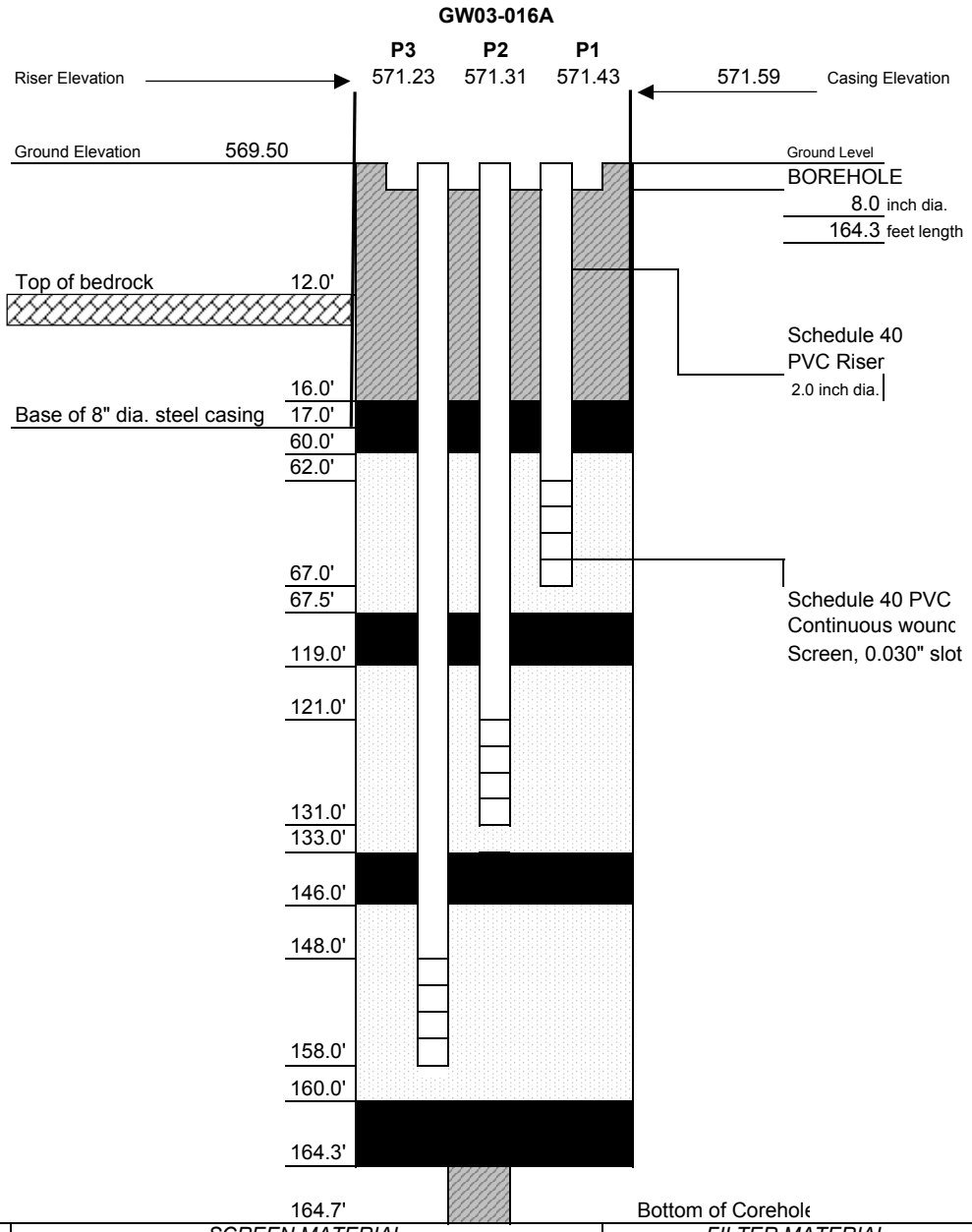
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 8/5/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
12.13	8/24/03	P1
12.35	8/24/03	P2
12.05	8/24/03	P3
13.16	8/24/03	P4
12.82	8/24/03	P5
11.92	8/24/03	P6
13.45	8/24/03	P7
12.12	8/24/03	P8
12.21	9/29/03	P1
12.50	9/30/03	P2
12.20	9/29/03	P3
13.23	9/29/03	P4
12.52	9/29/03	P5
11.85	9/30/03	P6
14.10	9/30/03	P7
12.06	9/30/03	P8
15.68	12/12/03	P1
15.81	12/16/03	P2
15.58	12/11/03	P3
16.38	12/12/03	P4
16.64	12/17/03	P5
15.07	12/15/03	P6
16.35	12/15/03	P7
15.32	12/17/03	P8

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Gas in P3

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-016A P1-P3

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

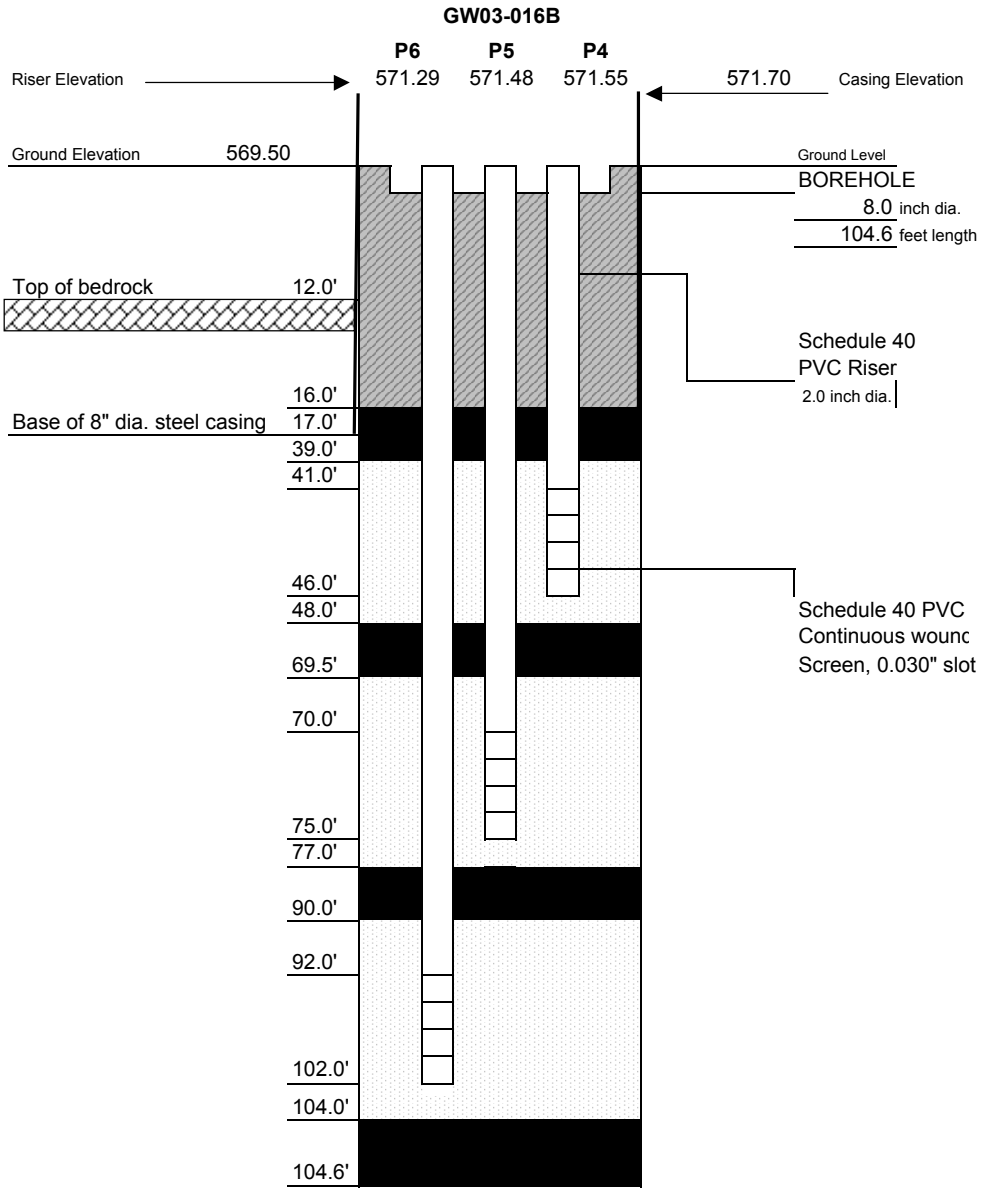
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
8/5/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
12.13	8/24/03	P1
12.35	8/24/03	P2
12.05	8/24/03	P3
13.16	8/24/03	P4
12.82	8/24/03	P5
11.92	8/24/03	P6
13.45	8/24/03	P7
12.12	8/24/03	P8
12.21	9/29/03	P1
12.50	9/30/03	P2
12.20	9/29/03	P3
13.23	9/29/03	P4
12.52	9/29/03	P5
11.85	9/30/03	P6
14.10	9/30/03	P7
12.06	9/30/03	P8
15.68	12/12/03	P1
15.81	12/16/03	P2
15.58	12/11/03	P3
16.38	12/12/03	P4
16.64	12/17/03	P5
15.07	12/15/03	P6
16.35	12/15/03	P7
15.32	12/17/03	P8

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Gas in P3

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-016B P4-P6

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

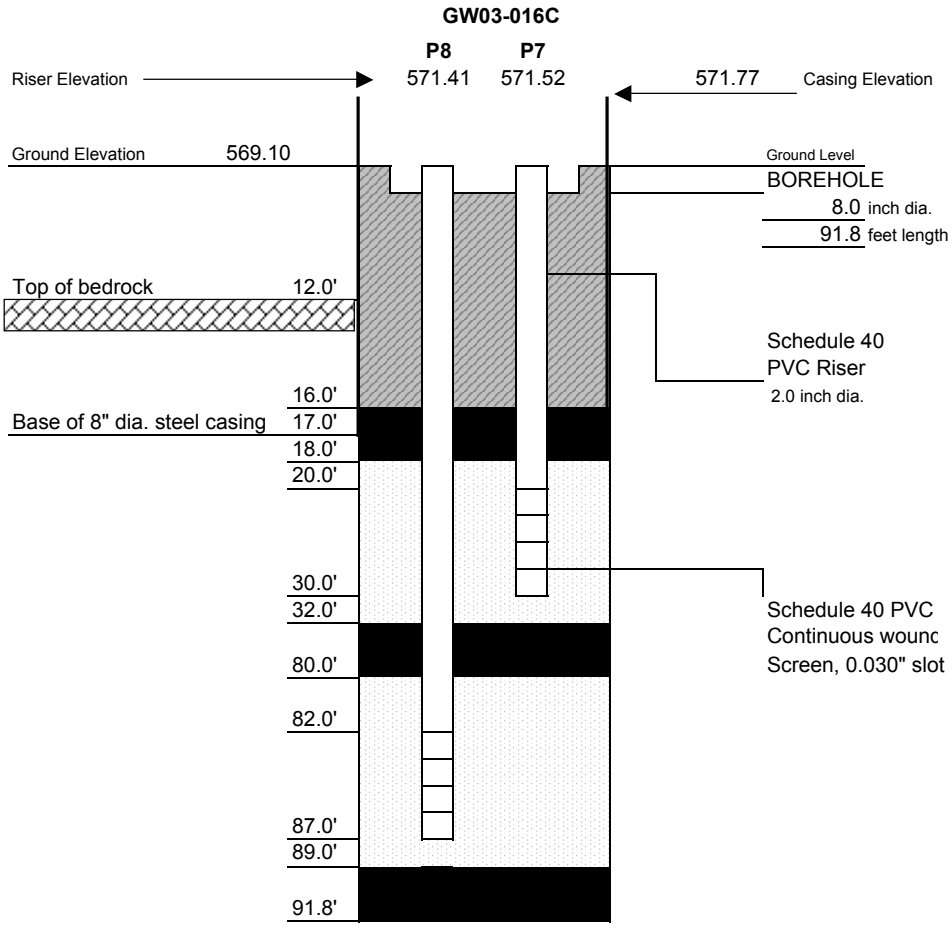
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
8/5/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
12.13	8/24/03	P1
12.35	8/24/03	P2
12.05	8/24/03	P3
13.16	8/24/03	P4
12.82	8/24/03	P5
11.92	8/24/03	P6
13.45	8/24/03	P7
12.12	8/24/03	P8
12.21	9/29/03	P1
12.50	9/30/03	P2
12.20	9/29/03	P3
13.23	9/29/03	P4
12.52	9/29/03	P5
11.85	9/30/03	P6
14.10	9/30/03	P7
12.06	9/30/03	P8
15.68	12/12/03	P1
15.81	12/16/03	P2
15.58	12/11/03	P3
16.38	12/12/03	P4
16.64	12/17/03	P5
15.07	12/15/03	P6
16.35	12/15/03	P7
15.32	12/17/03	P8

D E P T H



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Gas in P3

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-016C P7-P8

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

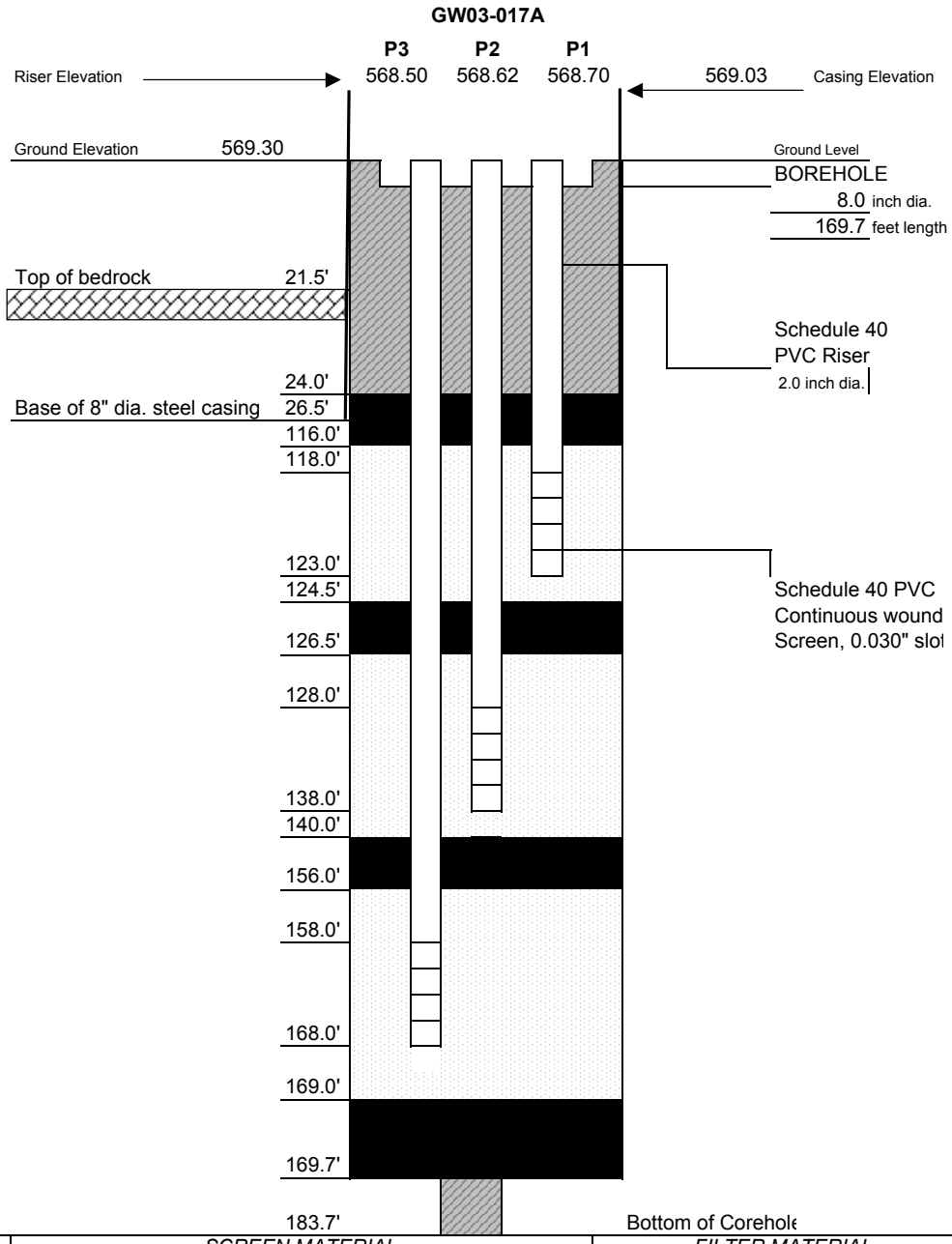
Rig Make/Model:
Versa Drill and Foremost

Installation Date:
8/6/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
8.87	8/24/03	P1
8.25	8/24/03	P2
>150	8/24/03	P3
7.62	8/24/03	P4
7.67	8/24/03	P5
7.75	8/24/03	P6
7.96	8/24/03	P7
7.88	8/24/03	P8
9.48	8/24/03	P9
8.0	9/24/03	P1
7.92	9/24/03	P2
160.92	9/24/03	P3
7.81	9/24/03	P4
9.51	9/24/03	P5
10.10	9/25/03	P6
8.08	9/24/03	P7
7.68	9/24/03	P8
8.19	9/24/03	P9
12.26	12/16/03	P1
11.68	12/12/03	P2
130.18	12/16/03	P3
9.91	12/10/03	P4
12.09	12/11/03	P5
11.64	12/11/03	P6
10.54	12/10/03	P7
10.63	12/15/03	P8
11.40	12/17/03	P9

WELL DESIGN



CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Gas in P1 and P8

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-017A P1-P3

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DRILLING SUMMARY

Geologist:
Scott McCabe

Drilling Company:
American Auger

Driller:
Ryan Baye

Rig Make/Model:
Versa Drill and Foremost

Installation Date:
8/6/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
8.87	8/24/03	P1
8.25	8/24/03	P2
>150	8/24/03	P3
7.62	8/24/03	P4
7.67	8/24/03	P5
7.75	8/24/03	P6
7.96	8/24/03	P7
7.88	8/24/03	P8
9.48	8/24/03	P9
8.0	9/24/03	P1
7.92	9/24/03	P2
160.92	9/24/03	P3
7.81	9/24/03	P4
9.51	9/24/03	P5
10.10	9/25/03	P6
8.08	9/24/03	P7
7.68	9/24/03	P8
8.19	9/24/03	P9
12.26	12/16/03	P1
11.68	12/12/03	P2
130.18	12/16/03	P3
9.91	12/10/03	P4
12.09	12/11/03	P5
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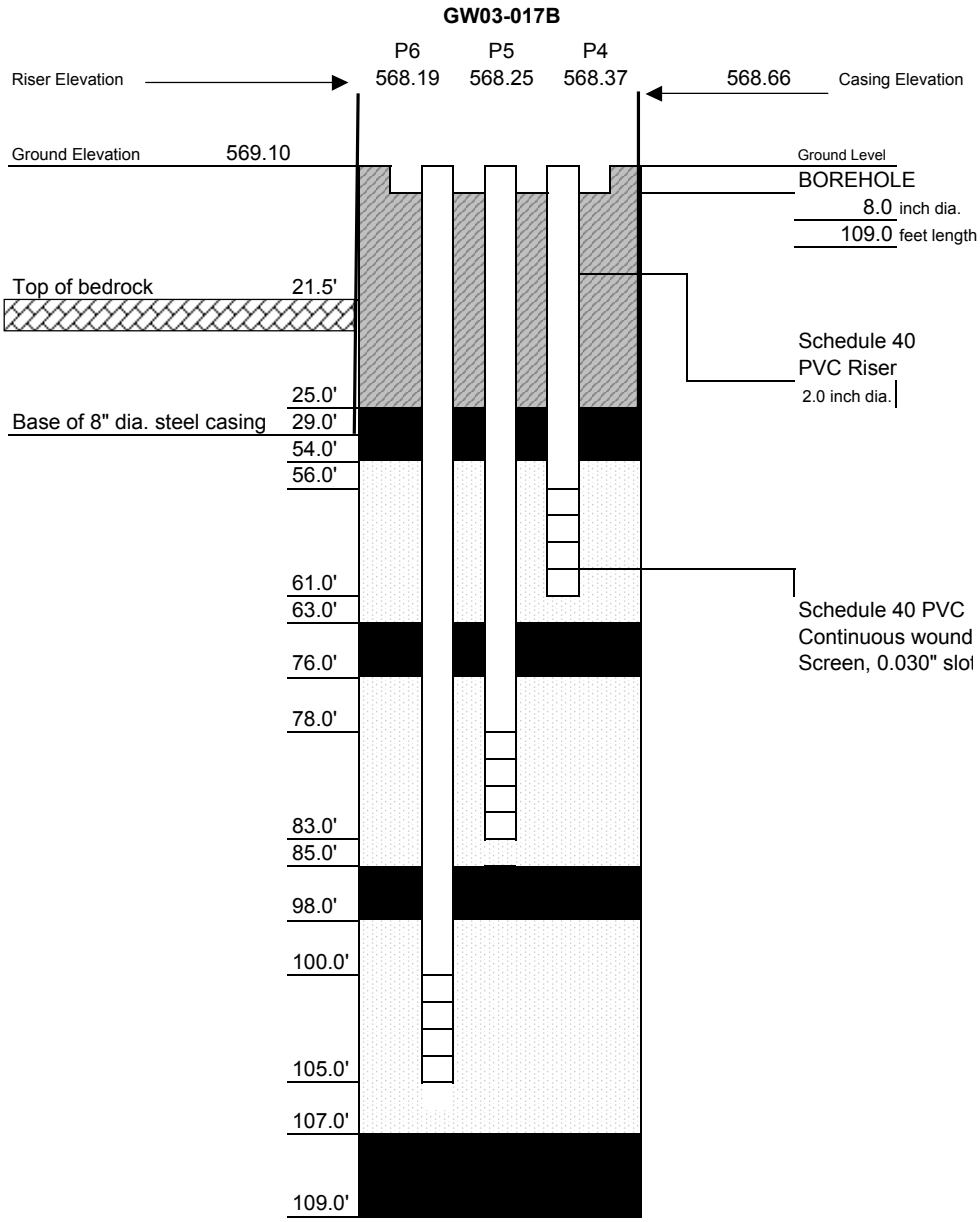
11.40	12/17/03	P9



WELL DESIGN

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand **SEAL MATERIAL** Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Gas in P1 and P8

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-017B P4-P6

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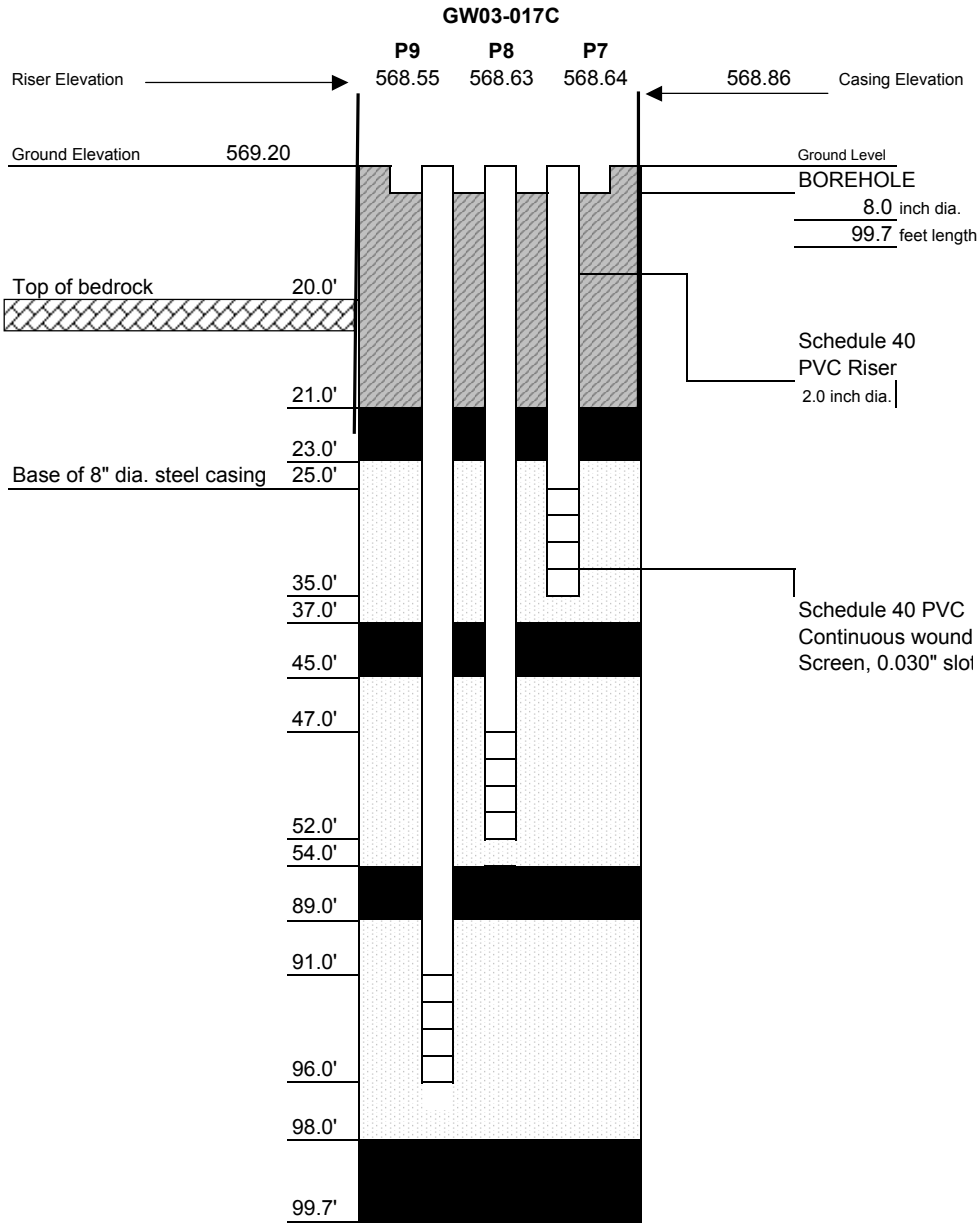
DRILLING SUMMARY
Geologist: Scott McCabe
Drilling Company: American Auger
Driller: Ryan Baye
Rig Make/Model: Versa Drill and Foremost
Installation Date: 8/6/2003

Water levels
(Recorded after well installation and during groundwater sampling)

Depth(ft.)	Date	Piezometer
8.87	8/24/03	P1
8.25	8/24/03	P2
>150	8/24/03	P3
7.62	8/24/03	P4
7.67	8/24/03	P5
7.75	8/24/03	P6
7.96	8/24/03	P7
7.88	8/24/03	P8
9.48	8/24/03	P9
8.0	9/24/03	P1
7.92	9/24/03	P2
160.92	9/24/03	P3
7.81	9/24/03	P4
9.51	9/24/03	P5
10.10	9/25/03	P6
8.08	9/24/03	P7
7.68	9/24/03	P8
8.19	9/24/03	P9
12.26	12/16/03	P1
11.68	12/12/03	P2
130.18	12/16/03	P3
9.91	12/10/03	P4
12.09	12/11/03	P5
11.64	12/11/03	P6
10.54	12/10/03	P7
10.63	12/15/03	P8
11.40	12/17/03	P9

WELL DESIGN



D E P T H

CASING MATERIAL	SCREEN MATERIAL	FILTER MATERIAL
Surface: Steel riser with 'j-plug' cap	Type: Schedule 40 PVC Continuous slot Slot Size: 0.030"	Type: FilPro #2 sand
		SEAL MATERIAL
		Type: Hole Plug 3/8" Bentonite Chips Type: Concrete/ Bentonite Grout

COMMENTS: Preliminary NX Corehole was reamed to 8" diameter using a Versa Drill rig utilizing an air hammer. A Foremost rig was used during well installation

Note: Gas in P1 and P8

LEGEND

- Cement/Bentonite Grout
- Bentonite Seal
- Silica Sandpack

Client: NYPA	**Location:** Niagara County, New York	**Project No.:** 11171932
URS Corporation	**MONITORING WELL CONSTRUCTION DETAILS**	**Well Number:** GW03-017 P7-P9

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APPENDIX D

PIEZOMETER DEVELOPMENT LOGS

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-001 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Craig Taylor

DATE(S): 8/11/2003

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	28.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	5.01	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	23.69	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.03	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	12.08	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	90	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	1	5	10	15	25	35	40	45	80	90	
pH	6.1	6.5	6.5	6.4	6.5	6.6	6.6	6.6	6.8	6.7	
SPEC. COND. (umhos)	4150	4180	4330	4260	4336	4345	4283	4303	4315	4301	
TEMPERATURE (°C)	18.5	13.9	13.5	12.8	13.0	13.1	13.2	13.0	13.0	12.6	
TURBIDITY (NTU)	>1000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
ORP (Mv)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-001 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Craig Taylor

DATE(S): 8/11/2003

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	52.30	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	6.51	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	45.79	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	7.78	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	23.35	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	20	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	10	20									
pH	6.8	6.8									
SPEC. COND. (umhos)	9185	13880									
TEMPERATURE (°C)	15.3	15.1									
TURBIDITY (NTU)	>1000	414									
ORP (Mv)	N/A	N/A									

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-002 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Craig Taylor

DATE(S): 8/11/2003

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	30.10	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.55	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	21.55	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.66	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	10.99	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	15	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	2	4	5	6	7	8	9	10	12	15	
pH	7.0	6.9	7.1	7.1	7.0	7.0	7.0	7.1	7.0	7.1	
SPEC. COND. (umhos)	1529	2171	1518	1534	1525	1491	1492	1499	1518	1533	
TEMPERATURE (°C)	16.1	16.3	15.5	14.4	14.1	15.3	14.7	15.1	15.0	15.3	
TURBIDITY (NTU)	>1000	>1000	>1000	396	439	267	107	73	30	28	
ORP (Mv)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-002 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Craig Taylor

DATE(S): 8/11/2003

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	48.40	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.60	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	39.80	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.77	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	20.30	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	13	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	3	5	8	9	11	13					
pH	7.0	7.0	7.0	7.1	6.9	6.8					
SPEC. COND. (umhos)	2664	3440	3276	3469	4251	4598					
TEMPERATURE (°C)	14.4	13.4	13.1	13.9	13.9	14.1					
TURBIDITY (NTU)	622	326	310	321	275	205					
ORP (Mv)	N/A	N/A	N/A	N/A	N/A	N/A					

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-003 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	30.10	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.16	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	17.94	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.05	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	9.15	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	30	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	7.1	7.2	7.1	7.1	7.1	7.2	7.1	7.1	7.1	7.1	7.1
SPEC. COND. (umhos)	1943	1746	1769	1790	1805	1785	1783	1776	1770	1764	1757
TEMPERATURE (°C)	18.1	14.6	13.7	13.7	14.6	14.7	14.3	14.5	14.1	14.2	14.9
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	694	>1000	>1000	358	177	105
ORP (Mv)	-141	-117	-99	-82	-71	-44	-49	-41	-40	-38	-36

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-003 P-1

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	30.10	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.16	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	17.94	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.05	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	9.15	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	30	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	22	24	26	28	30						
pH	7.1	7.1	7.1	7.1	7.1						
SPEC. COND. (umhos)	1748	1747	1748	1747	1761						
TEMPERATURE (°C)	14.8	14.2	14.0	14.0	14.0						
TURBIDITY (NTU)	67	40	29	24	19						
ORP (Mv)	-35	-35	-32	-31	-28						

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-003 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	50.30	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.29	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	38.01	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.46	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	19.39	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	20	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	7.2	7.1	7.1	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
SPEC. COND. (umhos)	2240	1996	2206	2460	2644	2619	2662	2647	2644	2652	2648
TEMPERATURE (°C)	18.6	15.1	13.9	13.5	14.6	13.3	13.2	13.2	13.4	12.9	13.2
TURBIDITY (NTU)	>1000	110	88	44	63	28	44	26	19	16	13
ORP (Mv)	31	26	-64	-122	-140	-144	-151	-155	-157	-161	-157

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-004 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	17.39	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.30	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	9.09	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.55	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	4.64	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	2	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2									
pH	6.5	7.3									
SPEC. COND. (umhos)	7890	14840									
TEMPERATURE (°C)	18.3	18.1									
TURBIDITY (NTU)	301	192									
ORP (Mv)	131	-42									

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 1.5 gallons removed. Waited 1/2 hour and removed additional 1/2 gallon.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-004 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	31.15	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	11.24	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	19.91	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.38	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	10.15	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	2	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	5	6	6.5					
pH	7.0	7.0	7.1	7.1	7.1	7.1					
SPEC. COND. (umhos)	1698	1757	1641	1695	1763	1742					
TEMPERATURE (°C)	18.1	15.6	17.8	17.9	16.9	16.9					
TURBIDITY (NTU)	>1000	99	454	64	33	>1000					
ORP (Mv)	-95	-133	-99	-70	-86	-57					

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 6 gallons removed. Waited 1 hour and removed additional 1/2 gallon.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-005 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	26.12	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	2.33	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	23.79	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.04	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	12.13	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	26	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
SPEC. COND. (umhos)	6145	6213	6301	6301	6271	6252	6263	6314	6291	6330	6321
TEMPERATURE (°C)	20.1	16.0	16.7	16.6	16.3	15.9	16.3	17.9	17.6	17.9	18.2
TURBIDITY (NTU)	>1000	>1000	867	170	93	58	31	>1000	197	44	21
ORP (Mv)	-214	-211	-249	-251	-252	-248	-247	-248	-245	-253	-251

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-005 P-1

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	26.12	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	2.33	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	23.79	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.04	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	12.13	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	26	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	22	24	26								
pH	6.9	6.9	6.9								
SPEC. COND. (umhos)	6327	6284	6300								
TEMPERATURE (°C)	18.0	20.0	19.8								
TURBIDITY (NTU)	18	9	6								
ORP (Mv)	-250	-250	-249								

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-005 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/13/03, 8/21/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	46.52	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	3.65	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	42.87	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	7.29	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	21.86	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	14	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	####### 0	####### 0	2	4	6	8	10	12	14		
pH	7.3	6.4	6.9	7.1	7.5	7.4	7.4	7.5	7.5		
SPEC. COND. (umhos)	7296	8791	8912	9001	8822	8846	8919	8825	8950		
TEMPERATURE (°C)	23.6	13.5	12.4	12.4	12.7	14.2	12.9	13.6	15.9		
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000	>1000		
ORP (Mv)	-197	-153	-172	-159	-192	-200	-197	-186	-178		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well making too much methane, pump gets "air locked" and does not work. Return on 8/21/03 and use dedicated bailer to develop well, dry after 14 gallons removed, no water recovery after 1/2 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-006 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	25.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	11.97	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	13.73	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	2.33	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	7.00	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	16	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16		
pH	6.8	6.9	6.9	6.9	6.9	6.9	7.0	7.0	7.0		
SPEC. COND. (umhos)	1185	1162	1181	1186	1189	1189	1192	1193	1194		
TEMPERATURE (°C)	14.8	12.8	11.5	11.0	11.0	11.1	11.1	10.9	10.9		
TURBIDITY (NTU)	>1000	477	96	30	15	9	6	6	6		
ORP (Mv)	14	-3	-31	-49	-56	-52	-53	-48	-178		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-006 P-2

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STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	53.30	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	17.00	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	36.30	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.17	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	18.51	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	24	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	4	8	12	16	18	20	22	24		
pH	7.3	7.1	7.1	7.0	7.0	7.0	7.0	7.0	7.0		
SPEC. COND. (umhos)	3252	4000	4254	4483	4610	4583	4618	4638	4655		
TEMPERATURE (°C)	17.4	13.5	12.9	13.0	12.7	12.5	12.3	12.2	12.1		
TURBIDITY (NTU)	>1000	>1000	176	39	26	18	17	16	14		
ORP (Mv)	-160	-203	-210	-221	-224	-231	-230	-231	-234		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-006 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	75.90	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	13.55	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	62.35	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	10.60	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	31.80	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	22	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	17	20					
pH	7.0	7.2	7.4	7.2	7.1	7.1					
SPEC. COND. (umhos)	7416	4235	1979	2836	3990	4614					
TEMPERATURE (°C)	17.8	13.8	14.2	14.5	15.7	15.4					
TURBIDITY (NTU)	>1000	>1000	739	>1000	>1000	>1000					
ORP (Mv)	-15	-25	-28	14	22	4					

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 22 gallons removed, did not recharge any in 1/2 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-006 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	17.50	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.90	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	4.60	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.78	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	2.35	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	15	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	9	10	11	12	13	14
pH	7.6	8.2	7.8	7.4	7.5	7.5	7.5	7.4	7.4	7.4	7.4
SPEC. COND. (umhos)	2119	944	685	806	696	725	1024	762	710	712	723
TEMPERATURE (°C)	17.2	14.5	13.9	13.7	14.5	14.4	14.8	14.8	14.4	14.6	14.8
TURBIDITY (NTU)	>1000	>1000	739	>1000	>1000	>1000	1,000	114	74	47	31
ORP (Mv)	-200	-182	-149	-186	-17	534	-13	29	31	31	33

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 4 gallons removed. Recharged 2 gallons is 1/2 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-006 P-4

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	17.50	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.90	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	4.60	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.78	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	2.35	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	15	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	15										
pH	7.4										
SPEC. COND. (umhos)	723										
TEMPERATURE (°C)	14.5										
TURBIDITY (NTU)	33										
ORP (Mv)	41										

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 4 gallons removed. Recharged 2 gallons is 1/2 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-006 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	34.43	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	17.70	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	16.73	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	2.84	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	8.53	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	18	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	
pH	6.7	6.8	6.8	6.9	6.9	6.9	6.9	6.9	6.9	6.9	
SPEC. COND. (umhos)	5243	5665	5642	5626	5510	5459	5441	5410	5419	5409	
TEMPERATURE (°C)	15.2	12.3	11.9	11.5	11.9	11.7	11.6	11.6	11.6	11.6	
TURBIDITY (NTU)	>1000	>1000	187	58	25	12	7	5	4	4	
ORP (Mv)	-242	-258	-265	-261	-260	-261	-262	-263	-263	-261	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Strong hydrogen sulfide odor, water turns black when exposed to air.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-007 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	32.85	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	9.64	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	23.21	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.95	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	11.84	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	18	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	
pH	7.6	7.3	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.1	
SPEC. COND. (umhos)	1382	935	820	801	792	789	787	782	781	780	
TEMPERATURE (°C)	13.6	12..0	11.0	10.7	10.7	10.5	10.4	10.9	10.5	10.7	
TURBIDITY (NTU)	>1000	391	65	32	25	16	9	7	8	5	
ORP (Mv)	-11	-23	-33	-39	-43	-43	-44	-46	-46	-47	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Strong hydrogen sulfide odor, water turns black when exposed to air.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-007 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	60.40	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	19.53	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	40.87	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.95	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	20.84	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	22	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.0	7.0	7.0	7.0
SPEC. COND. (umhos)	2758	2649	2764	2804	2819	2847	2872	2900	2919	2914	2915
TEMPERATURE (°C)	13.2	11.9	11.4	11.3	11.3	11.1	11.2	11.1	11.2	11.1	11.3
TURBIDITY (NTU)	>1000	>1000	1,000	573	417	206	93	46	27	21	15
ORP (Mv)	-31	-86	-151	-174	-183	-179	-197	-204	-208	-209	-213

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-007 P-2

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	60.40	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	19.53	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	40.87	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.95	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	20.84	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	22	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	22										
pH	7.0										
SPEC. COND. (umhos)	2927										
TEMPERATURE (°C)	11.1										
TURBIDITY (NTU)	12										
ORP (Mv)	-209										

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-007 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03, 8/21/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	83.35	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	9.21	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	74.14	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	12.60	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	37.81	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	18	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	####### 0	5	8	####### 9	13	18					
pH	7.0	7.0	7.3	6.9	6.9	7.3					
SPEC. COND. (umhos)	3313	2922	2524	38770	38680	38690					
TEMPERATURE (°C)	12.4	12.2	12.7	15.3	12.6	13.0					
TURBIDITY (NTU)	>1000	50	25	>1000	30	36					
ORP (Mv)	-200	-206	-214	-294	-308	-304					

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well making too much methane, pump gets "air locked" and does not work. Return on 8/21/03 to develop well, dry after 10 gallons removed, no water recovery after 1/2 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-007 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	20.73	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	9.45	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	11.28	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.92	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	5.75	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	20	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	7.4	7.1	7.1	7.1	7.1	7.0	7.1	7.0	7.0	7.0	7.0
SPEC. COND. (umhos)	1492	1518	1540	1554	1560	1564	1568	1565	1565	1569	1571
TEMPERATURE (°C)	16.9	14.1	13.2	13.5	13.1	12.8	12.7	12.5	12.5	12.6	12.4
TURBIDITY (NTU)	>1000	>1000	>1000	566	217	126	75	49	34	22	14
ORP (Mv)	-76	-120	-136	-144	-142	-146	-147	-150	-153	-156	-161

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-007 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	42.31	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	11.83	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	30.48	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	5.18	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	15.54	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	8	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	5	6	8					
pH	7.2	7.1	7.0	7.1	7.2	7.2					
SPEC. COND. (umhos)	1514	1351	1349	1278	1308	1273					
TEMPERATURE (°C)	12.2	11.5	12.5	12.7	13.1	13.2					
TURBIDITY (NTU)	>1000	>1000	25	37	29	26					
ORP (Mv)	-178	-141	-118	-79	-41	-74					

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 8 gallons removed, no recovery after 1/2 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-008 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	31.61	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	10.10	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	21.51	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.66	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	10.97	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	20	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	7.6	7.4	7.3	7.2	7.2	7.2	7.2	7.1	7.1	7.1	7.1
SPEC. COND. (umhos)	1530	1145	972	900	849	821	805	786	778	774	768
TEMPERATURE (°C)	16.3	21.6	11.9	11.5	11.2	11.0	11.2	11.2	11.1	11.1	11.0
TURBIDITY (NTU)	>1000	>1000	562	299	159	98	60	40	30	24	19
ORP (Mv)	534	-44	-67	-70	-69	-69	-69	-68	-67	-67	-67

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-008 P-2

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STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	82.50	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	19.83	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	62.67	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	10.65	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	31.96	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	72	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	4	8	12	16	20	24	28	32	36	40
pH	7.5	7.2	7.0	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
SPEC. COND. (umhos)	2225	1953	3564	4823	5451	5740	6136	6388	6713	7064	7412
TEMPERATURE (°C)	15.3	12.9	13.2	12.8	13.3	13.0	12.5	12.4	12.2	12.4	12.4
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	1,000	535	322	235	184	175	109
ORP (Mv)	-16	-43	-88	-168	-223	-235	-234	-242	-249	-253	-255

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-008 P-2

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	82.50	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	19.83	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	62.67	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	10.65	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	31.96	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	72	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	44	48	52	56	60	64	68	74			
pH	7.1	7.0	7.1	7.0	7.0	7.1	7.0	7.1			
SPEC. COND. (umhos)	7770	7989	8253	8477	8717	8873	8950	9077			
TEMPERATURE (°C)	12.5	12.7	12.4	12.3	12.4	12.5	12.6	12.8			
TURBIDITY (NTU)	119	71	50	43	34	30	24	19			
ORP (Mv)	-254	-259	-258	-263	-250	-265	-265	-267			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-008 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	100.80	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.80	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	92.00	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	15.64	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	46.92	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	70	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	50
pH	7.1	7.0	6.5	6.8	6.2	6.8	6.9	6.8	6.8	6.8	6.8
SPEC. COND. (umhos)	1041	4434	52800	52470	52420	52760	52480	52870	52440	53070	53600
TEMPERATURE (°C)	13.7	12.4	17.1	14.1	16.2	14.6	13.2	13.0	13.2	13.2	13.4
TURBIDITY (NTU)	>1000	>1000	>1000	343	68	63	43	29	75	24	45
ORP (Mv)	-27	-19	-151	-216	-240	-267	-284	-290	-294	-295	-297

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-008 P-3

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	100.80	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.80	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	92.00	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	15.64	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	46.92	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	70	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55	60	65	70							
pH	6.8	6.8	6.8	6.8							
SPEC. COND. (umhos)	53610	54100	54890	55240							
TEMPERATURE (°C)	13.3	13.6	13.1	12.9							
TURBIDITY (NTU)	18	20	12	9							
ORP (Mv)	-297	-299	-294	-291							

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-008 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	24.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	10.45	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	14.25	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	2.42	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	7.27	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	16	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16		
pH	7.2	7.3	7.2	7.2	7.1	7.1	7.1	7.1	7.1		
SPEC. COND. (umhos)	1171	88	808	796	793	792	790	791	790		
TEMPERATURE (°C)	15.1	13.2	12.1	11.9	11.9	11.8	11.7	11.6	11.6		
TURBIDITY (NTU)	>1000	>1000	580	88	38	21	16	12	10		
ORP (Mv)	-16	-60	-67	-60	-54	-53	-53	-52	-52		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-008 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	40.75	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	10.37	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	30.38	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	5.16	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	15.49	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	21	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12	15	18	21			
pH	7.1	7.2	7.1	7.1	7.1	7.1	7.1	7.1			
SPEC. COND. (umhos)	1448	1045	1010	991	982	977	978	975			
TEMPERATURE (°C)	13.2	11.7	11.2	11.1	11.1	11.4	11.3	11.1			
TURBIDITY (NTU)	>1000	>1000	240	104	26	15	12	7			
ORP (Mv)	-36	-64	-73	-77	-77	-76	-74	-73			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-008 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/14/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	62.80	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	11.70	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	51.10	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	8.69	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	26.06	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	13	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	4	8	10	12						
pH	7.1	7.2	7.2	7.5	7.2						
SPEC. COND. (umhos)	1066	845	740	892	1257						
TEMPERATURE (°C)	12.1	11.5	11.9	14.9	12.6						
TURBIDITY (NTU)	>1000	155	24	>1000	>1000						
ORP (Mv)	-47	-21	3	-8	-27						

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 13 gallons removed, no recovery after 1/2 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-009 P-1

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STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	52.82	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	19.75	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	33.07	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	5.62	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	16.87	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	21	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12	15	18	21			
pH	6.8	7.9	7.2	7.2	7.1	7.2	7.2	7.2			
SPEC. COND. (umhos)	852	843	848	838	849	850	857	847			
TEMPERATURE (°C)	15.2	14.5	13.7	12.7	12.8	12.9	12.7	12.5			
TURBIDITY (NTU)	>1000	>1000	56	102	33	28	17	8			
ORP (Mv)	-106	-148	-158	-158	-167	-143	-155	-141			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-009 P-2

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STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	87.79	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	29.72	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	58.07	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	9.87	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	29.62	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	50	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	50
pH	7.1	7.4	7.5	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
SPEC. COND. (umhos)	1568	2522	2073	2265	2309	2341	2339	2336	2328	2343	2341
TEMPERATURE (°C)	13.8	13.3	14.6	13.7	13.2	12.8	12.5	12.3	12.7	12.6	12.4
TURBIDITY (NTU)	>1000	420	133	584	214	73	42	24	17	13	10
ORP (Mv)	-235	-216	-223	-226	-216	-211	-209	-209	-206	-205	-208

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-009 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	117.16	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	23.35	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	93.81	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	15.95	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	47.84	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	35	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35			
pH	7.1	6.9	6.9	7.0	7.0	7.1	7.2	6.8			
SPEC. COND. (umhos)	2589	8867	14170	15620	18780	14870	18150	45440			
TEMPERATURE (°C)	15.5	13.8	13.4	13.1	14.3	13.7	12.7	14.3			
TURBIDITY (NTU)	>1000	553	348	199	193	359	420	317			
ORP (Mv)	-87	-108	-179	-226	-246	-241	-229	-277			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 30 gallons removed. Well recharged 5 gallons after 1 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-009 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	24.97	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	17.28	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.69	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.31	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.92	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	32	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	7.8	7.5	7.3	7.2	7.2	7.2	7.1	7.1	7.0	7.1	7.1
SPEC. COND. (umhos)	5650	3539	3025	3024	3034	3139	3097	3037	3009	3066	2998
TEMPERATURE (°C)	17.4	14.7	13.8	13.6	13.5	15.2	14.0	13.6	13.8	14.2	14.3
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	216	967	1,000	867	521	206	195
ORP (Mv)	-150	-146	-143	-136	-127	-109	-84	-66	-28	-14	8

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-009 P-4

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	24.97	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	17.28	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.69	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.31	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.92	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	32	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	22	24	26	28	30	32					
pH	7.1	7.1	7.2	7.1	7.1	7.2					
SPEC. COND. (umhos)	3008	2958	2951	2950	2942	2937					
TEMPERATURE (°C)	14.6	14.3	14.6	14.2	15.1	14.8					
TURBIDITY (NTU)	123	113	90	36	21	26					
ORP (Mv)	16	22	32	35	36	39					

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-009 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	45.00	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	18.76	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	26.24	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.46	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	13.38	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	6	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6							
pH	7.8	7.4	7.2	7.2							
SPEC. COND. (umhos)	2638	2487	3024	3079							
TEMPERATURE (°C)	17.2	15.1	14.1	14.2							
TURBIDITY (NTU)	>1000	>1000	>1000	>1000							
ORP (Mv)	27	25	32	33							

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 6 gallons removed. Well recoverd 1/2 gallons in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-009 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	70.89	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	17.36	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	53.53	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	9.10	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	27.30	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	12	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	12							
pH	7.5	7.1	7.1	7.1							
SPEC. COND. (umhos)	2946	3657	3111	3081							
TEMPERATURE (°C)	18.0	14.3	14.5	18.2							
TURBIDITY (NTU)	>1000	>1000	379	489							
ORP (Mv)	-8	-13	-15	-29							

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 13 gallons removed. Well had no recovery in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-010 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Tim Burmeier

DATE(S): 8/12/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	74.50	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	25.51	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	48.99	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	8.33	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	24.98	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	28	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	16	20	24	26	27		
pH	5.8	6.8	6.9	7.0	7.2	7.1	7.1	7.1	7.2		
SPEC. COND. (umhos)	1425	1727	2188	2306	2271	2322	2355	2348	2350		
TEMPERATURE (°C)	18.8	15.1	13.9	13.8	16.6	13.8	14.6	15.0	15.4		
TURBIDITY (NTU)	205	>1000	>1000	>1000	>1000	130	306	429	253		
ORP (Mv)	143	-151	-209	-224	-190	-225	-188	-182	-182		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 15.5 gallons removed. Well recovered 3 gallons in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-010 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Tim Burmeier

DATE(S): 8/12/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	104.07	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	21.73	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	82.34	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	14.00	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	41.99	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	45	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	30	40	45			
pH	7.2	7.0	6.9	7.0	7.0	7.0	7.0	7.0			
SPEC. COND. (umhos)	1236	2832	2830	2829	2831	2826	2813	2826			
TEMPERATURE (°C)	15.5	13.5	11.7	11.6	11.9	12.0	12.1	11.7			
TURBIDITY (NTU)	41	973	181	28	657	17	61	18			
ORP (Mv)	-61	-45	-43	-38	-39	-34	-31	-31			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-010 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Tim Burmeier

DATE(S): 8/12/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	128.43	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	20.40	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	108.03	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	18.37	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	55.10	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	25	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	20	25						
pH	7.3	7.2	7.1	7.1	7.1						
SPEC. COND. (umhos)	1227	1777	1292	1315	2976						
TEMPERATURE (°C)	16.5	15.2	14.5	16.6	15.3						
TURBIDITY (NTU)	8	142	19	33	322						
ORP (Mv)	61	56	41	39	34						

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 25 gallons removed. Well recharged 1 foot in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-010 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Tim Burmeier

DATE(S): 8/12/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	48.20	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	18.83	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	29.37	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.99	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	14.98	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	65	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	15	25	35	45	55	65			
pH	7.6	7.4	7.3	7.2	7.2	7.2	7.2	7.2			
SPEC. COND. (umhos)	1435	1442	1458	1466	1481	1483	1490	1502			
TEMPERATURE (°C)	19.0	13.9	12.6	13.2	12.5	12.4	12.0	12.1			
TURBIDITY (NTU)	>1000	>1000	738	262	142	91	57	38			
ORP (Mv)	69	64	36	12	1	-8	-14	-21			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-010 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	61.15	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	22.10	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	39.05	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.64	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	19.92	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	30	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12	15	18	21	24	27	30
pH	7.3	7.2	7.2	7.1	7.2	7.1	7.1	7.1	7.1	7.1	7.1
SPEC. COND. (umhos)	1593	1459	1435	1419	1415	1414	1403	1405	1401	1396	1396
TEMPERATURE (°C)	14.3	12.6	12.2	12.0	11.9	12.0	12.0	12.0	11.9	11.9	11.9
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	293	137	68	39	32	26	23
ORP (Mv)	-201	-170	-147	-146	-145	-135	-131	-129	-126	-126	-117

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-010 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/13/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	88.20	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	27.40	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	60.80	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	10.34	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	31.01	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	50	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	50
pH	7.3	7.1	7.1	7.1	7.1	7.0	7.1	7.1	7.1	7.1	7.0
SPEC. COND. (umhos)	1210	1262	1474	2490	2282	2696	2849	2883	2897	2883	2887
TEMPERATURE (°C)	24.0	17.3	16.3	16.5	15.7	15.1	15.3	15.0	15.0	14.7	14.5
TURBIDITY (NTU)	>1000	83	86	131	106	170	113	66	32	22	23
ORP (Mv)	-31	-72	-83	-219	-222	-233	-241	-245	-246	-239	-240

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-010 P-7

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Tim Burmeier

DATE(S): 8/12/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	26.73	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	18.74	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	7.99	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.36	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	4.07	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	70	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30	40	50	60	70			
pH	7.4	7.3	7.8	7.2	7.1	7.1	7.1	7.1			
SPEC. COND. (umhos)	3346	2139	1844	1758	1700	1667	1635	1613			
TEMPERATURE (°C)	19.5	13.3	21.6	12.4	12.2	12.4	11.8	12.7			
TURBIDITY (NTU)	>1000	>1000	>1000	535	239	157	118	106			
ORP (Mv)	74	60	56	49	41	30	28	27			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	73.05	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	36.22	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	36.83	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.26	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	18.78	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	39	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12	15	18	21	24	27	30
pH	7.6	7.5	7.4	7.3	7.2	7.2	7.2	7.3	7.2	7.2	7.2
SPEC. COND. (umhos)	1847	2120	2015	1939	1909	1888	1880	1877	1876	1879	1880
TEMPERATURE (°C)	11.6	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.4	11.3	11.3
TURBIDITY (NTU)	>1000	>1000	>1000	616	368	259	211	1,000	71	63	42
ORP (Mv)	-196	-105	-125	-139	-132	-165	-138	-142	-136	-171	-177

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-1

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	73.05	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	36.22	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	36.83	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.26	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	18.78	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	39	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	33	36	39								
pH	7.2	7.2	7.1								
SPEC. COND. (umhos)	1879	1880	1880								
TEMPERATURE (°C)	11.3	11.2	11.2								
TURBIDITY (NTU)	35	33	28								
ORP (Mv)	-161	-198	-167								

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	107.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	20.00	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	87.70	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	14.91	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	44.73	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	55	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	50
pH	6.2	6.3	6.4	6.5	6.7	6.8	6.9	6.9	6.9	6.9	7.0
SPEC. COND. (umhos)	8637	8696	7553	7264	6948	6768	6531	6410	6168	6106	6082
TEMPERATURE (°C)	11.6	11.5	11.5	11.4	11.5	11.4	11.5	11.5	11.5	11.5	11.3
TURBIDITY (NTU)	>1000	>1000	350	275	220	164	118	81	39	29	25
ORP (Mv)	-204	-205	-219	-217	-222	-226	-223	-237	-219	-234	-234

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-2

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	107.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	20.00	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	87.70	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	14.91	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	44.73	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	55	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55										
pH	7.0										
SPEC. COND. (umhos)	5987										
TEMPERATURE (°C)	11.4										
TURBIDITY (NTU)	19										
ORP (Mv)	-226										

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	133.42	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	16.89	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	116.53	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	19.81	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	59.43	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	160	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30	40	50	60	70	80	90	100
pH	6.9	7.4	7.6	6.5	6.6	6.6	6.5	6.5	6.6	6.4	6.5
SPEC. COND. (umhos)	23810	5159	3085	43450	46660	47300	47480	46580	47800	46090	48270
TEMPERATURE (°C)	15.5	13.9	13.6	13.5	13.2	13.1	12.6	12.3	12.4	12.3	2.2
TURBIDITY (NTU)	>1000	17	21	>1000	>1000	>1000	609	330	217	342	218
ORP (Mv)	-272	-248	-226	-297	-302	-301	-294	-296	-293	-291	-294

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Strong hydrogen sulfide odor and methane.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-3

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	133.42	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	16.89	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	116.53	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	19.81	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	59.43	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	160	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	110	120	130	140	150	160					
pH	6.4	6.4	6.3	6.6	6.5	6.5					
SPEC. COND. (umhos)	48310	48320	48410	48090	48400	48390					
TEMPERATURE (°C)	12.1	12.1	12.1	12.4	12.2	12.3					
TURBIDITY (NTU)	167	105	58	45	37	31					
ORP (Mv)	-287	-288	-286	-295	-298	-296					

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Strong hydrogen sulfide odor and methane.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	49.60	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.88	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	36.72	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.24	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	18.73	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	42	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12	15	18	21	24	27	30
pH	7.4	8.0	7.8	7.7	7.9	7.7	7.9	7.7	7.8	7.7	7.7
SPEC. COND. (umhos)	1030	2789	1007	979	6024	3639	1274	978	1471	977	1295
TEMPERATURE (°C)	16.6	12.2	11.9	11.8	12.0	11.9	11.9	11.7	11.7	12.1	11.8
TURBIDITY (NTU)	>1000	940	222	133	65	46	34	40	29	35	21
ORP (Mv)	8	-287	-246	-219	-255	-226	-265	-232	-289	-179	-281

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Strong hydrogen sulfide odor and methane.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-4

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	49.60	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.88	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	36.72	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.24	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	18.73	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	42	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	33	36	39	42							
pH	7.7	7.5	7.5	7.5							
SPEC. COND. (umhos)	947	944	957	944							
TEMPERATURE (°C)	11.8	11.5	11.6	11.6							
TURBIDITY (NTU)	18	17	15	9							
ORP (Mv)	-182	-174	-157	-155							

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Strong hydrogen sulfide odor and methane.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	88.60	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	17.72	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	70.88	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	12.05	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	36.15	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	18	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	6	12	18							
pH	7.8	7.6	7.9	7.8							
SPEC. COND. (umhos)	1236	1035	1006	1268							
TEMPERATURE (°C)	11.9	11.5	11.7	12.2							
TURBIDITY (NTU)	>1000	25	36	179							
ORP (Mv)	-14	-66	-81	-51							

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 18 gallons removed. Well did not recover any in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-7

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	33.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.81	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	20.89	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.55	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	10.65	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	22	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	7.8	7.8	7.7	7.8	7.7	7.6	7.6	7.6	7.6	7.5	7.5
SPEC. COND. (umhos)	1184	971	998	967	933	924	920	915	911	911	910
TEMPERATURE (°C)	13.2	11.9	11.8	11.7	11.6	11.7	11.7	11.7	11.6	11.6	11.6
TURBIDITY (NTU)	>1000	>1000	238	47	26	22	12	7	6	4	3
ORP (Mv)	-276	-238	-198	-204	-202	-197	-152	-154	-169	-170	-165

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-7

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	33.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.81	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	20.89	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.55	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	10.65	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	22	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	22										
pH	7.5										
SPEC. COND. (umhos)	910										
TEMPERATURE (°C)	11.5										
TURBIDITY (NTU)	5										
ORP (Mv)	-155										

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-011 P-8

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/18/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	61.31	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	13.62	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	47.69	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	8.11	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	24.32	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	36	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	4	8	12	16	20	24	28	32	36	
pH	6.4	7.1	7.4	7.4	7.5	7.6	7.7	7.7	7.7	7.6	
SPEC. COND. (umhos)	1141	1057	1129	1084	1085	1084	1078	1077	1076	1074	
TEMPERATURE (°C)	15.0	12.6	12.9	13.0	12.1	12.1	12.3	12.2	12.3	12.2	
TURBIDITY (NTU)	>1000	72	64	14	8	4	1	3	5	2	
ORP (Mv)	-199	-180	-149	-143	-174	-166	-175	-192	-199	-195	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-012 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	58.89	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	---	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	---	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=		5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=		6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=		8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS											
pH											
SPEC. COND. (umhos)											
TEMPERATURE (°C)											
TURBIDITY (NTU)											
ORP (Mv)											

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Note: No water is present in well, well is dry.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-012 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	111.48	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	65.29	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	46.19	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	7.85	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	23.56	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	33	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	8	12	15	18	21	24	27	30
pH	7.2	7.2	7.1	7.1	7.1	7.1	7.1	7.1	7.0	7.0	7.1
SPEC. COND. (umhos)	3849	3788	3794	3802	3810	3815	3818	3822	3826	3829	3825
TEMPERATURE (°C)	13.3	12.1	11.8	11.8	11.8	11.9	11.8	11.9	11.9	11.9	12.0
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	7,598	385	231	80	44	27	20
ORP (Mv)	17	19	21	24	25	27	28	29	30	31	32

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-012 P-2

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	111.48	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	65.29	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	46.19	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	7.85	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	23.56	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	33	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	33										
pH	7.1										
SPEC. COND. (umhos)	3824										
TEMPERATURE (°C)	12.0										
TURBIDITY (NTU)	18										
ORP (Mv)	34										

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-012 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	130.75	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	71.89	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	58.86	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	10.01	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	30.02	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	10	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10								
pH	6.8	6.8	6.9								
SPEC. COND. (umhos)	6234	7033	5510								
TEMPERATURE (°C)	14.7	12.4	12.5								
TURBIDITY (NTU)	151	14	125								
ORP (Mv)	21	23	11								

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 10 gallons removed. Well did not recover any in 1/2 hour.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-012 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	41.02	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	---	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	---	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=		5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=		6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=		8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS											
pH											
SPEC. COND. (umhos)											
TEMPERATURE (°C)											
TURBIDITY (NTU)											
ORP (Mv)											

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Note: No water is present in well, well is dry.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-012 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	66.95	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	60.26	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	6.69	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.14	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	3.41	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	12	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	5	6	7	8	9	10	11	12
pH	7.5	7.2	7.1	7.1	7.1	7.1	6.9	6.9	6.9	6.9	6.8
SPEC. COND. (umhos)	4235	4055	4014	4098	3898	3659	3697	3711	3715	3719	3724
TEMPERATURE (°C)	15.8	14.1	14.0	14.7	14.0	15.1	16.5	16.7	16.3	16.1	16.5
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	567	561	176	51	49	37
ORP (Mv)	6	19	26	44	40	85	63	57	76	65	69

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-012 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	87.96	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	66.01	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	21.95	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.73	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	11.19	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	20	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	20
pH	7.0	7.1	7.1	7.1	7.1	7.1	7.0	7.1	7.1	7.1	7.1
SPEC. COND. (umhos)	4437	4420	4439	4423	4594	4108	3922	3899	3881	3855	3846
TEMPERATURE (°C)	13.5	12.6	12.6	13.1	17.4	15.8	17.1	18.0	18.5	18.7	18.6
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000	>1000	30	6	3	2	2
ORP (Mv)	30	28	24	17	-22	-22	-29	-74	-89	-99	-99

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-012 P-7

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	26.81	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	25.95	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	0.86	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.15	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	0.44	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	0.5	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0.1										
pH	7.2										
SPEC. COND. (umhos)	1884										
TEMPERATURE (°C)	13.6										
TURBIDITY (NTU)	>1000										
ORP (Mv)	24										

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after removing .1 gallons. Well did not recover any after 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-013 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	58.34	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	41.83	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	16.51	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	2.81	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	8.42	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	10	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	5	6	7	8	9	10		
pH	7.6	7.4	7.2	7.2	7.1	7.1	7.3	7.3	7.4		
SPEC. COND. (umhos)	2497	2492	2264	2465	2492	2464	2457	2500	2477		
TEMPERATURE (°C)	15.6	15.0	14.9	15.5	14.4	13.6	13.8	14.7	13.7		
TURBIDITY (NTU)	>1000	118	110	84	1,000	1,000	1,000	96	73		
ORP (Mv)	-171	-94	-31	-20	-15	-18	-26	-32	-33		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 3 gallons removed. Well left to recharge, removed 7 additional gallons, everything stable except turbidity.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-013 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	110.65	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	43.90	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	66.75	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	11.35	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	34.04	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	50	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	50
pH	7.8	7.7	7.7	7.7	7.6	7.7	7.7	7.8	7.7	7.7	7.7
SPEC. COND. (umhos)	2810	944	892	871	861	854	852	849	845	843	841
TEMPERATURE (°C)	15.6	13.7	13.3	13.1	12.7	12.8	12.5	12.8	12.7	12.6	12.7
TURBIDITY (NTU)	>1000	286	110	54	24	12	8	7	5	4	3
ORP (Mv)	-41	-117	-178	-175	-167	-173	-192	-197	-205	-200	-202

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-013 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 2

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	133.00	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	43.92	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	89.08	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	15.14	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	45.43	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	55	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	50
pH	7.3	7.4	7.4	7.4	7.4	7.3	7.3	7.3	7.3	7.4	7.3
SPEC. COND. (umhos)	8706	4652	4717	4716	4793	4944	5223	5352	5508	5671	5874
TEMPERATURE (°C)	15.6	13.9	13.8	13.1	12.6	12.8	12.4	12.6	12.6	12.8	12.5
TURBIDITY (NTU)	>1000	>1000	29	2	3	1	2	1	1	1	3
ORP (Mv)	-16	-176	-199	-213	-212	-221	-215	-224	-219	-224	-231

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-013 P-3

PROJECT NO.: 11171932.00006 Page: 2 of 2

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	133.00	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	43.92	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	89.08	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	15.14	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	45.43	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	55	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	55										
pH	7.3										
SPEC. COND. (umhos)	5916										
TEMPERATURE (°C)	12.5										
TURBIDITY (NTU)	2										
ORP (Mv)	-226										

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-013 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	45.30	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	42.60	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	2.70	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.46	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	1.38	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	2	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	1	1.5	2							
pH	7.3	7.4	7.5	7.6							
SPEC. COND. (umhos)	2483	2485	2478	2461							
TEMPERATURE (°C)	13.6	13.3	14.5	16.8							
TURBIDITY (NTU)	>1000	>1000	>1000	>1000							
ORP (Mv)	-105	23	29	33							

COMMENTS: Wells developed dedicated HDPE bailer and dedicated nylon rope. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after .5 gallons removed. Well recharged .5 gallons in 1/2 hour, everything stable except turbidity.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-013 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	72.38	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	43.89	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	28.49	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.84	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	14.53	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	14	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	10	14			
pH	7.2	7.2	9.4	7.9	7.4	7.2	7.2	7.3			
SPEC. COND. (umhos)	2208	2152	2274	2254	2314	2162	2241	2220			
TEMPERATURE (°C)	15.8	13.8	14.4	14.2	13.6	14.3	14.6	14.8			
TURBIDITY (NTU)	>1000	122	131	>1000	>1000	>1000	726	427			
ORP (Mv)	-145	-185	-203	-178	-200	-186	-147	-118			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 14 gallons removed. Well recharged did not recharge any in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-013 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	84.10	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	45.00	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	39.10	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	6.65	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	19.94	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	30	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12	15	18	21	24	27	30
pH	7.2	7.2	7.2	7.3	7.3	7.4	7.3	7.4	7.4	7.4	7.4
SPEC. COND. (umhos)	2792	2321	2935	1598	1196	1202	1138	1108	1066	1071	1084
TEMPERATURE (°C)	14.2	15.1	15.6	13.9	13.6	13.5	13.6	13.9	14.5	13.8	13.9
TURBIDITY (NTU)	>1000	25	18	802	248	207	181	90	34	18	17
ORP (Mv)	-64	-37	-20	-23	-47	-42	-54	-61	-58	-50	-49

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-013 P-7

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	37.41	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	35.75	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	1.66	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	0.28	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	0.85	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	3.5	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	1	2	3	3.5						
pH	7.5	7.4	7.5	7.4	7.5						
SPEC. COND. (umhos)	1319	1321	1324	1323	1281						
TEMPERATURE (°C)	12.9	12.0	13.2	13.5	14.0						
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	>1000						
ORP (Mv)	-161	-124	-18	-30	-37						

COMMENTS: Wells developed dedicated HDPE bailer and dedicated nylon rope. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Everything stable except for turbidity.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-014 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	72.45	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	27.70	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	44.75	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	7.61	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	22.82	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	12	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12						
pH	8.0	8.4	9.5	9.6	7.8						
SPEC. COND. (umhos)	2180	1879	1842	2138	2963						
TEMPERATURE (°C)	13.2	13.0	13.5	13.9	15.3						
TURBIDITY (NTU)	>1000	135	114	86	247						
ORP (Mv)	-181	-153	-163	-125	-88						

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 12 gallons removed. Well did not recharge after 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-014 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	121.95	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	26.86	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	95.09	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	16.17	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	48.50	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	25	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25					
pH	7.5	7.5	7.5	7.7	8.3	7.2					
SPEC. COND. (umhos)	5013	4250	3747	3314	2253	2140					
TEMPERATURE (°C)	13.0	12.9	13.4	14.0	14.9	21.3					
TURBIDITY (NTU)	>1000	21	8	6	>1000	586					
ORP (Mv)	-143	-121	-67	-184	-154	-196					

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 25 gallons removed. Well did not recharge after 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-014 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	146.60	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	28.30	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	118.30	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	20.11	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	60.33	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	85	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30	40	50	60	70	75	80	85
pH	7.6	6.9	6.8	7.3	6.6	6.5	6.3	6.4	6.4	6.4	6.4
SPEC. COND. (umhos)	7941	41600	59610	32120	30580	40190	90690	96730	105000	105900	106300
TEMPERATURE (°C)	15.6	13.9	13.7	14.3	13.9	15.0	14.5	14.6	15.1	15.3	15.5
TURBIDITY (NTU)	>1000	>1000	596	123	97	58	43	67	39	42	37
ORP (Mv)	30	-123	-163	-163	-138	-118	-186	-194	-198	-210	-215

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Strong hydrogen sulfide and methane.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-014 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	51.20	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	26.35	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	24.85	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.22	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	12.67	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	18	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	
pH	10.2	8.3	6.7	6.9	7.0	7.1	7.0	7.0	7.0	7.0	
SPEC. COND. (umhos)	1410	1590	1658	1645	1644	1653	1654	1655	1651	1651	
TEMPERATURE (°C)	14.4	13.0	13.1	12.8	13.1	12.9	12.8	13.1	12.9	12.8	
TURBIDITY (NTU)	>1000	>1000	529	224	121	117	39	30	18	19	
ORP (Mv)	-134	-59	-26	-23	-48	-69	-54	-44	-42	-46	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-014 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	85.15	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	26.10	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	59.05	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	10.04	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	30.12	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	40	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40		
pH	7.4	7.3	6.9	7.1	6.9	6.9	6.9	6.8	6.9		
SPEC. COND. (umhos)	1829	1784	1797	1799	1801	1797	1799	1797	1795		
TEMPERATURE (°C)	13.0	12.3	12.1	11.8	11.8	11.9	11.8	11.9	11.9		
TURBIDITY (NTU)	>1000	55	20	13	9	6	6	4	4		
ORP (Mv)	-146	-172	-142	-167	-162	-167	-176	-179	-183		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-014 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	100.25	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	26.00	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	74.25	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	12.62	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	37.87	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	45	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	
pH	8.0	7.8	7.7	7.7	7.7	771.0	7.6	7.6	7.6	7.6	
SPEC. COND. (umhos)	686	643	627	626	636	648	653	658	665	664	
TEMPERATURE (°C)	13.5	12.1	12.0	12.0	12.0	11.9	11.9	11.9	11.9	11.9	
TURBIDITY (NTU)	>1000	86	55	15	5	2	1	1	2	1	
ORP (Mv)	-84	-85	-89	-86	-88	-83	-82	-87	-84	-72	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-014 P-7

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/19/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	36.90	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	26.05	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	10.85	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	1.84	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	5.53	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	18	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	
pH	7.9	7.9	7.6	7.5	7.7	7.8	7.8	7.7	7.6	7.6	
SPEC. COND. (umhos)	1273	1168	1406	1220	1233	1238	1241	1239	1252	1264	
TEMPERATURE (°C)	15.0	14.0	14.0	12.7	12.5	12.9	12.3	12.3	12.1	12.1	
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	756	361	113	46	39	41	
ORP (Mv)	-6	-34	-78	-49	-119	-139	-143	-152	-145	-143	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-015 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	66.46	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	23.80	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	42.66	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	7.25	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	21.76	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	24	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12	15	18	21	24		
pH	7.1	7.8	8.1	7.7	7.7	7.8	7.8	7.9	7.8		
SPEC. COND. (umhos)	726	807	488	387	358	334	329	323	325		
TEMPERATURE (°C)	14.4	14.1	14.5	14.5	14.2	14.7	15.1	15.3	14.9		
TURBIDITY (NTU)	>1000	>1000	791	41	19	8	9	6	4		
ORP (Mv)	-60	-15	-8	-10	-27	-16	-15	-13	-16		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-015 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	119.72	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	25.85	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	93.87	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	15.96	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	47.87	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	35	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35			
pH	7.8	7.8	7.7	8.1	8.8	8.8	7.7	7.5			
SPEC. COND. (umhos)	1863	1111	988	1328	964	1849	5813	4027			
TEMPERATURE (°C)	16.0	14.2	15.4	15.5	15.3	15.6	14.7	15.0			
TURBIDITY (NTU)	>1000	>1000	>1000	121	87	99	>1000	>1000			
ORP (Mv)	-113	-80	-34	-144	-159	-164	-215	-194			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 36 gallons removed. Well did not recover any in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-015 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	148.88	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	22.75	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	126.13	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	21.44	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	64.33	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	35	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30							
pH	8.5	7.3	8.2	7.4							
SPEC. COND. (umhos)	383	1372	657	3655							
TEMPERATURE (°C)	14.5	14.0	13.5	14.1							
TURBIDITY (NTU)	>1000	51	28	>1000							
ORP (Mv)	-112	-37	-35	-3							

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 35 gallons removed. Well did not recover any in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-015 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	76.10	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	24.15	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	51.95	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	8.83	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	26.49	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	36	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	4	8	12	16	20	24	28	32	36	
pH	7.6	7.8	7.7	7.8	7.0	7.0	6.9	7.0	7.1	7.1	
SPEC. COND. (umhos)	672	434	480	570	1484	1893	1899	1914	1889	1883	
TEMPERATURE (°C)	14.1	14.1	15.7	15.3	15.0	15.5	15.3	16.1	15.7	15.6	
TURBIDITY (NTU)	>1000	116	16	27	88	24	28	20	19	17	
ORP (Mv)	-71	-95	-101	-121	-121	-186	-184	-187	-191	-195	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 17 gallons removed. Well did not recover 10 feet in 1/4 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-015 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	88.40	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	23.90	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	64.50	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	10.97	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	32.90	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	45	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	
pH	5.9	6.4	6.7	6.8	6.9	6.9	7.1	6.9	7.0	7.1	
SPEC. COND. (umhos)	1342	1369	1300	1169	1336	1339	1324	1320	1287	1272	
TEMPERATURE (°C)	14.0	12.5	12.2	12.1	12.1	11.9	11.9	12.0	12.1	12.3	
TURBIDITY (NTU)	>1000	3	2	1	2	4	3	1	1	1	
ORP (Mv)	-125	-176	-187	-190	-190	-194	-197	-187	-189	-187	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-015 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	104.55	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	23.85	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	80.70	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	13.72	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	41.16	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	45	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	
pH	6.3	6.9	7.1	7.1	7.2	7.3	7.2	7.3	7.3	7.3	
SPEC. COND. (umhos)	813	526	453	416	397	382	381	401	397	381	
TEMPERATURE (°C)	13.1	12.1	12.3	12.3	12.1	12.2	12.1	12.2	12.5	12.3	
TURBIDITY (NTU)	>1000	19	5	2	3	2	3	1	3	2	
ORP (Mv)	-121	-161	-159	-167	-168	-157	-155	-153	-154	-157	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-015 P-7

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	56.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	25.40	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	31.30	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	5.32	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	15.96	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	18	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16	18	
pH	7.3	7.4	7.5	7.6	7.1	7.2	7.2	7.3	7.3	7.3	
SPEC. COND. (umhos)	634	567	529	511	512	511	515	518	520	524	
TEMPERATURE (°C)	13.4	13.0	13.1	12.6	12.1	12.7	12.8	12.8	12.7	12.8	
TURBIDITY (NTU)	>1000	>1000	95	19	11	7	4	4	2	1	
ORP (Mv)	-150	-128	-130	-119	-74	-80	-78	-81	-90	-89	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG

URS Corporation

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-016 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	68.80	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.57	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	56.23	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	9.56	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	28.68	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	40	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40		
pH	8.5	8.2	8.2	8.0	7.9	7.9	7.8	7.8	7.9		
SPEC. COND. (umhos)	757	661	513	472	442	425	414	415	421		
TEMPERATURE (°C)	15.7	16.5	15.1	15.0	15.1	15.0	14.9	15.1	14.8		
TURBIDITY (NTU)	>1000	34	21	12	9	14	8	6	4		
ORP (Mv)	-130	-58	-42	-28	-11	-2	6	10	13		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-016 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	132.20	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.75	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	119.45	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	20.31	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	60.92	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	70	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30	40	50	60	70			
pH	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.7			
SPEC. COND. (umhos)	1777	1851	1896	1917	1953	1940	1958	1967			
TEMPERATURE (°C)	14.6	14.2	14.0	14.3	14.0	14.1	13.9	13.6			
TURBIDITY (NTU)	>1000	108	21	6	4	3	1	3			
ORP (Mv)	-176	-195	-206	-199	-209	-219	-215	-217			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-016 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	158.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.33	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	146.37	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	24.88	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	74.65	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	90	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30	40	50	60	70	80	90	
pH	7.1	7.6	10.0	10.0	7.3	7.2	7.0	7.1	7.2	7.2	
SPEC. COND. (umhos)	11020	4422	1320	711	9239	10840	12820	10680	11130	11560	
TEMPERATURE (°C)	16.8	16.1	16.6	17.9	17.0	17.6	15.9	15.4	15.9	16.3	
TURBIDITY (NTU)	>1000	128	72	>1000	347	273	158	132	41	36	
ORP (Mv)	-71	-223	-213	-148	-123	-249	-255	-263	-277	-283	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Strong hydrogen sulfide and methane.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-016 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	48.00	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	13.55	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	34.45	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	5.86	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	17.57	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	21	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	3	6	9	12	15	18	21			
pH	7.5	7.4	7.6	7.6	7.8	7.7	7.7	7.6			
SPEC. COND. (umhos)	815	1019	711	595	522	488	469	451			
TEMPERATURE (°C)	21.0	20.9	20.4	19.3	19.4	19.2	19.2	19.2			
TURBIDITY (NTU)	>1000	750	181	71	35	25	17	13			
ORP (Mv)	-75	-64	-57	-48	-36	-43	-45	-44			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-016 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	76.70	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	13.20	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	63.50	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	10.80	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	32.39	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	45	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	
pH	8.1	6.8	7.1	7.4	7.5	7.7	7.6	7.6	7.6	7.6	
SPEC. COND. (umhos)	1564	892	545	463	393	386	359	351	347	349	
TEMPERATURE (°C)	18.4	18.0	17.6	15.1	14.5	14.8	13.9	13.9	13.9	14.0	
TURBIDITY (NTU)	>1000	>1000	>1000	>1000	256	120	97	41	42	32	
ORP (Mv)	-154	-137	-102	-85	-79	-56	-57	-44	-49	-51	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-016 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	103.50	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.50	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	91.00	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	15.47	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	46.41	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	45	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	30	35	40	45	
pH	6.5	7.1	7.3	7.5	7.5	7.6	7.7	7.7	7.7	7.8	
SPEC. COND. (umhos)	652	378	362	351	339	330	324	321	319	315	
TEMPERATURE (°C)	19.3	20.9	21.1	20.5	21.3	20.6	20.8	20.7	20.9	20.8	
TURBIDITY (NTU)	>1000	38	17	7	5	3	3	1	2	1	
ORP (Mv)	-147	-101	-91	-90	-74	-60	-64	-59	-59	-63	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-016 P-7

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	31.90	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	13.85	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	18.05	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	3.07	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	9.21	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	16	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16		
pH	7.9	8.1	8.0	7.9	7.9	7.8	7.8	7.8	7.8		
SPEC. COND. (umhos)	744	334	332	331	332	332	331	331	332		
TEMPERATURE (°C)	23.4	20.6	20.8	21.0	20.9	20.8	20.8	20.8	20.8		
TURBIDITY (NTU)	>1000	6	7	4	4	2	3	1	2		
ORP (Mv)	-143	-119	-77	-48	-24	-13	-8	-6	-6		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-016 P-8

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	88.65	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	12.65	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	76.00	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	12.92	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	38.76	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	42	8"	2.60

OR

V=0.0408 x (CASING DIAMETER)²

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	6	12	18	24	30	36	42			
pH	8.2	7.9	7.8	7.9	7.9	7.8	7.7	7.7			
SPEC. COND. (umhos)	452	441	439	436	4443	446	444	443			
TEMPERATURE (°C)	17.3	17.4	17.3	17.3	17.3	17.4	17.3	17.3			
TURBIDITY (NTU)	>1000	4	2	1	1	1	1	1			
ORP (Mv)	-205	-159	-135	-111	-92	-74	-65	-64			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-1

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	121.90	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	9.00	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	112.90	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	19.19	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	57.58	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	25	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	25							
pH	8.0	7.7	8.4	8.0							
SPEC. COND. (umhos)	392	413	762	906							
TEMPERATURE (°C)	17.5	17.3	16.0	17.9							
TURBIDITY (NTU)	>1000	86	>1000	>1000							
ORP (Mv)	17	19	-29	-78							

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 25 gallons removed. Well did not recover any in 1/2 hour.

::

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-2

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	137.45	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.83	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	128.62	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	21.87	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	65.60	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	80	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30	40	50	60	70	80		
pH	10.0	8.1	7.7	7.8	7.6	7.5	7.5	7.5	7.5		
SPEC. COND. (umhos)	867	1992	2034	2064	2091	2096	2098	2103	2107		
TEMPERATURE (°C)	15.4	14.0	14.0	14.0	13.9	13.7	13.7	13.5	13.5		
TURBIDITY (NTU)	>1000	>1000	138	47	30	18	14	10	9		
ORP (Mv)	-63	-6	3	-16	-35	-48	-56	-64	-68		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-3

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	167.40	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	7.90	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	159.50	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	27.12	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	81.35	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	35	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30							
pH	8.0	7.8	7.4	7.3							
SPEC. COND. (umhos)	407	310	1626	1142							
TEMPERATURE (°C)	15.2	16.9	14.6	14.8							
TURBIDITY (NTU)	>1000	710	1,000	23							
ORP (Mv)	-45	-21	-36	-18							

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.
Well dry after 35 gallons removed. Well did not recover any in 1/2 hour.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-4

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	59.45	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.23	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	51.22	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	8.71	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	26.12	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	32	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	4	8	12	16	20	24	28	32		
pH	6.0	7.0	7.4	7.4	7.5	7.6	7.7	7.7	7.8		
SPEC. COND. (umhos)	950	477	379	387	416	401	388	369	359		
TEMPERATURE (°C)	17.2	17.0	16.5	16.1	16.3	16.5	16.7	16.9	17.2		
TURBIDITY (NTU)	>1000	>1000	51	23	14	10	6	5	3		
ORP (Mv)	-40	-45	-23	-17	-12	-10	-7	-3	-6		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-5

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	82.50	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.30	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	74.20	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	12.61	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	37.84	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	42	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	6	12	18	24	30	36	42			
pH	6.7	7.2	7.5	7.6	7.7	7.7	7.8	7.8			
SPEC. COND. (umhos)	526	376	348	350	357	341	339	336			
TEMPERATURE (°C)	18.8	19.3	19.1	19.1	19.0	19.5	19.6	19.7			
TURBIDITY (NTU)	>1000	16	3	4	10	7	3	2			
ORP (Mv)	-51	-38	-17	-17	-15	-11	-10	-10			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-6

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	104.30	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.43	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	95.87	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	16.30	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	48.89	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	70	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	10	20	30	40	50	60	70			
pH	6.5	7.1	7.3	7.4	7.5	7.6	7.6	7.7			
SPEC. COND. (umhos)	406	395	400	379	392	392	383	382			
TEMPERATURE (°C)	17.3	16.8	16.7	16.5	16.6	16.9	17.2	17.2			
TURBIDITY (NTU)	>1000	97	14	5	1	6	5	3			
ORP (Mv)	-51	-34	-33	-11	-7	-6	-10	-7			

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-7

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	34.60	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.55	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	26.05	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	4.43	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	13.29	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	16	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	2	4	6	8	10	12	14	16		
pH	8.0	7.7	7.8	7.7	7.7	7.7	7.7	7.7	7.7		
SPEC. COND. (umhos)	616	560	519	485	477	454	458	447	445		
TEMPERATURE (°C)	18.2	17.6	17.9	18.1	17.8	17.3	18.1	18.1	18.5		
TURBIDITY (NTU)	>1000	189	41	18	21	13	9	8	7		
ORP (Mv)	32	-38	-21	-14	-18	-15	-11	-9	-7		

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-8

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	52.55	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	8.45	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	44.10	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	7.50	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	22.49	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	36	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	4	8	12	16	20	24	28	32	36	
pH	8.1	7.9	7.8	7.9	7.7	7.7	7.7	7.8	7.8	7.8	
SPEC. COND. (umhos)	555	489	464	458	460	453	457	461	460	458	
TEMPERATURE (°C)	15.1	14.3	13.7	13.5	13.6	12.8	13.0	13.0	13.2	13.3	
TURBIDITY (NTU)	>1000	>1000	812	517	193	125	66	45	37	25	
ORP (Mv)	27	-30	-20	-28	-14	-9	-13	-11	-9	-7	

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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WELL DEVELOPMENT LOG *URS Corporation*

PROJECT TITLE: NYAP 2003 GW Investigation - Phase 1 WELL NO.: GW-03-017 P-9

PROJECT NO.: 11171932.00006 Page: 1 of 1

STAFF: Scott McCabe

DATE(S): 8/20/03

			WELL ID.	VOL. (GAL/FT)
1. TOTAL CASING AND SCREEN LENGTH (FT.)	=	95.59	1"	0.04
2. WATER LEVEL BELOW TOP OF CASING (FT.)	=	9.00	2"	0.17
3. NUMBER OF FEET STANDING WATER (#1 - #2)	=	86.59	3"	0.38
4. VOLUME OF WATER/FOOT OF CASING (GAL.)	=	0.17	4"	0.66
5. VOLUME OF WATER IN CASING (GAL.)(#3 x #4)	=	14.72	5"	1.04
6. VOLUME OF WATER TO REMOVE (GAL.)(#5 x 3)	=	44.16	6"	1.50
7. VOLUME OF WATER REMOVED (GAL.)	=	30	8"	2.60

OR

$V=0.0408 \times (\text{CASING DIAMETER})^2$

ACCUMULATED VOLUME PURGED (GALLONS)

PARAMETERS	0	5	10	15	20	25	20				
pH	7.7	7.7	7.7	7.7	7.7	7.7	7.8				
SPEC. COND. (umhos)	767	508	494	432	451	439	444				
TEMPERATURE (°C)	15.9	16.8	15.5	14.6	14.5	14.7	15.1				
TURBIDITY (NTU)	>1000	195	15	11	17	7	11				
ORP (Mv)	-24	-20	-24	-13	-11	-14	-13				

COMMENTS: Wells developed using Grundfos rediflow-2 pump and dedicated HDPE tubing. Water quality measured with Myron 6P Water Quality Tester and Lamotte 2020 Turbidity Meter.

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APPENDIX E

WASTE CHARACTERIZATION ANALYTICAL RESULTS AND DATA ASSESSMENT SUMMARIES

Appendix E1 - Drilling Water

Appendix E2 - Drill Cuttings

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DATA ASSESSMENT SUMMARY INVESTIGATION-DERIVED WASTE ANALYTICAL TESTING, AQUEOUS, GROUNDWATER INVESTIGATION

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

URS collected six samples of aqueous IDW (i.e., drill water), and one field duplicate on July 22-August 8, 2003, and delivered the samples on ice to Ecology & Environment, Inc. of Lancaster, NY. A trip blank was also submitted to the lab for each sampling day. The samples were received at the laboratory intact, properly preserved (i.e., 4 °C ± 2 °C), and under proper chain-of-custody (COC). The sample location and ID listed on the COC, GW03-000, was subsequently changed to GW03-IDW1. This change was made by the laboratory at the request of URS.

The samples were analyzed for the following parameters, which were specified by the City of Niagara Falls, NY Department of Waste Water Facilities, in order to evaluate the suitability of the water sample for disposal into the city's sanitary sewer system: volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260B; semivolatile organic compounds (SVOCs) by USEPA Method 8270C; pesticides by USEPA Method 8081A; polychlorinated biphenyls PCBs by USEPA Method 8082; metals by USEPA Methods 6010B/7471A; total phosphorus by USEPA Method 365.2; total cyanide by USEPA Method 335.3; total organic carbon (TOC) by USEPA Method 9060; total recoverable phenolics by USEPA Method 420.2; and total suspended solids (TSS) by USEPA Method 160.2. The TSS analysis was subcontracted to Waste Stream Technology, Inc. of Buffalo, NY.

The analytical data were reviewed for compliance with the analytical methods and the validation criteria provided in the following USEPA Region II documents: *Evaluation of Metals Data for the CLP*, Standard Operating Procedures (SOP) No. HW-2, Revision XI, January 1992; *Validating Volatile Organic Compounds by SW-846 Method 8260B*, SOP No. HW-24, Revision 1, June 1999; *Validating Semivolatile Organic Compounds by SW-846 Method 8270*, SOP No. HW-22, Revision 2, June 2001; *Validating Pesticide/PCB Compounds by SW-846 Method 8080A*, SOP No. HW-23, Revision 0, May 1995; and *Validating PCB Compounds by SW-846 Method 8082*, SOP No. HW-23B, Revision 1, May 2002. Any qualification of data was based on the guidelines presented in the referenced USEPA Region II validation documents. The validated analytical results are presented on Table 1, and validate field QC sample results on Table 2. Definitions of data qualifiers are provided in Attachment A.

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2.0 VOCs

The percent difference (%D) between the initial calibration average relative response factor (RRF) and the RRF in the continuing calibration (CCAL) standards exceeded 20% for 2,4,5-trichlorotoluene and 2,3,6-trichlorotoluene. In accordance with the USEPA Region II validation guidelines, the non-detect results for these compounds were qualified "UJ" in samples GW03-IDW1, GW03-IDW2, GW03-IDW3, GW03-IDW4, GW03-IDW5, GW03-IDW6, and the associated trip blanks.

No other data qualifications were made, and all other data are usable as reported.

3.0 SVOCs

No data qualifications were made, and all data are usable as reported.

4.0 PESTICIDES

The reported concentration for delta-BHC in sample GW03-IDW1, and for gamma-BHC in sample GW03-IDW6, was below the quantitation limit. In both cases, the %D in concentration between the primary and confirmation gas chromatographic columns was greater than 50%. In accordance with the USEPA Region II validation guidelines, the reported results were changed to the quantitation limit and qualified "U."

The %D in concentration between the primary and confirmation gas chromatographic columns for beta-BHC and endosulfan I was greater than 100% in sample GW03-IDW4. In accordance with the USEPA Region II validation guidelines, the results for beta-BHC and endosulfan I in sample GW03-IDW4 have been qualified "R."

The %D in concentration between the primary and confirmation gas chromatographic columns for gamma-BHC and heptachlor epoxide was greater than 25% in sample GW03-IDW4. In accordance with the USEPA Region II validation guidelines, the results for gamma-BHC and heptachlor epoxide in sample GW03-IDW4 have been qualified "J."

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The %D in concentration between the primary and confirmation gas chromatographic columns for beta-BHC was greater than 70% in sample GW03-IDW6. In accordance with the USEPA Region II validation guidelines, the result for beta-BHC in sample GW03-IDW6 has been qualified "NJ."

The %D between the true and detected amounts of heptachlor epoxide in the CCAL standard exceeded 15%. In accordance the USEPA Region II validation guidelines, the detected result for heptachlor epoxide in sample GW03-IDW4 has been qualified "J."

No other data qualifications were made, and all other data are usable as reported.

5.0 PCBs

No data qualifications were made, and all data are usable as reported.

6.0 METALS

The recoveries of aluminum in the matrix spike/matrix spike duplicate (MS/MSD) analyses associated with samples GW03-IDW2, GW03-IDW2 DUP, and GW03-IDW3 exceeded the upper QC limit (i.e. >150%). In accordance with the USEPA Region II validation guidelines, the detected results for aluminum in these samples have been qualified "R."

The serial dilution analysis associated with samples GW03-IDW2 and GW03-IDW2 DUP exhibited a %D for lead and zinc that exceeded 10%. In accordance with the USEPA Region II validation guidelines, the detected results for lead and zinc in these samples have been qualified as estimated "J."

No other data qualifications were made, and all other data are usable as reported.

7.0 WET CHEMISTRY PARAMETERS

The recovery of phosphorus in the MS analysis associated with samples GW03-IDW2, GW03-IDW2 DUP, and GW03-IDW3 was below the QC limit. In accordance with the USEPA Region II validation guidelines, the results for phosphorus in these samples were qualified as "J" or "UJ."

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The recovery of cyanide in the MS analysis associated with samples GW03-IDW3, GW03-IDW4, and GW03-IDW5 was below the QC limit. In accordance with the USEPA Region II validation guidelines, the results for cyanide in these samples have been qualified as "UJ."

The recovery of TOC in the MS analysis associated with sample GW03-IDW6 was greater than the QC limit. In accordance with the USEPA Region II validation guidelines the detected result for TOC in this sample has been qualified as "J."

No other data qualifications were made, and all other data are usable as reported.

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW1	GW-03-IDW2	GW-03-IDW2	GW-03-IDW3	GW-03-IDW4
Sample ID		GW03-IDW1	GW03-IDW2	GW03-IDW2 DUP	GW03-IDW3	GW03-IDW4
Matrix		Drilling Water	Drilling Water	Drilling Water	Drilling Water	Drilling Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/22/03	07/28/03	07/28/03	07/29/03	08/05/03
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2,2-Tetrachloroethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-Trichloroethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethene (cis)	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethene (trans)	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	UG/L	5.00 U	5.00 U	5.00 U	0.447 J	5.00 U
2,3,6-Trichlorotoluene	UG/L	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ
2,3/3,4-Dichlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,5-Trichlorotoluene	UG/L	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ
2,4/2,5/2,6-Dichlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,5-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	0.235 J	5.00 U
3,4-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Chlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

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[tblRES].[MATRIX] = 'WC' AND [tblRES].[LOGDATE] >= #7/22/2003#

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW1	GW-03-IDW2	GW-03-IDW2	GW-03-IDW3	GW-03-IDW4
Sample ID		GW03-IDW1	GW03-IDW2	GW03-IDW2 DUP	GW03-IDW3	GW03-IDW4
Matrix		Drilling Water	Drilling Water	Drilling Water	Drilling Water	Drilling Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/22/03	07/28/03	07/28/03	07/29/03	08/05/03
Parameter	Units			Field Duplicate (1-1)		
Volatile Organic Compounds						
Bromodichloromethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromoform	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon Tetrachloride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chlorobenzene	UG/L	5.00 U	5.00 U	5.00 U	0.493 J	5.00 U
Chloroform	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromochloromethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Ethylbenzene	UG/L	0.205 J	5.00 U	5.00 U	5.00 U	5.00 U
Methylene Chloride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Toluene	UG/L	1.23 J	0.419 J	0.420 J	1.31 J	0.679 J
Trichloroethene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl Chloride	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Semivolatile Organic Compounds						
1,2,3,4-Tetrachlorobenzene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
1,2,4,5-Tetrachlorobenzene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
1,2,4-Trichlorobenzene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
2,3-Dichlorophenol	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
2,4,5-Trichlorophenol	UG/L	24.5 U	25.0 U	24.3 U	24.0 U	27.2 U
2,4,6-Trichlorophenol	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
2,4-Dichlorophenol	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
2,5-Dichlorophenol	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
2,6-Dichlorophenol	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
2-Chlorophenol	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW1	GW-03-IDW2	GW-03-IDW2	GW-03-IDW3	GW-03-IDW4
Sample ID		GW03-IDW1	GW03-IDW2	GW03-IDW2 DUP	GW03-IDW3	GW03-IDW4
Matrix		Drilling Water	Drilling Water	Drilling Water	Drilling Water	Drilling Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/22/03	07/28/03	07/28/03	07/29/03	08/05/03
Parameter	Units			Field Duplicate (1-1)		
Semivolatile Organic Compounds						
4-Chloro-3-methylphenol	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
4-Chlorophenol	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Acenaphthene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Benzo(a)anthracene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Butylbenzylphthalate	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Chrysene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Diethylphthalate	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Dimethylphthalate	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Di-n-butylphthalate	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Di-n-octylphthalate	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Fluoranthene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Hexachlorobenzene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Hexachlorobutadiene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Hexachlorocyclopentadiene	UG/L	24.5 U	25.0 U	24.3 U	24.0 U	27.2 U
Naphthalene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
N-Nitrosodiphenylamine	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	2.94 J
Pentachlorophenol	UG/L	24.5 U	25.0 U	24.3 U	24.0 U	27.2 U
Phenanthrene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	2.66 J
Pyrene	UG/L	9.80 U	10.0 U	9.71 U	9.62 U	10.9 U
Pesticides						
alpha-BHC	UG/L	0.0526 U	0.0500 U	0.0500 U	0.0481 U	0.170 U
beta-BHC	UG/L	0.0526 U	0.0500 U	0.0500 U	0.0481 U	R
delta-BHC	UG/L	0.105 U	0.100 U	0.100 U	0.0962 U	0.341 U

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW1	GW-03-IDW2	GW-03-IDW2	GW-03-IDW3	GW-03-IDW4
Sample ID		GW03-IDW1	GW03-IDW2	GW03-IDW2 DUP	GW03-IDW3	GW03-IDW4
Matrix		Drilling Water	Drilling Water	Drilling Water	Drilling Water	Drilling Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/22/03	07/28/03	07/28/03	07/29/03	08/05/03
Parameter	Units			Field Duplicate (1-1)		
Pesticides						
Endosulfan I	UG/L	0.0526 U	0.0500 U	0.0500 U	0.0481 U	R
Endosulfan II	UG/L	0.105 U	0.100 U	0.100 U	0.0962 U	0.341 U
Endosulfan sulfate	UG/L	0.105 U	0.100 U	0.100 U	0.0962 U	0.341 U
gamma-BHC (Lindane)	UG/L	0.0526 U	0.0500 U	0.0500 U	0.0481 U	1.58 J
Heptachlor	UG/L	0.0526 U	0.0500 U	0.0500 U	0.0481 U	0.434
Heptachlor epoxide	UG/L	0.0526 U	0.0500 U	0.0500 U	0.0481 U	0.674 J
Mirex	UG/L	1.05 U	1.00 U	1.00 U	0.962 U	3.41 U
Polychlorinated Biphenyls						
Aroclor 1248	UG/L	0.526 U	0.500 U	0.500 U	0.481 U	0.568 U
Metals						
Cadmium	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chromium	UG/L	1.17 J	3.60 J	4.62 J	21.5	4.12 J
Copper	UG/L	20.0 U	5.00 J	4.55 J	24.1	20.0 U
Lead	UG/L	11.5	30.8 J	42.0 J	227	5.00 U
Mercury	UG/L	0.400 U	0.400 U	0.400 U	0.398 J	0.400 U
Nickel	UG/L	15.3 J	15.5 J	16.1 J	24.3	20.0 U
Zinc	UG/L	155	177 J	214 J	409	3.50 J
Miscellaneous Parameters						
Cyanide	MG/L	0.01 U	0.01 U	0.01 U	0.0018 J	0.01 UJ
Total Organic Carbon (TOC)	MG/L	6.08	2.61	2.64	2.11	1.79
Total Phosphorus (As P)	MG/L	0.0292 J	0.0500 UJ	0.0208 J	0.0292 J	0.0500 U
Total Phosphorus (As PO4)	MG/L	0.0895 J	0.150 UJ	0.0637 J	0.0895 J	0.150 U
Total Recoverable Phenolics	MG/L	0.0110	0.0050 U	0.0024 J	0.0032 J	0.0082

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW1	GW-03-IDW2	GW-03-IDW2	GW-03-IDW3	GW-03-IDW4
Sample ID		GW03-IDW1	GW03-IDW2	GW03-IDW2 DUP	GW03-IDW3	GW03-IDW4
Matrix		Drilling Water	Drilling Water	Drilling Water	Drilling Water	Drilling Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/22/03	07/28/03	07/28/03	07/29/03	08/05/03
Parameter	Units			Field Duplicate (1-1)		
Miscellaneous Parameters						
Total Suspended Solids	MG/L	42.8	528	505	210	4.0 U

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW5	GW-03-IDW6
Sample ID		GW03-IDW5	GW03-IDW6 WC
Matrix		Drilling Water	Drilling Water
Depth Interval (ft)		-	-
Date Sampled		08/05/03	08/08/03
Parameter	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	5.00 U	5.00 U
1,1,2,2-Tetrachloroethane	UG/L	5.00 U	5.00 U
1,1,2-Trichloroethane	UG/L	5.00 U	5.00 U
1,1-Dichloroethene	UG/L	5.00 U	5.00 U
1,2-Dichlorobenzene	UG/L	5.00 U	5.00 U
1,2-Dichloroethene (cis)	UG/L	5.00 U	5.00 U
1,2-Dichloroethene (trans)	UG/L	5.00 U	5.00 U
1,3-Dichlorobenzene	UG/L	5.00 U	5.00 U
1,4-Dichlorobenzene	UG/L	5.00 U	5.00 U
2,3,6-Trichlorotoluene	UG/L	5.00 UJ	5.00 UJ
2,3/3,4-Dichlorotoluene	UG/L	5.00 U	5.00 U
2,4,5-Trichlorotoluene	UG/L	5.00 UJ	5.00 UJ
2,4/2,5/2,6-Dichlorotoluene	UG/L	5.00 U	5.00 U
2,4-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U
2,5-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U
2-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U
2-Chlorotoluene	UG/L	5.00 U	5.00 U
3,4-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U
3-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U
3-Chlorotoluene	UG/L	5.00 U	5.00 U
4-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U
4-Chlorotoluene	UG/L	5.00 U	5.00 U
Benzene	UG/L	5.00 U	5.00 U

Flags assigned during chemistry validation are shown.

Made By_AMK 12/18/03_
Checked By_JJL 12/18/03_

Detection Limits shown are PQL

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW5	GW-03-IDW6
Sample ID		GW03-IDW5	GW03-IDW6 WC
Matrix		Drilling Water	Drilling Water
Depth Interval (ft)		-	-
Date Sampled		08/05/03	08/08/03
Parameter	**Units**		
Volatile Organic Compounds			
Bromodichloromethane	UG/L	5.00 U	5.00 U
Bromoform	UG/L	5.00 U	5.00 U
Carbon Tetrachloride	UG/L	5.00 U	5.00 U
Chlorobenzene	UG/L	5.00 U	5.00 U
Chloroform	UG/L	5.00 U	5.00 U
Dibromochloromethane	UG/L	5.00 U	5.00 U
Ethylbenzene	UG/L	5.00 U	5.00 U
Methylene Chloride	UG/L	5.00 U	5.00 U
Tetrachloroethene	UG/L	5.00 U	5.00 U
Toluene	UG/L	5.00 U	5.00 U
Trichloroethene	UG/L	5.00 U	5.00 U
Vinyl Chloride	UG/L	10.0 U	10.0 U
Semivolatile Organic Compounds			
1,2,3,4-Tetrachlorobenzene	UG/L	11.8 U	11.5 U
1,2,4,5-Tetrachlorobenzene	UG/L	11.8 U	11.5 U
1,2,4-Trichlorobenzene	UG/L	11.8 U	11.5 U
2,3-Dichlorophenol	UG/L	11.8 U	11.5 U
2,4,5-Trichlorophenol	UG/L	29.4 U	28.7 U
2,4,6-Trichlorophenol	UG/L	11.8 U	11.5 U
2,4-Dichlorophenol	UG/L	11.8 U	11.5 U
2,5-Dichlorophenol	UG/L	11.8 U	11.5 U
2,6-Dichlorophenol	UG/L	11.8 U	11.5 U
2-Chlorophenol	UG/L	11.8 U	11.5 U

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Made By_AMK 12/18/03_
Checked By_JJL 12/18/03_

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW5	GW-03-IDW6
Sample ID		GW03-IDW5	GW03-IDW6 WC
Matrix		Drilling Water	Drilling Water
Depth Interval (ft)		-	-
Date Sampled		08/05/03	08/08/03
Parameter	**Units**		
Semivolatile Organic Compounds			
4-Chloro-3-methylphenol	UG/L	11.8 U	11.5 U
4-Chlorophenol	UG/L	11.8 U	11.5 U
Acenaphthene	UG/L	11.8 U	11.5 U
Benzo(a)anthracene	UG/L	11.8 U	11.5 U
Butylbenzylphthalate	UG/L	11.8 U	11.5 U
Chrysene	UG/L	11.8 U	11.5 U
Diethylphthalate	UG/L	11.8 U	11.5 U
Dimethylphthalate	UG/L	11.8 U	11.5 U
Di-n-butylphthalate	UG/L	11.8 U	11.5 U
Di-n-octylphthalate	UG/L	11.8 U	11.5 U
Fluoranthene	UG/L	11.8 U	11.5 U
Hexachlorobenzene	UG/L	11.8 U	11.5 U
Hexachlorobutadiene	UG/L	11.8 U	11.5 U
Hexachlorocyclopentadiene	UG/L	29.4 U	28.7 U
Naphthalene	UG/L	11.8 U	11.5 U
N-Nitrosodiphenylamine	UG/L	11.8 U	11.5 U
Pentachlorophenol	UG/L	29.4 U	28.7 U
Phenanthrene	UG/L	11.8 U	11.5 U
Pyrene	UG/L	11.8 U	11.5 U
Pesticides			
alpha-BHC	UG/L	0.0595 U	0.0633 U
beta-BHC	UG/L	0.0595 U	0.777 NJ
delta-BHC	UG/L	0.119 U	0.127 U

Flags assigned during chemistry validation are shown.

Made By_AMK 12/18/03_
Checked By_JJL 12/18/03_

Detection Limits shown are PQL

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[tblRES].[MATRIX] = 'WC' AND [tblRES].[LOGDATE] >= #7/22/2003#

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW5	GW-03-IDW6
Sample ID		GW03-IDW5	GW03-IDW6 WC
Matrix		Drilling Water	Drilling Water
Depth Interval (ft)		-	-
Date Sampled		08/05/03	08/08/03
Parameter	**Units**		
Pesticides			
Endosulfan I	UG/L	0.0595 U	0.0633 U
Endosulfan II	UG/L	0.119 U	0.127 U
Endosulfan sulfate	UG/L	0.119 U	0.127 U
gamma-BHC (Lindane)	UG/L	0.0595 U	0.0633 U
Heptachlor	UG/L	0.0595 U	0.0633 U
Heptachlor epoxide	UG/L	0.0595 U	0.0633 U
Mirex	UG/L	1.19 U	1.27 U
Polychlorinated Biphenyls			
Aroclor 1248	UG/L	0.595 U	0.633 U
Metals			
Cadmium	UG/L	5.00 U	5.00 U
Chromium	UG/L	10.0 U	6.88 J
Copper	UG/L	20.0 U	20.0 U
Lead	UG/L	5.00 U	5.00 U
Mercury	UG/L	0.400 U	0.400 U
Nickel	UG/L	2.18 J	2.10 J
Zinc	UG/L	9.40 J	16.7
Miscellaneous Parameters			
Cyanide	MG/L	0.01 UJ	0.01 U
Total Organic Carbon (TOC)	MG/L	1.63	2.30 J
Total Phosphorus (As P)	MG/L	0.0500 U	0.0500 U
Total Phosphorus (As PO4)	MG/L	0.150 U	0.150 U
Total Recoverable Phenolics	MG/L	0.0064	0.0050 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 12/18/03_

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TABLE 1
VALIDATED DRILL WATER SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW-03-IDW5	GW-03-IDW6
Sample ID		GW03-IDW5	GW03-IDW6 WC
Matrix		Drilling Water	Drilling Water
Depth Interval (ft)		-	-
Date Sampled		08/05/03	08/08/03
Parameter	Units		
Miscellaneous Parameters			
Total Suspended Solids	MG/L	4.0 U	5.6

Flags assigned during chemistry validation are shown.

Made By_AMK 12/18/03_
Checked By_JJL 12/18/03_

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TABLE 2
VALIDATED FIELD QC SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/18/03	07/28/03	07/29/03	08/05/03	08/08/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2,2-Tetrachloroethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1,2-Trichloroethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,1-Dichloroethene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichlorobenzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethene (cis)	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,2-Dichloroethene (trans)	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,3-Dichlorobenzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
1,4-Dichlorobenzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,3,6-Trichlorotoluene	UG/L	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ
2,3/3,4-Dichlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4,5-Trichlorotoluene	UG/L	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ	5.00 UJ
2,4/2,5/2,6-Dichlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,4-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2,5-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
2-Chlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3,4-Dichlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
3-Chlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorobenzotrifluoride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
4-Chlorotoluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Benzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U

Flags assigned during chemistry validation are shown.

Made By_AMK 12/18/03_
Checked By_JJL 12/18/03_

Detection Limits shown are PQL

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TABLE 2
VALIDATED FIELD QC SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		07/18/03	07/28/03	07/29/03	08/05/03	08/08/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromodichloromethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Bromoform	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Carbon tetrachloride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chlorobenzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Chloroform	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Dibromochloromethane	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Ethylbenzene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Methylene chloride	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Tetrachloroethene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Toluene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Trichloroethene	UG/L	5.00 U	5.00 U	5.00 U	5.00 U	5.00 U
Vinyl Chloride	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 12/18/03_
Checked By_JJL 12/18/03_

Detection Limits shown are PQL

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ATTACHMENT A
DEFINITIONS OF DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the sample reporting limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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DATA ASSESSMENT SUMMARY INVESTIGATION-DERIVED WASTE ANALYTICAL TESTING, DRILL CUTTINGS, GROUNDWATER INVESTIGATION

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

URS collected seventeen samples of solid IDW (i.e., drill cuttings) and one field duplicate sample on July 24-August 5, 2003, and shipped the samples on ice to Mitkem Corporation of Warwick, RI. The samples were received at the laboratory intact, properly preserved (i.e., 4 °C ± 2 °C), and under proper chain-of-custody (COC) on July 25-August 6, 2003.

The samples underwent a Toxicity Characteristic Leaching Procedure (TCLP) extraction in accordance with USEPA Method 1311. The TCLP extract was then analyzed for the following parameters in order to evaluate the suitability of the samples for disposal: TCLP volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260B; TCLP semivolatile organic compounds (SVOCs) by USEPA Method 8270C; TCLP pesticides by USEPA Method 8081A; TCLP herbicides by USEPA Method 8151; and TCLP metals by USEPA Methods 6010B/7470A. The drill cuttings were also analyzed for polychlorinated biphenyls (PCBs) by USEPA Method 8082, corrosivity by USEPA Method 9045C, reactive cyanide by USEPA Method 9014, reactive sulfide by USEPA Method 9034M, and ignitability by USEPA Method 1030.

The analytical data were reviewed for compliance with the referenced methods and the validation criteria provided in the following USEPA Region II documents: *TCLP Data Validation*, SOP No. HW-7, Revision 3, March 2003; *Validating Volatile Organic Compounds by SW-846 Method 8260B*, SOP No. HW-24, Revision 1, June 1999; *Validating Semivolatile Organic Compounds by SW-846 Method 8270*, SOP No. HW-22, Revision 2, June 2001; *Validating Pesticide/PCB Compounds by SW-846 Method 8080A*, SOP No. HW-23, Revision 0, May 1995; *Validating PCB Compounds by SW-846 Method 8082*, SOP No. HW-23B, Revision 1, May 2002; *Validating Chlorinated Herbicides by Gas Chromatography*, SOP HW-17, Revision 1.3, Nov 1994; and *Evaluation of Metals Data for the Contract Laboratory Protocol (CLP)*, Standard Operating Procedures (SOP) No. HW-2, Revision XI, January 1992. Any qualification of data was based on the guidelines presented in the referenced USEPA validation documents. The validated analytical results are presented on Table 1. Definitions of data qualifiers are provided in Attachment A.

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2.0 TCLP VOCs

The percent difference (%D) between the initial calibration (ICAL) average relative response factor (RRF) and the RRF in the continuing calibration (CCAL) standard associated with samples GW03-012, GW03-013, and GW03-017 exceeded 20% for carbon tetrachloride. In accordance with USEPA Region II validation guidelines the non-detect results for carbon tetrachloride were qualified "UJ" in these samples.

No other data qualifications were made, and all other data are usable as reported.

3.0 TCLP SVOCs

No data qualifications were made, and all data are usable as reported.

4.0 TCLP PESTICIDES

The reported concentrations for gamma-BHC in samples GW03-014 and GW03-016 were below the quantitation limit, and the %D in concentration between the primary and confirmation gas chromatographic columns was greater than 50%. In accordance with the USEPA Region II validation guidelines, the reported result for gamma-BHC was changed to the quantitation limit and qualified "U."

The reported concentrations for heptachlor in samples GW03-007DC and GW03-013 were below the quantitation limit, and the %D in concentration between the primary and confirmation gas chromatographic columns was greater than 50%. In accordance with USEPA Region II validation guidelines, the reported result for heptachlor was changed to the quantitation limit and qualified "U."

The reported concentration for heptachlor in sample GW03-012 exhibited a % D in concentration between the primary and confirmation gas chromatographic that was greater than 25%. In accordance with USEPA Region II validation guidelines, the reported result for heptachlor was qualified "J."

No other data qualifications were made, and all other data are usable as reported.

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5.0 PCBs

No data qualifications were made, and all data are usable as reported.

6.0 TCLP HERBICIDES

The %D between the ICAL calibration factor and the calibration factor in the CCAL associated with samples GW03-001, GW03-002, GW03-003, GW03-004, GW03-005, and GW03-005DUP exceeded 25% for 2,4-D and 2,4,5-TP (Silvex) on both the primary and confirmation columns. In accordance with the USEPA Region II validation guidelines, the undetected results for these compounds have been qualified as estimated "UJ."

No other data qualifications were made, and all data are usable as reported.

7.0 TCLP METALS

The concentration of arsenic (As) in samples GW03-001, GW03-002, GW03-003, GW03-004, GW03-005, GW03-005 DUP, GW03-006DC, GW03-007DC, GW03-009DC, GW03-010DC, and GW03-015 was less than ten times that detected in the associated TCLP extractor blank. In accordance with the USEPA Region II validation guidelines, the results for As in these samples have been rejected "R."

The concentration of selenium (Se) in samples GW03-001, GW03-002, GW03-003, GW03-004, GW03-005, and GW03-005 DUP was less than ten times that detected in the associated TCLP extractor blank. In accordance with the USEPA Region II validation guidelines, the results for Se in these samples have been rejected "R."

The matrix spike recovery for Se exceeded the upper QC limit. In accordance with the USEPA Region II validation guidelines the detected results for Se in samples GW03-007DC, GW03-008DC, GW03-009DC, and GW03-010DC have been qualified as estimated "J."

The serial dilution analysis associated with samples GW03-007DC, GW03-008DC, GW03-010DC, GW03-013, and GW03-017 exhibited a %D for barium (Ba) that was greater than 100%. In accordance with

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the USEPA Region II validation guidelines the detected results for Ba in these samples have been rejected "R."

The serial dilution analysis associated with samples GW03-001, GW03-002, GW03-003, GW03-004, GW03-005, and GW03-005 DUP exhibited a %D for Ba that was greater than 10%. In accordance with the validation guidelines the detected results for Ba in these samples have been qualified as estimated "J."

No other data qualifications were made, and all other data are usable as reported.

8.0 WET CHEMISTRY PARAMETERS

No data qualifications were made, and all data are usable as reported.

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A	GW03-002A	GW03-003A	GW03-004A	GW03-005A
Sample ID		GW03-001	GW03-002	GW03-003	GW03-004	GW03-005
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-59.0	0.0-58.7	0.0-44.0	0.0-35.5	0.0-59.0
Date Sampled		07/24/03	07/24/03	07/24/03	07/24/03	07/24/03
Parameter	**Units**					
TCLP Volatile Organic Compounds						
1,1-Dichloroethene	UG/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	UG/L	5 U	5 U	5 U	5 U	5 U
Benzene	UG/L	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	UG/L	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	UG/L	5 U	5 U	5 U	5 U	5 U
Chloroform	UG/L	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	UG/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	UG/L	12	10	12	11	10
Vinyl Chloride	UG/L	5 U	5 U	5 U	5 U	5 U
TCLP Semivolatile Organic Compounds						
1,4-Dichlorobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
2,4,5-Trichlorophenol	UG/L	100 U	100 U	100 U	100 U	100 U
2,4,6-Trichlorophenol	UG/L	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	UG/L	20 U	20 U	20 U	20 U	20 U
2-Methylphenol (o-cresol)	UG/L	20 U	20 U	20 U	20 U	20 U
4-Methylphenol (p-cresol)	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachlorobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachlorobutadiene	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	UG/L	20 U	20 U	20 U	20 U	20 U
Nitrobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
Pentachlorophenol	UG/L	100 U	100 U	100 U	100 U	100 U
Pyridine	UG/L	40 U	40 U	40 U	40 U	40 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

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[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A	GW03-002A	GW03-003A	GW03-004A	GW03-005A
Sample ID		GW03-001	GW03-002	GW03-003	GW03-004	GW03-005
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-59.0	0.0-58.7	0.0-44.0	0.0-35.5	0.0-59.0
Date Sampled		07/24/03	07/24/03	07/24/03	07/24/03	07/24/03
Parameter	**Units**					
TCLP Pesticides						
Endrin	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
gamma-BHC (Lindane)	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Heptachlor	UG/L	0.25 U	0.25 U	0.25 U	0.032 J	0.25 U
Heptachlor epoxide	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Methoxychlor	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Technical Chlordane	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Toxaphene	UG/L	12 U	12 U	12 U	12 U	12 U
TCLP Herbicides						
2,4,5-TP (Silvex)	UG/L	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ	0.5 UJ
2,4-D	UG/L	5 UJ	5 UJ	5 UJ	5 UJ	5 UJ
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	19 U	20 U	20 U	19 U	19 U
Aroclor 1221	UG/KG	38 U	38 U	38 U	37 U	38 U
Aroclor 1232	UG/KG	19 U	20 U	20 U	19 U	19 U
Aroclor 1242	UG/KG	19 U	20 U	20 U	19 U	19 U
Aroclor 1248	UG/KG	19 U	20 U	20 U	19 U	19 U
Aroclor 1254	UG/KG	19 U	20 U	20 U	19 U	19 U
Aroclor 1260	UG/KG	19 U	20 U	20 U	19 U	19 U
TCLP Metals						
Arsenic	UG/L	R	R	R	R	R
Barium	UG/L	508 J	416 J	659 J	358 J	232 J
Cadmium	UG/L	50 U	50 U	50 U	50 U	50 U
Chromium	UG/L	50 U	50 U	50 U	50 U	50 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A	GW03-002A	GW03-003A	GW03-004A	GW03-005A
Sample ID		GW03-001	GW03-002	GW03-003	GW03-004	GW03-005
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-59.0	0.0-58.7	0.0-44.0	0.0-35.5	0.0-59.0
Date Sampled		07/24/03	07/24/03	07/24/03	07/24/03	07/24/03
Parameter	**Units**					
TCLP Metals						
Lead	UG/L	50 U	50 U	50 U	50 U	50 U
Mercury	UG/L	10 U	10 U	10 U	10 U	10 U
Selenium	UG/L	R	R	R	R	R
Silver	UG/L	30 U	30 U	30 U	30 U	30 U
RCRA Characteristics						
Corrosivity	YES/NO	NO	NO	NO	NO	NO
Ignitability	POS/NEG	NEG	NEG	NEG	NEG	NEG
Reactive Cyanide	MG/KG	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Reactive Sulfide	MG/KG	19 U	19 U	19 U	20 U	20 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A	GW03-007A	GW03-008A	GW03-009A	GW03-010A
Sample ID		GW03-006 DC	GW03-007 DC	GW03-008 DC	GW03-009 DC	GW03-010 DC
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-93.4	0.0-99.7	0.0-110.0	0.0-129.0	0.0-144.0
Date Sampled		07/28/03	07/28/03	07/28/03	07/28/03	07/28/03
Parameter	**Units**					
TCLP Volatile Organic Compounds						
1,1-Dichloroethene	UG/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	UG/L	5 U	5 U	5 U	5 U	5 U
Benzene	UG/L	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	UG/L	5 U	5 U	5 U	5 U	5 U
Chlorobenzene	UG/L	5 U	5 U	5 U	5 U	5 U
Chloroform	UG/L	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	UG/L	5 U	5 U	5 U	1,000 J	5 U
Trichloroethene	UG/L	5 U	2 J	5 U	5 U	7
Vinyl Chloride	UG/L	5 U	5 U	5 U	5 U	5 U
TCLP Semivolatile Organic Compounds						
1,4-Dichlorobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
2,4,5-Trichlorophenol	UG/L	100 U	100 U	100 U	100 U	100 U
2,4,6-Trichlorophenol	UG/L	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	UG/L	20 U	20 U	20 U	20 U	20 U
2-Methylphenol (o-cresol)	UG/L	20 U	20 U	20 U	20 U	20 U
4-Methylphenol (p-cresol)	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachlorobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachlorobutadiene	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	UG/L	20 U	20 U	20 U	20 U	20 U
Nitrobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
Pentachlorophenol	UG/L	100 U	100 U	100 U	100 U	100 U
Pyridine	UG/L	40 U	40 U	40 U	40 U	40 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:28 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A	GW03-007A	GW03-008A	GW03-009A	GW03-010A
Sample ID		GW03-006 DC	GW03-007 DC	GW03-008 DC	GW03-009 DC	GW03-010 DC
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-93.4	0.0-99.7	0.0-110.0	0.0-129.0	0.0-144.0
Date Sampled		07/28/03	07/28/03	07/28/03	07/28/03	07/28/03
Parameter	**Units**					
TCLP Pesticides						
Endrin	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
gamma-BHC (Lindane)	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Heptachlor	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.061 J
Heptachlor epoxide	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Methoxychlor	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Technical Chlordane	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Toxaphene	UG/L	12 U	12 U	12 U	12 U	12 U
TCLP Herbicides						
2,4,5-TP (Silvex)	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
2,4-D	UG/L	5 U	5 U	5 U	5 U	5 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	17 U	17 U	20 U	17 U	18 U
Aroclor 1221	UG/KG	34 U	34 U	38 U	33 U	34 U
Aroclor 1232	UG/KG	17 U	17 U	20 U	17 U	18 U
Aroclor 1242	UG/KG	17 U	17 U	20 U	17 U	18 U
Aroclor 1248	UG/KG	17 U	17 U	20 U	17 U	18 U
Aroclor 1254	UG/KG	17 U	17 U	20 U	17 U	18 U
Aroclor 1260	UG/KG	17 U	17 U	20 U	17 U	18 U
TCLP Metals						
Arsenic	UG/L	R	R	200 U	R	R
Barium	UG/L	71.3	R	R	93.7	R
Cadmium	UG/L	50 U	50 U	50 U	50 U	50 U
Chromium	UG/L	50 U	50 U	50 U	50 U	50 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:31 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A	GW03-007A	GW03-008A	GW03-009A	GW03-010A
Sample ID		GW03-006 DC	GW03-007 DC	GW03-008 DC	GW03-009 DC	GW03-010 DC
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-93.4	0.0-99.7	0.0-110.0	0.0-129.0	0.0-144.0
Date Sampled		07/28/03	07/28/03	07/28/03	07/28/03	07/28/03
Parameter	**Units**					
TCLP Metals						
Lead	UG/L	50 U	50 U	50 U	50 U	50 U
Mercury	UG/L	10 U	10 U	10 U	10 U	10 U
Selenium	UG/L	150 U	28.5 J	32.2 J	25.2 J	32.2 J
Silver	UG/L	30 U	30 U	30 U	30 U	30 U
RCRA Characteristics						
Corrosivity	YES/NO	NO	NO	NO	NO	NO
Ignitability	POS/NEG	NEG	NEG	NEG	NEG	NEG
Reactive Cyanide	MG/KG	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Reactive Sulfide	MG/KG	20 U	20 U	20 U	20 U	20 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:34 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A	GW03-012A	GW03-013A	GW03-014A	GW03-015A
Sample ID		GW03-011 DC	GW03-012	GW03-013	GW03-014	GW03-015
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-143.0	0.0-135.2	0.0-131.7	0.0-152.0	0.0-159.0
Date Sampled		07/28/03	08/05/03	08/05/03	07/31/03	07/31/03
Parameter	**Units**					
TCLP Volatile Organic Compounds						
1,1-Dichloroethene	UG/L	5 U	5 U	5 U	5 U	5 U
1,2-Dichloroethane	UG/L	5 U	5 U	5 U	5 U	5 U
Benzene	UG/L	5 U	5 U	5 U	5 U	5 U
Carbon tetrachloride	UG/L	5 U	5 UJ	5 UJ	5 U	5 U
Chlorobenzene	UG/L	5 U	5 U	5 U	5 U	5 U
Chloroform	UG/L	5 U	5 U	5 U	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U	10 U	10 U	10 U
Tetrachloroethene	UG/L	5 U	5 U	5 U	5 U	5 U
Trichloroethene	UG/L	5 U	5 U	5 U	5 U	5 U
Vinyl Chloride	UG/L	5 U	5 U	5 U	5 U	5 U
TCLP Semivolatile Organic Compounds						
1,4-Dichlorobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
2,4,5-Trichlorophenol	UG/L	100 U	100 U	100 U	100 U	100 U
2,4,6-Trichlorophenol	UG/L	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	UG/L	20 U	20 U	20 U	20 U	20 U
2-Methylphenol (o-cresol)	UG/L	20 U	20 U	20 U	20 U	20 U
4-Methylphenol (p-cresol)	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachlorobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachlorobutadiene	UG/L	20 U	20 U	20 U	20 U	20 U
Hexachloroethane	UG/L	20 U	20 U	20 U	20 U	20 U
Nitrobenzene	UG/L	20 U	20 U	20 U	20 U	20 U
Pentachlorophenol	UG/L	100 U	100 U	100 U	100 U	100 U
Pyridine	UG/L	40 U	40 U	40 U	40 U	40 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:36 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A	GW03-012A	GW03-013A	GW03-014A	GW03-015A
Sample ID		GW03-011 DC	GW03-012	GW03-013	GW03-014	GW03-015
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-143.0	0.0-135.2	0.0-131.7	0.0-152.0	0.0-159.0
Date Sampled		07/28/03	08/05/03	08/05/03	07/31/03	07/31/03
Parameter	**Units**					
TCLP Pesticides						
Endrin	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
gamma-BHC (Lindane)	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Heptachlor	UG/L	0.25 U	0.057 J	0.25 U	0.25 U	0.25 U
Heptachlor epoxide	UG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Methoxychlor	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Technical Chlordane	UG/L	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Toxaphene	UG/L	12 U	12 U	12 U	12 U	12 U
TCLP Herbicides						
2,4,5-TP (Silvex)	UG/L	0.5 U	0.5 U	0.5 U	0.5 U	0.67
2,4-D	UG/L	5 U	5 U	5 U	5 U	5 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/KG	18 U	17 U	17 U	18 U	18 U
Aroclor 1221	UG/KG	35 U	33 U	33 U	35 U	35 U
Aroclor 1232	UG/KG	18 U	17 U	17 U	18 U	18 U
Aroclor 1242	UG/KG	18 U	17 U	17 U	18 U	18 U
Aroclor 1248	UG/KG	18 U	17 U	17 U	18 U	18 U
Aroclor 1254	UG/KG	18 U	17 U	17 U	18 U	18 U
Aroclor 1260	UG/KG	18 U	17 U	17 U	18 U	18 U
TCLP Metals						
Arsenic	UG/L	200 U	200 U	200 U	200 U	R
Barium	UG/L	82.2	192	R	130	59.7
Cadmium	UG/L	50 U	50 U	50 U	50 U	50 U
Chromium	UG/L	50 U	50 U	50 U	50 U	50 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:40 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A	GW03-012A	GW03-013A	GW03-014A	GW03-015A
Sample ID		GW03-011 DC	GW03-012	GW03-013	GW03-014	GW03-015
Matrix		Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-143.0	0.0-135.2	0.0-131.7	0.0-152.0	0.0-159.0
Date Sampled		07/28/03	08/05/03	08/05/03	07/31/03	07/31/03
Parameter	**Units**					
TCLP Metals						
Lead	UG/L	50 U	50 U	50 U	50 U	50 U
Mercury	UG/L	10 U	10 U	10 U	10 U	10 U
Selenium	UG/L	150 U	150 U	150 U	150 U	150 U
Silver	UG/L	30 U	30 U	30 U	30 U	30 U
RCRA Characteristics						
Corrosivity	YES/NO	NO	NO	NO	NO	NO
Ignitability	POS/NEG	NEG	NEG	NEG	NEG	NEG
Reactive Cyanide	MG/KG	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Reactive Sulfide	MG/KG	20 U	20 U	20 U	20 U	19 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:42 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A	GW03-017A
Sample ID		GW03-016	GW03-017
Matrix		Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-165.0	0.0-183.7
Date Sampled		07/31/03	08/05/03
Parameter	**Units**		
TCLP Volatile Organic Compounds			
1,1-Dichloroethene	UG/L	5 U	5 U
1,2-Dichloroethane	UG/L	5 U	5 U
Benzene	UG/L	0.7 J	5 U
Carbon tetrachloride	UG/L	5 U	5 UJ
Chlorobenzene	UG/L	5 U	5 U
Chloroform	UG/L	5 U	5 U
Methyl ethyl ketone (2-Butanone)	UG/L	10 U	10 U
Tetrachloroethene	UG/L	5 U	5 U
Trichloroethene	UG/L	5 U	5 U
Vinyl Chloride	UG/L	5 U	5 U
TCLP Semivolatile Organic Compounds			
1,4-Dichlorobenzene	UG/L	20 U	20 U
2,4,5-Trichlorophenol	UG/L	100 U	100 U
2,4,6-Trichlorophenol	UG/L	20 U	20 U
2,4-Dinitrotoluene	UG/L	20 U	20 U
2-Methylphenol (o-cresol)	UG/L	20 U	20 U
4-Methylphenol (p-cresol)	UG/L	20 U	20 U
Hexachlorobenzene	UG/L	20 U	20 U
Hexachlorobutadiene	UG/L	20 U	20 U
Hexachloroethane	UG/L	20 U	20 U
Nitrobenzene	UG/L	20 U	20 U
Pentachlorophenol	UG/L	100 U	100 U
Pyridine	UG/L	40 U	40 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:45 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A	GW03-017A
Sample ID		GW03-016	GW03-017
Matrix		Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-165.0	0.0-183.7
Date Sampled		07/31/03	08/05/03
Parameter	**Units**		
TCLP Pesticides			
Endrin	UG/L	0.5 U	0.5 U
gamma-BHC (Lindane)	UG/L	0.25 U	0.25 U
Heptachlor	UG/L	0.25 U	0.25 U
Heptachlor epoxide	UG/L	0.25 U	0.25 U
Methoxychlor	UG/L	2.5 U	2.5 U
Technical Chlordane	UG/L	2.5 U	2.5 U
Toxaphene	UG/L	12 U	12 U
TCLP Herbicides			
2,4,5-TP (Silvex)	UG/L	0.5 U	0.5 U
2,4-D	UG/L	5 U	5 U
Polychlorinated Biphenyls			
Aroclor 1016	UG/KG	18 U	17 U
Aroclor 1221	UG/KG	35 U	33 U
Aroclor 1232	UG/KG	18 U	17 U
Aroclor 1242	UG/KG	18 U	17 U
Aroclor 1248	UG/KG	18 U	17 U
Aroclor 1254	UG/KG	18 U	17 U
Aroclor 1260	UG/KG	18 U	17 U
TCLP Metals			
Arsenic	UG/L	200 U	200 U
Barium	UG/L	55.5	R
Cadmium	UG/L	50 U	50 U
Chromium	UG/L	50 U	50 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:47 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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TABLE 1
VALIDATED DRILL CUTTING SAMPLE RESULTS
JULY - AUGUST 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A	GW03-017A
Sample ID		GW03-016	GW03-017
Matrix		Drill Cuttings	Drill Cuttings
Depth Interval (ft)		0.0-165.0	0.0-183.7
Date Sampled		07/31/03	08/05/03
Parameter	**Units**		
TCLP Metals			
Lead	UG/L	22.2 B	50 U
Mercury	UG/L	10 U	10 U
Selenium	UG/L	150 U	150 U
Silver	UG/L	30 U	30 U
RCRA Characteristics			
Corrosivity	YES/NO	NO	NO
Ignitability	POS/NEG	NEG	NEG
Reactive Cyanide	MG/KG	0.5 U	0.5 U
Reactive Sulfide	MG/KG	20 U	20 U

Flags assigned during chemistry validation are shown.

Made By_AMK 10/2/03_
Checked By_JJL 11/13/03_

Detection Limits shown are PQL

Printed: 4/13/2004 11:06:50 AM
[tblRES].[MATRIX] = 'DC' AND [tblRES].[LOGDATE] > #6/6/2003# AND [tblRES].[SACODE] = 'N'

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ATTACHMENT A
DEFINITIONS OF DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the sample reporting limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the sample reporting limit. However, the reporting limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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APPENDIX F

DRILL CUTTINGS LANDFILL SCALE TICKETS

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MODERN CORPORATION

P.O. BOX 209 MODEL CITY, NEW YORK 14107
LANDFILL SITE - HAROLD @ PLETCHER RD.
LEWISTON, NEW YORK

TICKET : 990907
DATE IN : 11/10/03 10:27:18
DATE OUT: 11/10/03 10:27:19

TRUCK :1439
HAULER :LT LEWISTON TRUCKING
GENERATOR:24667.003
URS CORPORATION NEW YORK
VARIOUS LOCATIONS
BILL TO : 6161.000
LT LEWISTON TRUCKING

HAULER TICKET:TK02149697-000

COMMODITY:0100-0000 INDUSTRIAL WASTE

GROSS WEIGHT: 78,540.00
TARE WEIGHT: 29,160.00
NET WEIGHT: 49,380.00
TONS: 24.69

WEIGHMASTER: _____

To the best of my knowledge, the waste stream(s) indicated on this ticket contain(s) no hazardous or unacceptable waste and has been packaged and transported in accordance with all applicable state and federal regulations. Any person accepting this ticket assumes all risk of accident and expressly agrees that Modern Landfill Inc. shall not be liable under any circumstances for any injury to person, loss or damage and also agrees to indemnify and hold harmless Modern Landfill Inc. and its employees.

Additionally, I hereby acknowledge that I have read and understand conditions or statements indicated on reverse.

Signature: _____

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MODERN CORPORATION

P.O. BOX 209 MODEL CITY, NEW YORK 14107
LANDFILL SITE - HAROLD @ PLETCHER RD.
LEWISTON, NEW YORK

TICKET : 991103
DATE IN : 11/10/03 15:29:52
DATE OUT: 11/10/03 15:29:52

TRUCK :1439
HAULER :LT LEWISTON TRUCKING
GENERATOR:24667.003
URS CORPORATION NEW YORK
VARIOUS LOCATIONS

BILL TO : 6161.000
LT LEWISTON TRUCKING

HAULER TICKET:TK02150721-000

COMMODITY:0100-0000 INDUSTRIAL WASTE
GROSS WEIGHT: 76,860.00
TARE WEIGHT: 29,160.00
NET WEIGHT: 47,700.00
TONS: 23.85

WEIGHMASTER: _____

To the best of my knowledge, the waste stream(s) indicated on this ticket contain(s) no hazardous or unacceptable waste and has been packaged and transported in accordance with all applicable state and federal regulations. Any person accepting this ticket assumes all risk of accident and expressly agrees that Modern Landfill Inc. shall not be liable under any circumstances for any injury to person, loss or damage and also agrees to indemnify and hold harmless Modern Landfill Inc. and its employees.

Additionally, I hereby acknowledge that I have read and understand conditions or statements indicated on reverse.

Signature: _____

Copyright © 2005 New York Power Authority

MODERN CORPORATION

P.O. BOX 209 MODEL CITY, NEW YORK 14107
LANDFILL SITE - HAROLD @ PLETCHER RD.
LEWISTON, NEW YORK

TICKET : 991383
DATE IN : 11/11/03 10:59:35
DATE OUT: 11/11/03 10:59:36

TRUCK :PF29-MDS
HAULER :MDS / FOURNIER TRUCKING
GENERATOR:24667.003
URS CORPORATION NEW YORK
VARIOUS LOCATIONS

BILL TO : 6163.000
MDS MODERN DISPOSAL

HAULER TICKET:TK02151086-000

COMMODITY:0100-0000 INDUSTRIAL WASTE

GROSS WEIGHT: 66,520.00
TARE WEIGHT: 27,120.00
NET WEIGHT: 39,400.00
TONS: 19.70

WEIGHMASTER: _____

To the best of my knowledge, the waste stream(s) indicated on this ticket contain(s) no hazardous or unacceptable waste and has been packaged and transported in accordance with all applicable state and federal regulations. Any person accepting this ticket assumes all risk of accident and expressly agrees that Modern Landfill Inc. shall not be liable under any circumstances for any injury to person, loss or damage and also agrees to indemnify and hold harmless Modern Landfill Inc. and its employees.

Additionally, I hereby acknowledge that I have read and understand conditions or statements indicated on reverse.

Signature: _____

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APPENDIX G

WASTEWATER FACILITY DISPOSAL PERMITS

Copyright © 2005 New York Power Authority

Town of Lewiston
Water Pollution Control Center

Waste Water Discharge Permit

Permit Number ____10-03_____

Designated as a significant Industrial User Yes____ No__XX____

In accordance with the provisions of the Clean Water Act as Amended, all terms and conditions set forth in this permit, The Town of Lewiston Sewer Use Law and any applicable Federal, State, or local laws or regulations, authorization is hereby granted to:

New York Power Authority / Niagara Power Project

for the discharge of : **Ground Water from above Ground Storage** for end disposal at the Town of Lewiston Water Pollution Control Center.

This permit is granted in accordance with , and in conformity with specifications and other required data submitted in support of the above named application, all of which are filed with and considered part of this permit. This permit is also granted in accordance with discharge limitations and requirements,
monitoring, and reporting requirements, and all other conditions set forth in Part 1

Effective date September 4, 2003

Authorization Signature / date Timothy R Lockhart
Timothy R. Lockhart
Admin. / Chief Op.

PART 1
Permit number ____10-03_____

Permitee__New York Power Authority (Niagara)____date of permit 09/04/03

revised

effective September 4, 2004 Admin/Chief Op. Timothy R Sobbott

Part 1 Specific Conditions
Permit limited to **Ground Water from Above Ground Storage**
(type of waste)

DISCHARGE OF OILS, GREASE OR FLATABLE MATERIAL IS PROHIBITED
DISCHARGE OF ANY INDUSTRIAL WASTE STREAM IS PROHIBITED

Discharge Time 7am - 4 pm Monday -Friday After hours on approval

Discharge Rate 125,000 gallons per day for batch discharge

Discharge Point Trucked Waste to Headworks of treatment plant.

Note: Hauler to have valid NYSDEC permits and insurance.
Modern Disposal's information is on record already at the WPCC and is an accepted discharger of trucked waste at the Lewiston Water Pollution Control Center

If another hauler is used, NYSDEC permit and insurance information will be required for approval.

Sampling requirements
None at this time. / analytical data for batch discharge on record

The Permitee will also copy the Water Pollution Control Center on any lab data or waste analysis that the Permitee may perform as a normal course of business.

The Town of Lewiston reserves the right to temporarily modify, suspend or revoke this permit as operating conditions may warrant.

City of Niagara Falls, New York

P.O. Box 69, Niagara Falls, NY 14302-0069

August 5, 2003

Ms. Suzette Koikowski
Environmental Supervisor
New York Power Authority
5777 Lewiston Road
Lewiston, New York 14092-2121

Dear Ms. Koikowski:

In response to your request dated July 30, 2003, I offer the following approval. The New York Power Authority has generated up to 150,000 gallons of well development water as part of its efforts to become re-licensed. The pollutant analysis has detected very low pollutant loadings. As such the City has notified the NYSDEC it will accept this wastewater.

This discharge is hereby approved effective immediately subject to the following conditions:

a) The discharge will be limited to 42,000 gallons per day.
b) Each batch will be tested for the initial pollutant list, and submitted to me prior to discharge.
c) All pollutant limitations and standards contained in the Sewer Use Ordinance, Chapter 250, are in effect.
d) The discharge will enter the City POTW at the manhole identified as the South Side Interceptor East Junction Structure. Provisions will be made to ensure the open manhole is secured for public safety.
e) A permit fee in the amount of $100.00, payable to "The City Controller" should be remitted to me as soon as possible. The wastewater disposal will be charged at a rate of 4¢/gallon.
f) The discharge will be continuously monitored by an acceptable flow meter. Daily flow totals will be recorded and submitted to me in a monthly report, due 7 days after the conclusion of the month.

If you have any questions, I may be contacted at 716-286-4978.

Sincerely,

DEPARTMENT OF WASTEWATER FACILITIES

Albert C. Zaepfel

Albert C. Zaepfel
Industrial Monitoring Coordinator

ACZ: mc

Cc:
F:\ADMIN\WINWORD\ZAEPFEL\MEMO 2003\KOSIKOWSKI 8-5-03

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City of Niagara Falls, New York

P.O. Box 69, Niagara Falls, NY 14302-0069

August 18, 2003

Ms. Suzette Koikowski
Environmental Supervisor
New York Power Authority
5777 Lewiston Road
Lewiston, New York 14092-2121

Dear Ms. Koikowski:

In response to your requests dated August 11 & 13, 2003, I offer the following approval. The New York Power Authority has generated up to 150,000 gallons of well development water as part of its efforts to become re-licensed. The pollutant analysis has detected very low pollutant loadings. As such the City has notified the NYSDEC it will accept this wastewater. The second and third requests solicit permission to discharge two (2) batches of 42,000 gallons each. The analysis you have submitted indicates the pollutant quality and quantity are similar to the first batch. Consequently you are herby approved to discharge these two (2) additional batches subject to the following conditions:

a) The discharges will be limited to 42,000 gallons per day.
b) All pollutant limitations and standards contained in the Sewer Use Ordinance, Chapter 250, are in effect.
c) The discharge will enter the City POTW at the manhole identified as the South Side Interceptor East Junction Structure. Provisions will be made to ensure the open manhole is secured for public safety.
d) The wastewater disposal will be charged at a rate of 4¢/gallon.
e) The discharge will be continuously monitored by an acceptable flow meter. Daily flow totals will be recorded and submitted to me in a monthly report, due 7 days after the conclusion of the month.

If you have any questions, I may be contacted at 716-286-4978.

Sincerely,

DEPARTMENT OF WASTEWATER FACILITIES

Albert C. Zaepfel
Industrial Monitoring Coordinator

ACZ: mc

Cc: Colin Wasteneys – URS Corporation
Semi-Annual Report – NYSDEC/USEPA

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Non-Internet Public (NIP) information has been removed from the following page(s).

This material is contained in:
Volume 2
Section: Determine to What Extent Project Operations Affect the Transport of Groundwater and Contaminants

APPENDIX H

FALLS STREET TUNNEL FLOW MEASURING METHODS AND SUPPORTING CALCULATIONS

[NIP – General Location Maps]

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APPENDIX I

LOW FLOW GROUNDWATER PURGING/SAMPLING LOGS

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-001A-P1

Date: 10/2/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 6.17' Depth to Well Bottom: 28.70' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 13.9 Estimated Purge Volume (liters): 14

Sample ID: GW03-001A-P1 Sample Time: 1630 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (µmhos)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1540	7.61	10.70	5.04	7.66	18	-154	710	6.30
1545	7.07	10.65	4.04	1.67	5	-210	540	6.41
1550	7.39	10.82	3.52	0.76	1	-254	520	6.50
1555	7.48	10.88	3.27	0.55	1	-271	510	6.61
1600	7.41	11.04	3.17	0.49	1	-280	395	6.61
1605	7.42	10.74	3.04	0.44	0	-291	455	6.61
1615	7.29	10.73	2.97	0.48	0	-295	460	6.69
1630	7.27	10.51	2.86	0.42	0	-300	480	6.71
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-001A-P2

Date: 10/2/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 8.55' Depth to Well Bottom: 52.35' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 27.0 Estimated Purge Volume (liters): 27.0

Sample ID: GW03-001A-P2 Sample Time: 10/7/03 & 10/8/03 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (µmhos)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1715	6.77	10.21	58.1	3.55	13	-65	470	9.11
1720	6.71	10.31	56.2	0.70	3	-78	300	11.74
1730	6.70	10.23	52.5	0.61	1	-87	280	15.20
1735	6.70	10.29	52.7	0.63	1	-87	240	17.00
1740	6.70	10.22	53.1	0.63	2	-85	250	18.57
1745	6.69	10.19	53.7	0.67	1	-82	200	20.25
1750	6.69	10.15	54.0	0.66	1	-81	170	21.81
1800	6.69	10.11	50.9	0.60	3	-76	160	24.00
1810	6.70	10.07	50.2	0.62	2	-66	140	25.90
1815	6.70	10.05	49.8	0.68	3	-63	125	26.71
1820	6.70	9.97	50.1	0.74	3	-59	125	27.65
1825	6.70	9.94	48.4	0.73	3	-47	105	28.30
1830	6.70	9.91	47.0	0.80	3	-35	105	28.81
1835	Peristaltic pump quits							29.30
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-001A-P2

Date: 10/6/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Submersible Tempest Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 22.36' Depth to Well Bottom: 52.34' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 18.5 Estimated Purge Volume (liters): 28

Sample ID: GW03-001A-P2 Sample Time: 10/7/03 & 10/8/03 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (µmhos)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0930	6.59	9.70	36.8	0.00	100	116	180	23.75
0935	6.65	9.66	37.0	0.00	54.7	97	220	25.15
0940	6.65	9.85	36.8	0.00	38.7	97	50	25.45
0945	6.65	10.10	36.9	0.00	21.5	92	400	26.68
0955	6.66	9.89	36.5	0.00	16.05	73	110	29.10
1005	6.66	10.10	36.5	0.00	11.43	77	190	30.72
1015	6.68	10.47	36.1	0.00	11.02	84	320	33.29
1025	6.70	10.20	35.9	0.00	9.00	86	145	34.82
1035	6.71	10.50	35.5	0.00	8.42	87	240	36.57
1045	6.71	10.70	35.3	0.00	8.59	87	270	37.85
1055	6.73	10.00	34.7	0.00	6.14	86	190	40.59
1105	6.77	10.80	32.5	0.00	4.82	79	210	44.14
1115	6.77	10.90	31.8	0.00	6.50	77	320	47.20
1125	6.79	11.30	29.8	0.00	8.82	79	270	48.17
1135	6.79	11.30	29.0	0.00	8.90	79	105	Below Pump
1140	Dry Well							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-001A-P2

Date: 10/7/2003 10/8/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Submersible Tempest Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: N/A Depth to Well Bottom: 52.34' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): N/A Estimated Purge Volume (liters): N/A

Sample ID: GW03-001A-P2 Sample Time: 0910 (10/7/03) 0845 (10/8/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (μmhos)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	6.66	10.30	23.1	1.21	10.18	129	500	Below Pump
0900	6.94	10.30	25.3	2.09	13.45	105	310	Below Pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-002A-P1

Date: 10/2/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 9.30' Depth to Well Bottom: 30.10' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.8 Estimated Purge Volume (liters): 17

Sample ID: GW03-002A-P1 Sample Time: 1650 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (µmhos)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1555	7.18	12.48	1.17	0.00	4.45	-219	305	10.1
1600	6.98	11.95	1.19	0.00	3.82	-231	235	10.3
1605	7.00	11.69	1.19	0.00	4.15	-243	240	10.3
1610	7.10	11.42	1.23	0.00	6.41	-255	300	10.5
1615	7.17	11.38	1.25	0.00	6.41	-263	290	10.6
1620	7.18	11.30	1.25	0.00	3.87	-266	280	10.6
1630	7.19	11.17	1.21	0.00	3.56	-268	310	10.7
1640	7.19	11.18	1.27	0.00	3.11	-270	305	10.9
1650	7.19	11.15	1.28	0.00	3.19	-270	300	10.9
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water has slight odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-002A-P2

Date: 10/6/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Submersible Tempest Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 43.16' Depth to Well Bottom: 48.45' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 3.3 Estimated Purge Volume (liters): 18

Sample ID: Not Sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (µmhos)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1330	6.99	11.30	13.90	0.66	238.0	-40	175	Below Pump
1335	6.95	11.00	13.10	0.00	95.0	-82	360	44.10
1340	7.11	11.60	13.00	0.00	27.1	-96	310	44.45
1345	7.10	12.00	12.70	0.00	9.32	-94	455	45.19
1350	7.06	11.70	12.40	0.00	60.8	-94	390	45.49
1355	7.07	11.60	12.00	0.00	22.3	-89	480	Below Pump
1400	7.04	11.49	11.90	0.00	32.7	-82	370	Below Pump
1405	7.06	11.80	11.90	0.00	26.3	-71	0	Below Pump
1410	6.99	12.44	12.00	0.00	41.2	-37	90	Below Pump
1415	6.92	12.65	12.80	0.00	62.0	-22	120	Below Pump
1420	6.95	12.75	13.00	0.00	45.3	-33	0	Below Pump
1425	Dry Well							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Purged to dryness and did not recharge.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-003A-P1

Date: 9/26/2003 Sampling Personnel: J. Grady, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 14.15' Depth to Well Bottom: 30.10' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.8 Estimated Purge Volume (liters): 11

Sample ID: GW03-003A-P1 Sample Time: 0950 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0900	6.79	11.70	1.87	2.62	175.0	70	355	14.25
0905	7.03	11.77	1.84	0.58	107.0	40	220	14.25
0910	7.06	11.84	1.80	0.46	47.8	12	230	14.20
0915	7.05	11.73	1.83	0.41	46.8	-10	240	14.30
0920	7.07	11.75	1.83	0.38	99.8	-23	240	14.32
0930	7.10	11.86	1.82	0.30	20.9	-39	245	14.35
0940	7.10	11.66	1.82	0.34	10.0	-47	270	14.36
0950	7.13	11.75	1.82	0.33	9.4	-53	260	14.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-003A-P2

Date: 9/26/2003 Sampling Personnel: M. Nemeth, D. Cofield Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 14.25' Depth to Well Bottom: 50.33' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 22.26 Estimated Purge Volume (liters): 23

Sample ID: GW03-003A-P2 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0910	6.52	12.03	2.73	0.63	205	103	370	14.99
0915	6.81	11.85	2.68	0.00	365	21	320	15.13
0920	7.02	11.70	2.65	0.00	400	-43	310	15.15
0925	7.01	11.67	2.73	0.00	616	-184	300	15.17
0930	7.02	11.73	2.70	0.00	700	-236	300	15.17
0935	7.02	11.78	2.66	0.00	785	-245	300	15.19
0945	7.04	11.70	2.67	0.00	666	-249	320	15.22
0950	7.03	11.78	2.66	0.00	0.68	-255	320	15.23
0955	7.04	11.80	2.64	0.00	0.65	-257	350	15.25
1005	7.02	11.81	2.61	0.00	0.60	-256	300	15.20
1015	7.03	12.02	2.62	0.00	0.29	-256	320	15.23
1020	7.03	12.23	2.62	0.00	0.28	-256	320	15.28
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-004A-P1

Date: 9/26/2003 Sampling Personnel: M. Holquist, J. Grady, D. Cofield Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 9.00' Depth to Well Bottom: 17.40' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.4 Estimated Purge Volume (liters): 8.5

Sample ID: GW03-004A-P1 Sample Time: 0950 (9/29/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1200	7.12	15.33	2.12	0.00	99.6	-16	200	10.30
1205	7.10	15.72	2.05	1.10	83.5	39	130	11.75
1217	7.23	15.68	2.06	2.55	101.0	-4	150	13.75
1225	7.29	16.10	2.03	2.95	95.8	43	120	14.10
1230	7.25	15.87	2.04	3.19	107.0	51	120	14.50
1235	7.17	15.52	2.10	1.47	115.0	59	160	14.80
1240	7.14	15.54	2.13	0.00	124.0	40	150	15.00
1250	7.10	15.10	2.22	0.00	177.0	-35	160	15.45
1255	Dry Well							
Returned on 9/29/03								
0937	6.70	13.98	2.25	5.55	8.94	-120	130	12.10
0950	6.97	14.04	2.24	0.00	7.17	-105	130	12.35
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-004A-P2

Date: 9/26/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 11.56' Depth to Well Bottom: 31.18' Well Diameter: 2-Inch Screen Length: 8.7'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.1 Estimated Purge Volume (liters): 10

Sample ID: GW03-004A-P2 Sample Time: 1110 (9/29/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1205	7.17	12.88	2.04	0.70	295	-187	190	13.06
1210	7.20	12.89	2.19	0.51	104	-228	160	14.56
1215	7.29	13.19	2.04	0.46	68	-239	135	15.96
1225	7.27	13.44	2.07	0.45	49.1	-229	120	17.16
1230	7.28	13.49	2.02	0.47	36.9	-221	110	18.17
1240	7.28	13.61	2.08	0.44	3.31	-216	110	19.25
1250	7.28	13.38	2.01	0.46	3.02	-210	105	20.81
1300	7.29	13.52	2.02	0.47	1.9	-200	110	21.83
1310	7.43	13.51	1.96	0.54	9.5	-184	100	22.50
1318	7.30	13.53	2.00	0.62	10.8	-168	109	22.80
1325	7.44	14.04	2.07	0.75	34.8	-156	120	23.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-004A-P2

Date: 9/29/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 16.90' Depth to Well Bottom: 31.18' Well Diameter: 2-Inch Screen Length: 8.7'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.8 Estimated Purge Volume (liters): 11.5

Sample ID: GW03-004A-P2 Sample Time: 1110 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0930	7.00	11.51	2.30	3.04	170	-75	280	16.72
0940	7.23	11.65	2.27	0.78	68.5	-164	130	18.86
0950	7.22	11.69	2.19	0.61	31.1	-206	145	20.53
1000	7.22	11.75	2.14	0.61	18.1	-208	130	22.00
1010	7.24	11.80	2.11	0.81	18.9	-180	135	22.68
1020	7.24	12.12	2.11	1.01	2	-155	125	22.75
1030	7.26	11.80	2.09	1.37	2	-131	130	23.02
1040	7.25	12.01	2.07	1.98	1	-96	125	23.41
1050	7.22	12.38	2.07	1.56	1	-77	120	23.96
1100	7.21	12.56	2.02	1.14	1	-82	120	24.28
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-005A-P1

Date: 10/6/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 6.01' Depth to Well Bottom: 26.11' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.4 Estimated Purge Volume (liters): 24

Sample ID: GW03-005A-P1 Sample Time: 1715 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (μmhos)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1635	6.93	14.98	6.55	0.14	15.14	-299	580	6.09
1645	6.88	13.2	6.83	0.00	0.00	-315	620	6.10
1650	6.89	13.2	6.80	0.00	0.08	-318	600	6.10
1655	6.90	13.1	6.76	0.00	0.00	-322	600	6.15
1700	6.90	13.1	6.70	0.00	0.00	-324	600	6.14
1705	6.90	13.1	6.67	0.00	0.00	-324	640	6.11
1710	6.90	13.1	6.63	0.00	0.00	-325	610	6.18
1715	6.90	13.0	6.61	0.00	0.00	-326	620	6.15
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Readings at well head with MultiRae Plus: CO - 11; LEL - 4; H2S - 0; O2 - 20.9

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-005A-P2

Date: 10/7/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Submersible Tempest Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 39.70' Depth to Well Bottom: 46.50' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 2.34 Estimated Purge Volume (liters): 7

Sample ID: GW03-005A-P2 Sample Time: 0930 (10/8/03) QA/QC: None

Sample Parameters: TCL VOCs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (μmhos)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1525	7.87	12.27	13.8	0.00	474	-316	280	Below Pump
1530	7.90	12.3	13.9	0.00	396	-339	340	Below Pump
1535	7.92	11.8	13.9	0.00	347	-346	280	Below Pump
1540	7.94	12.2	13.9	0.00	346	-350	250	Below Pump
1545	7.94	12.4	14.0	0.00	227	-352	150	Below Pump
1550	Dry Well							
Return on 10/8/03								
0930	-	-	-	-	-	-	-	Below Pump
Return on 10/9/03								
0915	-	-	-	-	-	-	-	45.8
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Readings at well head with MultiRae Plus: CO - 11; LEL - 4; H2S - 0; O2 - 20.9

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006B-P1
(Actual ID GW03-006A-P1)

Date: 10/1/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 15.4' Depth to Well Bottom: 25.7' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 6.3 Estimated Purge Volume (liters): 11

Sample ID: GW003-006B-P1 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0915	7.02	11.75	0.948	0.28	17.8	-202	315	15.4
0920	7.16	11.70	1.02	0.10	10.3	-244	315	15.4
0925	7.16	11.66	1.20	0.00	4.19	-247	310	15.4
0930	7.15	11.66	1.24	0.00	2.04	-243	320	15.4
0940	7.13	11.58	1.28	0.00	1.05	-238	420	15.4
0950	7.12	11.58	1.28	0.00	1.16	-236	440	15.4
1000	7.11	11.58	1.25	0.00	0.65	-237	450	15.4
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water has slight odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006A-P2
(Actual ID GW03-006B-P2)

Date: 10/1/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 20.62' Depth to Well Bottom: 53.30' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 20.2 Estimated Purge Volume (liters): 25

Sample ID: GW03-006A-P2 Sample Time: 1100 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0955	7.47	11.74	2.19	6.75	28	-137	410	20.62
1000	7.24	10.51	4.09	0.91	31	-234	410	20.65
1010	7.12	10.36	5.47	0.57	9	-314	410	20.65
1020	7.12	10.34	5.38	0.42	3	-328	410	20.65
1030	7.12	10.42	5.55	0.40	3	-336	410	20.66
1040	7.13	10.23	5.64	0.37	2	-339	410	20.67
1050	7.12	10.34	5.51	0.41	1	-342	415	20.67
1100	7.12	10.36	5.44	0.34	1	-347	405	20.68
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006A-P3
(Actual ID GW03-006B-P3)

Date: 10/9/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 73.41' Depth to Well Bottom: 75.91' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.54 Estimated Purge Volume (liters): 4

Sample ID: Not Sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1405	6.97	18.3	17.0	2.29	618	-18	230	Below Pump
1410	6.94	15.1	16.8	1.21	995	-23	280	Below Pump
1415	6.92	14.4	16.7	0.83	936	-24	315	Below Pump
1420	-	-	-	-	-	-	-	Below Pump
1500	-	-	-	-	-	-	-	Below Pump
returned on 10/10/03								
0845	-	-	-	-	-	-	-	74.85
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Pump ~1 foot above bottom of well
Purged to dryness and did not recharge

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006A-P4
(Actual ID GW03-006B-P4)

Date: 10/1/2003 Sampling Personnel: M. Nemeth, J. Grady, T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 15.25' Depth to Well Bottom: 17.45' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.36 Estimated Purge Volume (liters): 4

Sample ID: GW03-006A-P4 Sample Time: 0820 (10/3/03) 1120 (10/8/03) QA/QC: N/A

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0910	7.20	13.41	0.888	6.24	4	112	500	15.55
0915	7.38	13.35	1.06	5.14	3	109	260	15.85
0920	7.37	13.26	0.999	3.66	3	123	70	16.15
Sample limited volume 10/3/03								
Return 10/7/03								
1630	7.51	14.6	0.856	8.47	20.0	-45	440	15.57
1635	7.34	13.9	0.786	3.61	7.76	5	600	16.13
1640	Dry Well							
Sample limited volume 10/8/03								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Full bottle set attained for this well

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006B-P5
(Actual ID GW03-006A-P5)

Date: 10/1/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 21.30' Depth to Well Bottom: 34.50' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.1 Estimated Purge Volume (liters): 11

Sample ID: GW03-006B-P5 Sample Time: 1200 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1124	6.89	11.04	5.68	0.00	6.9	-331	300	21.4
1130	6.89	10.91	5.69	0.00	2.78	-327	300	21.4
1135	6.90	11.00	5.68	0.00	2.22	-322	305	21.5
1140	6.90	10.92	5.50	0.00	2.13	-321	315	21.5
1150	6.90	10.91	5.69	0.00	0.30	-321	340	21.5
1155	6.91	11.00	5.69	0.00	0.48	-321	340	21.6
1200	6.91	10.94	5.68	0.00	0.19	-322	330	21.6
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water has sulfur odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P1

Date: 10/1/2003 Sampling Personnel: J. Grady, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 12.30' Depth to Well Bottom: 32.80' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.6 Estimated Purge Volume (liters): 18.1

Sample ID: GW03-007A-P1 Sample Time: 1610 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1525	7.60	12.33	0.91	9.42	56	-21	445	12.36
1535	7.23	10.77	0.95	0.68	23	-16	400	12.40
1540	7.08	10.69	0.93	0.53	11	-14	425	12.40
1545	7.17	10.64	0.91	0.42	10	-31	400	12.40
1550	7.15	10.62	0.90	0.41	8	-35	410	12.40
1555	7.19	10.62	1.06	0.39	7	-44	380	12.40
1605	7.26	10.59	1.05	0.40	5	-47	380	12.40
1610	7.26	10.56	1.04	0.39	3	-43	380	12.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P2

Date: 10/2/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 24.75' Depth to Well Bottom: 60.42' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 22.0 Estimated Purge Volume (liters): 22.95

Sample ID: GW03-007A-P2 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0900	6.64	10.25	2.98	4.87	136	-152	270	24.80
0905	6.91	10.10	3.04	2.91	57	-202	280	24.80
0910	7.01	9.99	3.07	1.90	28	-255	285	24.76
0920	7.06	10.00	3.06	0.75	9	-288	270	24.80
0930	7.06	10.07	3.06	0.60	8	-285	250	24.80
0940	7.06	9.98	3.09	0.84	5	-303	250	24.80
0950	7.07	9.95	3.10	0.68	4	-306	250	24.80
1000	7.07	10.06	3.09	0.60	3	-309	250	24.80
1010	7.08	10.04	3.08	0.84	3	-311	250	24.80
1015	7.10	10.07	3.07	0.88	2	-311	240	24.80
1020	7.07	10.10	3.03	0.80	2	-311	240	24.80
1025	7.09	10.08	3.02	0.78	1	-311	240	24.80
1030	7.06	9.99	3.04	1.14	2	-313	240	24.80
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P3

Date: 10/2/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: Peristaltic Pump/ Wattera -Tsunami Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 22.83' Depth to Well Bottom: 83.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 37.37 Estimated Purge Volume (liters): 37

Sample ID: GW03-007A-P3 Sample Time: 0955 (10/3/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1140	6.72	10.48	>99.9	1.80	5	-296	205	23.70
1145	6.56	10.43	>99.9	0.66	3	-309	160	24.30
Install Submersible Pump								
1225	6.72	10.19	99.9	0.99	24	-309	280	24.7
1230	6.70	10.54	99.9	1.17	24	-319	160	25.2
1235	6.74	10.74	99.9	0.69	14	-332	360	27.9
1240	6.72	10.62	99.9	0.69	10	-343	410	29.0
1245	6.74	10.45	99.9	0.61	9	-345	80	30.5
1255	6.61	9.85	99.9	0.24	8	-350	260	35.8
1310	6.56	10.28	99.9	0.17	8	-355	335	40.5
1345	6.77	12.88	99.9	0.10	12	-370	580	N/A
1410	Dry Well							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Hydrogen Sulfide levels range between 12-111 at well head.
Vapors visible at well head

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P3

Date: 10/7/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Wattera - Tsunami Submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 50.15' Depth to Well Bottom: 83.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 20.5 Estimated Purge Volume (liters): 21

Sample ID: GW03-007A-P3 Sample Time: 1230 (10/8/03) QA/QC: None

Sample Parameters: TCL PCBs; TCDD

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1705	6.75	10.87	99.9	0.00	34.9	-332	2000	-
1710	6.80	11.1	99.9	0.00	12.6	-348	1000	-
1720	6.81	11.7	99.9	0.00	26.4	-352	1400	-
1725	-	-	-	-	-	-	-	-
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Just needed limited sample volume to attain full bottle set from 10/3 sample

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007B-P4

Date: 10/1/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 12.10' Depth to Well Bottom: 21.80' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 6.0 Estimated Purge Volume (liters): 13

Sample ID: GW03-007B-P4 Sample Time: 1600 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1520	7.06	12.92	1.69	0.00	6.22	-192	330	12.10
1525	7.02	12.77	1.66	0.00	1.26	-212	370	12.15
1530	7.05	12.76	1.66	0.00	1.31	-226	390	12.15
1535	7.07	12.75	1.61	0.00	1.11	-233	390	12.15
1540	7.06	12.76	1.61	0.00	0.62	-235	390	12.15
1555	7.06	12.78	1.64	0.00	0.28	-240	400	12.15
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water has a strong odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007B-P5

Date: 10/2/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 22.70' Depth to Well Bottom: 42.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.15 Estimated Purge Volume (liters): 7

Sample ID: GW03-007B-P5 Sample Time: 1420 (10/14/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0920	6.93	10.77	2.16	0.00	11.8	-108	300	22.6
0930	7.01	10.80	1.92	0.00	14.2	-121	240	26.7
0940	7.02	11.29	2.19	0.00	4.6	-133	80	27.6
0950	7.01	11.31	1.80	0.00	2.13	-92	65	28.5
1000	7.06	11.24	1.73	0.17	1.70	-80	105	29.6
1010	7.09	11.93	1.57	0.58	1.82	-6	70	30.8
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remark: No sample collected at this time due to lack of recovery.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007B-P5

Date: 10/9/2003 10/13/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Peristaltic/Tempest submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 23.78' Depth to Well Bottom: 42.31' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 11.43 Estimated Purge Volume (liters): 20

Sample ID: GW03-007B-P5 Sample Time: 1420 (10/14/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1005	7.00	12.5	1.88	1.19	11.68	-97	170	25.30
1010	7.09	13.3	1.76	0.82	4.22	-107	115	26.24
1015	7.13	13.78	1.73	1.05	2.86	-118	95	26.90
1020	7.14	13.67	1.72	0.89	2.56	-121	105	27.68
1025	7.14	13.76	1.69	0.90	2.23	-120	110	28.41
1030	7.14	13.78	1.67	1.06	2.22	-119	110	28.85
1035	7.15	13.92	1.72	1.35	2.64	-115	110	29.85
1040	7.15	14.11	2.00	1.59	6.09	-113	100	30.42
1045	7.16	14.64	1.73	1.96	3.37	-110	85	30.88
1050	Pump Quits							31.12
Install submersible pump on 10/13/03								
0850	6.22	11.40	1.80	8.08	46.6	61	540	26.62
0855	6.90	11.40	2.23	2.21	7.02	-161	480	29.80
0900	6.98	11.83	2.18	1.57	4.18	-179	160	31.91
0910	7.04	12.25	2.10	1.67	1.23	-179	530	35.83
0920	7.07	12.46	2.02	1.83	1.70	-168	640	37.95
0930	7.03	12.00	1.87	1.48	2.73	-160	435	Below Pump
0935	7.03	11.60	1.97	1.22	N/A	-156	N/A	Below Pump
	Dry Well							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P1

Date: 9/30/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 12.90' Depth to Well Bottom: 31.60' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 11.5 Estimated Purge Volume (liters): 18

Sample ID: GW03-008A-P1 Sample Time: 1625 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1550	7.24	12.83	0.895	0.00	2.04	72	490	12.8
1555	7.17	12.24	0.889	0.00	9.18	83	510	12.9
1600	7.24	11.76	0.999	0.00	9.0	-11	510	12.9
1605	7.26	11.61	1.20	0.00	12.72	-55	540	12.9
1610	7.24	11.62	1.16	0.00	10.0	-70	530	12.9
1615	7.19	11.63	1.10	0.00	7.63	-75	530	12.9
1620	7.20	11.59	1.11	0.00	3.96	-75	530	12.9
1625	7.18	11.59	1.10	0.00	5.02	-82	530	12.9
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P2

Date: 10/8/2003 Sampling Personnel: T. Urban, M. Holquist, J. Grady Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 26.62' Depth to Well Bottom: 82.58' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 34.5 Estimated Purge Volume (liters): 18

Sample ID: GW03-008A-P2 Sample Time: 1740 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1535	6.97	15.10	4.59	1.80	164	-169	145	26.78
1540	6.93	14.30	5.06	1.11	165	-165	150	26.80
1548	7.00	13.79	5.86	0.70	60	-162	145	26.80
1550	7.02	13.69	5.99	0.62	33	-162	155	26.80
1600	7.04	13.63	5.63	0.53	29	-192	150	26.80
1605	7.06	13.58	5.80	0.55	11	-209	145	26.80
1610	7.06	13.64	5.66	0.54	10	-224	140	26.82
1620	7.08	13.54	5.55	0.52	6	-234	150	26.85
1630	7.08	13.44	5.50	0.51	5	-240	145	26.85
1640	7.08	13.43	5.47	0.49	4	-245	145	26.86
1650	7.08	13.37	5.43	0.49	4	-250	145	26.86
1700	7.07	13.36	5.44	0.49	2	-253	145	26.86
1710	7.07	13.26	5.43	0.48	2	-257	145	26.86
1720	7.06	13.26	5.49	0.48	1	-261	145	26.86
1730	7.06	13.16	5.51	0.48	1	-264	145	26.86
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Gas bubbles evident in water

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P3

Date: 10/8/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 9.85' Depth to Well Bottom: 100.82' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 56.1 Estimated Purge Volume (liters): 34

Sample ID: GW03-008A-P3 Sample Time: 1750 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1605	6.78	12.8	39.0	2.48	560	-115	380	9.98
1615	6.82	12.5	41.6	0.54	68	-117	380	9.93
1625	6.84	12.4	41.3	0.41	28	-132	380	10.01
1635	6.89	12.4	46.8	0.39	17.2	-148	360	10.02
1645	6.96	12.6	47.1	0.38	13.55	-166	325	10.00
1655	6.96	12.6	49.2	0.40	8.83	-179	320	10.02
1705	6.97	12.5	50.0	0.40	9.06	-195	320	10.02
1710	6.96	12.4	50.1	0.39	8.30	-204	330	10.01
1715	6.95	12.3	50.8	0.40	7.68	-216	340	10.02
1725	6.93	12.3	52.5	0.40	8.64	-235	340	10.03
1735	6.92	12.3	50.1	0.38	8.66	-250	340	10.04
1740	6.91	12.2	50.6	0.38	8.71	-255	340	10.05
1745	6.91	12.2	50.9	0.36	8.69	-257	340	10.05
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P4

Date: 9/29/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 13.16' Depth to Well Bottom: 24.69' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 7.15 Estimated Purge Volume (liters): 8

Sample ID: GW03-008B-P4 Sample Time: 1700 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1620	7.46	11.84	0.99	4.07	76	-143	280	13.26
1625	7.21	11.87	0.95	1.11	47	-176	270	13.26
1630	7.18	11.79	0.93	0.66	11	-196	270	13.26
1640	7.23	11.77	0.91	0.84	4	-210	275	13.26
1645	7.24	11.76	0.89	0.71	2	-219	285	13.26
1650	7.25	11.76	0.99	0.60	2	-223	290	13.26
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P5

Date: 9/30/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 12.90' Depth to Well Bottom: 40.80' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 17.45 Estimated Purge Volume (liters): 29.5

Sample ID: GW03-008B-P5 Sample Time: 1500 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1400	7.13	11.30	1.80	0.00	197	-79	450	12.93
1410	7.06	11.18	1.45	0.00	18.36	-78	450	12.93
1420	7.16	11.01	1.18	0.00	8.80	-96	500	12.93
1430	7.18	11.02	1.11	0.00	4.99	-109	520	12.93
1440	7.19	10.96	1.06	0.00	5.76	-108	510	12.93
1450	7.18	10.95	1.05	0.00	6.50	-108	510	12.93
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P6

Date: 10/8/2003 Sampling Personnel: T.Urban, M. Holquist, J. Grady Company: URS Corporation

Purging/ Sampling Device: Mini Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 58.67' Depth to Well Bottom: 62.83' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 2.6 Estimated Purge Volume (liters): 3

Sample ID: GW03-008B-P6 Sample Time: 1115 (10/9/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1505	6.88	12.11	2.91	2.61	340	-117	590	Below Pump
1510	7.02	11.96	2.83	1.63	142	-135	120	Below Pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P1

Date: 9/29/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 21.75' Depth to Well Bottom: 52.83' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 19.2 Estimated Purge Volume (liters): 20

Sample ID: GW03-009A-P1 Sample Time: 1435 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1305	7.16	11.60	2.32	3.77	14	-191	360	21.71
1310	7.03	11.83	2.43	1.06	2	-233	170	21.75
1320	7.08	11.75	2.41	0.44	1	-253	180	21.71
1330	7.12	11.58	2.26	0.37	1	-267	235	21.71
1340	7.11	11.60	2.31	0.34	1	-275	240	21.71
1350	7.10	11.68	2.19	0.34	1	-278	240	21.76
1400	7.04	11.35	2.28	0.36	1	-283	240	21.76
1410	7.04	11.32	2.31	0.36	0	-286	230	21.77
1420	7.06	11.53	2.31	0.39	0	-286	235	21.79
1430	7.09	11.58	2.18	0.35	1	-287	240	21.71
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P2

Date: 10/9/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Tempest Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 35.65' Depth to Well Bottom: 87.81' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 32.2 Estimated Purge Volume (liters): 47

Sample ID: GW03-009A-P2 Sample Time: 1720 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1630	7.23	13.15	2.56	2.51	288	-277	880	35.70
1635	7.10	11.7	2.71	0.50	46.3	-290	980	35.72
1645	7.09	11.8	2.63	0.34	7.08	-290	980	35.72
1650	7.09	11.8	2.62	0.34	0.97	-294	920	35.65
1655	7.10	11.8	2.61	0.32	0.62	-297	900	35.68
1700	7.10	11.8	2.61	0.32	0.47	-301	940	35.70
1705	7.10	11.8	2.60	0.33	0.36	-303	960	35.70
1710	7.12	11.8	2.58	0.31	0.20	-306	900	35.71
1715	7.12	11.8	2.56	0.32	0.48	-309	920	35.72
1720	7.13	11.8	2.56	0.31	0.45	-310	960	35.72
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P3

Date: 10/13/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 45.61' Depth to Well Bottom: 117.19' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 44.2 Estimated Purge Volume (liters): 45.4

Sample ID: GW03-009A-P3 Sample Time: 1235 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1025	6.95	12.6	41.4	2.66	8.91	-228	520	45.15
1030	6.70	12.4	43.5	1.03	43.3	-206	375	44.60
1040	6.69	12.1	43.0	0.43	40.0	-269	620	53.30
1050	6.67	12.7	40.8	0.46	40.8	-291	260	54.01
1100	6.67	13.28	48.5	0.44	33.8	-302	200	54.61
1110	6.67	13.66	49.3	0.48	26.8	-317	170	55.37
1125	6.68	13.1	49.2	0.43	21.7	-327	240	56.68
1140	6.89	12.77	48.0	0.41	19.92	-334	700	58.71
1155	6.70	13.29	48.9	0.39	26.6	-334	190	64.46
1210	6.71	12.93	48.6	0.34	26.4	-338	335	69.49
1215	6.72	12.94	48.8	0.34	20.9	-339	240	70.29
1220	6.72	13.7	48.9	0.40	22.6	-333	180	72.96
1225	6.73	14.2	49.4	0.36	25.5	-337	185	74.05
1230	6.73	14.2	49.4	0.35	24.8	-337	165	74.95
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009B-P4

Date: 9/29/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 19.32' Depth to Well Bottom: 25.00' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 3.5 Estimated Purge Volume (liters): 12

Sample ID: GW03-009B-P4 Sample Time: 1325 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1225	6.87	14.48	2.94	0.36	1.35	148	390	19.49
1230	6.92	14.28	2.81	0.00	1.42	142	150	19.55
1235	6.92	14.26	2.80	0.00	0.44	141	165	19.55
1245	6.80	14.21	2.87	0.00	0.13	139	170	19.58
1255	6.90	14.31	2.89	0.00	0.35	135	180	19.58
1305	6.90	14.25	2.92	0.00	0.61	133	175	19.60
1315	6.90	14.21	2.96	0.00	0.18	129	170	19.60
1325	6.90	14.33	2.95	0.00	0.32	127	170	19.60
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009B-P5

Date: 9/29/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 20.72' Depth to Well Bottom: 43.00' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 13.7 Estimated Purge Volume (liters): 15

Sample ID: GW03-009B-P5 Sample Time: 1650 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (S/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1450	6.92	12.66	3.48	9.57	66.3	141	315	21.95
1455	6.87	13.05	3.46	7.55	11.3	141	125	23.90
1510	6.92	13.09	3.45	7.03	18.75	138	120	24.80
1515	6.95	13.26	3.45	6.65	13.89	134	120	25.60
1525	6.94	13.21	3.55	6.49	6.42	130	105	27.00
1535	6.94	12.95	3.56	6.20	6.05	130	125	27.42
1545	6.95	12.51	3.64	7.42	8.71	127	120	28.30
1555	6.95	12.49	3.62	7.35	8.13	129	125	28.00
1605	6.94	12.48	3.63	7.39	22	120	121	29.05
1615	6.91	12.47	3.80	2.37	20.1	121	120	29.09
1625	6.92	12.44	3.81	1.79	9.26	120	120	29.35
1630	6.92	12.46	3.80	1.62	9.01	121	120	29.60
1640	6.91	12.44	3.80	1.65	8.13	124	120	29.60
1650	6.92	12.83	3.89	0.80	8.95	120	100	29.64
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water is light gray

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009B-P6

Date: 9/30/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 19.40' Depth to Well Bottom: 70.90' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 31.8 Estimated Purge Volume (liters): 32

Sample ID: GW03-009B-P6 Sample Time: 1135 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0945	6.78	12.35	3.98	0.00	6.5	93	230	20.7
0950	6.79	12.38	3.99	0.00	1.8	82	225	21.1
0955	6.81	12.38	4.00	0.00	0.8	81	225	21.6
1000	6.83	12.45	3.99	0.00	0.6	77	220	21.3
1005	6.85	12.54	3.99	0.00	0.42	76	220	21.4
1015	6.87	12.55	3.99	0.00	0.46	77	230	21.4
1025	6.88	12.28	3.93	0.00	0.34	82	250	21.7
1035	6.90	12.42	3.77	0.00	0.53	84	285	22.3
1045	6.91	12.41	3.39	0.00	0.82	86	290	22.4
1100	6.92	12.49	3.25	0.00	0.78	90	315	22.7
1115	6.91	12.50	3.21	0.00	1.03	91	310	22.8
1130	6.91	12.40	3.17	0.00	1.07	93	310	22.8
1135	6.91	12.41	3.14	0.00	0.90	93	310	22.8
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P1

Date: 10/9/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 39.08' Depth to Well Bottom: 74.49' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 21.80 Estimated Purge Volume (liters): 29.0

Sample ID: GW03-010A-P1 Sample Time: 1715 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1535	7.23	12.35	2.91	2.93	47	-255	500	41.10
1540	7.07	12.27	2.89	0.83	64	-357	255	42.50
1545	7.07	12.81	2.86	0.68	37	-365	230	42.55
1550	7.07	13.15	2.83	0.51	20	-370	175	42.51
1600	7.05	12.07	2.85	0.47	6	-376	260	43.72
1610	7.05	12.32	2.85	0.33	5	-376	280	43.80
1620	7.03	12.13	2.84	0.33	5	-378	240	43.98
1630	7.03	12.01	2.85	0.31	4	-380	270	43.85
1640	7.02	11.86	2.87	0.30	2	-387	360	44.21
1650	7.02	11.88	2.94	0.35	1	-390	330	44.95
1700	7.00	11.68	3.00	0.31	1	-393	430	44.90
1710	6.99	11.64	3.04	0.31	1	-397	360	46.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P2

Date: 10/13/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Mini-Monsoon 3 stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 29.53' Depth to Well Bottom: 104.20' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 46.30 Estimated Purge Volume (liters): 48.0

Sample ID: GW03-010A-P2 Sample Time: 1510 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1345	10.68	17.39	2.12	7.01	15	-22	740	29.78
1350	7.30	10.93	3.32	0.68	12	-258	630	29.55
1400	7.18	10.75	3.39	0.28	1	-298	610	29.55
1415	7.18	10.73	3.37	0.23	1	-301	590	29.55
1430	7.16	10.71	3.36	0.22	0	-301	580	29.60
1445	7.18	10.93	3.34	0.24	0	-298	400	29.56
1500	7.14	12.02	3.38	0.43	0	-277	500	29.56
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P3

Date: 10/13/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 29.20' Depth to Well Bottom: 129.90' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 62.1 Estimated Purge Volume (liters): 68.0

Sample ID: GW03-010A-P3 Sample Time: 1210 (10/14/03) QA/QC: None

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	6.23	10.42	21.6	8.78	3.0	152	410	25.82
0900	6.84	10.07	48.0	1.14	11.0	-40	160	29.59
0910	6.88	9.86	48.7	0.42	10.0	-74	100	33.50
0920	6.92	10.27	48.0	0.38	4.0	-91	300	37.70
0930	6.93	10.25	47.2	0.39	3.0	-89	280	40.43
0940	6.94	10.08	47.5	0.43	2.0	-100	480	43.15
0950	7.15	10.40	45.3	0.39	1.0	-98	300	46.61
1000	7.00	10.42	45.0	0.30	1.0	-80	600	53.68
1010	7.02	10.50	42.9	0.26	1.0	-37	400	72.74
1020	6.99	11.00	42.3	0.33	1.0	-24	600	81.92
1030	6.94	11.26	41.0	0.38	1.0	-2	270	86.89
1040	6.93	11.63	38.7	0.77	1.0	-34	520	94.91
1050	7.05	12.35	37.0	1.25	1.0	-13	320	99.28
1105	7.02	13.21	34.7	1.87	1.0	-70	210	106.61
1120	7.12	13.33	25.1	3.14	5.0	-33	500	119.53
1125	7.02	13.04	24.8	3.06	7.0	-41	0	Below Pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Flow rate is not steady-controller will not keep a steady rate
Flow keeps stopping
Sampled for VOCs only

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P4

Date: 9/26/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 20.40' Depth to Well Bottom: 48.20' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 17.2 Estimated Purge Volume (liters): 31

Sample ID: GW03-010B-P4 Sample Time: 1210 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1055	6.72	10.8	1.23	3.47	326	12	440	20.43
1100	6.53	10.7	1.27	0.24	183	17	440	20.42
1110	6.64	10.6	1.32	0.00	33.4	-19	440	20.41
1115	6.66	10.6	1.33	0.00	22.4	-27	460	20.42
1125	6.68	10.6	1.32	0.00	10.91	-38	460	20.41
1130	6.68	10.5	1.30	0.00	7.05	-40	450	20.41
1135	6.68	10.5	1.29	0.00	11.8	-41	450	20.41
1140	6.67	10.5	1.29	0.00	7.14	-40	430	20.42
1145	6.67	10.5	1.31	0.00	6.30	-40	450	20.41
1150	6.66	10.6	1.33	0.00	2.08	-39	450	20.41
1155	6.66	10.5	1.30	0.00	2.13	-38	430	20.41
1200	6.65	10.6	1.32	0.00	1.39	-38	430	20.42
1205	6.65	10.5	1.31	0.00	1.01	-38	450	20.41
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Samples have sulfury odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P5

Date: 10/8/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump(GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 24.60' Depth to Well Bottom: 61.20' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 22.6 Estimated Purge Volume (liters): 23.0

Sample ID: GW03-010B-P5 Sample Time: 1040 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	6.82	10.63	2.05	2.03	397	-228	260	24.84
0900	7.01	10.48	2.02	0.75	215	-250	270	24.90
0905	7.06	10.40	1.99	0.48	76	-256	250	24.95
0910	7.09	10.36	2.01	0.40	15	-247	245	25.00
0915	7.08	10.41	2.02	0.37	9	-247	250	25.00
0925	7.08	10.38	2.00	0.34	4	-250	250	25.03
0935	7.18	10.54	1.98	0.35	2	-263	260	25.05
0945	7.11	10.61	1.98	0.32	2	-272	250	25.09
0955	7.09	10.61	1.96	0.32	1	-283	240	25.10
1005	7.09	10.56	1.95	0.32	2	-287	260	25.10
1015	7.13	10.65	1.95	0.31	1	-289	250	25.10
1025	7.21	10.73	1.93	0.30	2	-288	260	25.13
1035	7.16	10.70	1.90	0.30	1	-287	260	25.14
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Gas bubbles evident in water

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P6

Date: 10/9/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 35.83' Depth to Well Bottom: 88.22' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 32.3 Estimated Purge Volume (liters): 35.0

Sample ID: GW03-010B-P6 Sample Time: 1345 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1230	6.99	11.12	3.11	1.35	212	-260	1000	38.15
1235	7.04	11.02	3.12	0.43	32	-291	370	37.62
1245	7.04	11.06	3.16	0.33	32	-304	360	37.70
1255	7.03	10.97	3.17	0.30	32	-311	300	37.90
1305	7.02	10.81	3.15	0.27	1	-317	520	38.42
1315	7.01	10.76	3.14	0.24	0	-321	450	38.65
1325	7.01	10.82	3.14	0.26	0	-321	500	38.25
1335	7.01	10.77	3.13	0.24	0	-324	580	38.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010C-P7

Date: 9/26/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 20.31' Depth to Well Bottom: 26.62' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 3.9 Estimated Purge Volume (liters): 16

Sample ID: GW03-010C-P7 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0905	6.14	10.9	3.92	5.34	539	123	400	20.41
0910	6.24	10.9	3.86	0.46	80.0	98	440	20.42
0915	6.28	10.9	3.72	0.45	32.5	78	440	20.42
0920	6.30	10.9	3.40	0.13	15.97	70	440	20.42
0925	6.32	10.9	3.27	0.00	8.28	64	440	20.42
0930	6.33	10.9	3.16	0.00	4.50	57	430	20.42
0935	6.34	10.9	3.08	0.00	2.96	53	440	20.42
0940	6.35	11.0	3.00	0.00	2.16	49	420	20.42
0944	6.36	11.0	2.96	0.00	2.28	46	420	20.42
0947	6.36	11.0	2.92	0.00	1.86	44	420	20.42
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Instrumentation: Horiba U-22, Oakton ph meter

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P1

Date: 10/9/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 35.45' Depth to Well Bottom: 73.09' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 23.2 Estimated Purge Volume (liters): 30

Sample ID: GW03-011A-P1 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0920	7.18	11.11	1.72	4.99	409	-269	860	35.55
0925	6.94	11.18	2.75	0.62	331	-308	460	35.55
0930	6.97	11.28	2.75	0.40	104	-326	440	35.55
0935	7.03	11.25	2.73	0.35	16	-339	440	35.55
0940	7.03	11.23	2.69	0.31	4	-351	460	35.55
0945	7.03	11.23	2.66	0.29	2	-356	520	35.55
0955	7.01	11.32	2.60	0.29	2	-362	460	35.55
1000	7.02	11.27	2.59	0.29	2	-367	500	35.57
1005	7.01	11.25	2.56	0.28	1	-372	500	35.57
1010	7.01	11.32	2.55	0.27	1	-373	480	35.57
1020	7.01	11.46	2.55	0.27	1	-376	420	35.57
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P2

Date: 9/25/2003 10/14/2003 Sampling Personnel: S. Moeller, T. Urban, J. Grady, D. Tobin Company: URS Corporation

Purging/ Sampling Device: GeoPump/ Monsoon Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 24.65' Depth to Well Bottom: 107.80' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 51.3 Estimated Purge Volume (liters): 67

Sample ID: GW03-011A-P2 Sample Time: 1020 (10-14-03) QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1630	6.82	13.0	25.6	3.97	>100	-222	140	24.75
Checked tubing and hose connections								
1655	7.13	13.5	29.1	0.82	28.4	-283	130	24.77
1710	7.16	13.5	33.1	0.00	13.5	-313	130	24.78
1725	7.20	12.9	33.7	0.00	18.1	-323	130	24.78
1740	7.22	12.6	33.3	0.00	15.9	-328	125	24.80
1800	7.23	12.3	33.0	0.00	14.8	-331	125	24.82
Discontinued purging due to low flow rate-return on 10/14 with submersible pump								
0842	7.85	11.08	1.65	2.63	10	-132	950	25.42
0847	7.07	10.60	3.73	0.51	16	-252	820	25.48
0852	6.93	10.65	6.05	0.33	8	-320	820	25.48
0857	6.87	10.72	12.6	0.32	5	-358	780	25.48
0902	6.88	10.71	13.9	0.28	4	-369	790	25.48
0907	6.89	10.77	13.9	0.27	2	-373	740	25.48
0912	6.89	10.79	13.6	0.26	2	-375	740	25.48
0922	6.90	10.84	13.3	0.25	2	-376	710	25.48
0932	6.90	10.81	13.0	0.24	1	-378	700	25.48
0942	6.90	10.83	12.9	0.23	1	-377	680	25.48
0952	6.90	10.85	12.8	0.23	1	-377	650	25.48
1002	6.90	10.86	12.6	0.23	1	-377	650	25.48
1012	6.90	10.88	12.7	0.23	1	-377	650	25.48
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water is gray and has sulfur odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P3

Date: 10/13/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 27.54' Depth to Well Bottom: 135.11' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 66.4 Estimated Purge Volume (liters): 66.0

Sample ID: GW03-011A-P3 Sample Time: 1815 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1635	6.67	10.92	66.8	1.58	227	-334	850	29.52
1640	6.67	11.10	65.8	0.25	10	-346	650	27.87
1650	6.67	11.09	63.9	0.20	1	-359	640	27.88
1700	6.67	11.05	65.1	0.17	1	-372	640	27.88
1715	6.67	11.11	67.7	0.15	1	-377	580	27.82
1730	6.68	11.05	69.0	0.14	1	-382	700	27.96
1745	6.68	10.92	68.4	0.12	0	-385	700	27.96
1800	6.69	10.87	68.9	0.12	0	-386	670	27.89
1815	6.69	10.85	68.7	0.12	0	-387	670	27.94
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011B-P4

Date: 9/25/2003 Sampling Personnel: T. Urban, S. Moeller Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.16' Depth to Well Bottom: 49.62' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 21.9 Estimated Purge Volume (liters): 41

Sample ID: GW03-011B-P4 Sample Time: 1410 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1255	6.65	11.8	1.10	2.05	error	44	570	14.15
1310	6.73	11.55	0.97	0.00	error	-35	550	14.05
1320	6.79	11.5	1.00	0.00	error	-46	550	14.16
1330	6.78	11.5	0.92	0.00	error	-55	560	14.15
1340	6.80	11.55	0.93	0.00	1.63	-63	570	14.15
1350	6.82	11.40	0.89	0.00	1.38	-71	560	14.17
1358	6.83	11.49	0.91	0.00	1.48	-80	540	14.17
1403	6.84	11.49	0.91	0.00	1.10	-83	540	14.17
1408	6.83	11.52	0.90	0.00	1.04	-86	540	14.17
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Switched to Oakton turbidimeter at 1330

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011B-P5

Date: 10/9/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 86.00' Depth to Well Bottom: 89.50' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 2.4 Estimated Purge Volume (liters): 2.5

Sample ID: Not sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0825	6.94	11.17	2.54	1.57	405	-34	780	
0830	7.11	12.03	2.48	0.95		-99		
Depth to water not measurable due to pump. Return 10/10								
0820								87.00
0845								88.00
Return 10/14								
0805								DRY
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Purged to dryness and did not recharge

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011C-P7

Date: 9/25/2003 Sampling Personnel: J. Grady, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.10' Depth to Well Bottom: 33.70' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.1 Estimated Purge Volume (liters): 18

Sample ID: GW03-011C-P7 Sample Time: 1330 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1255	7.29	11.58	1.23	1.60	125	-27	720	14.10
1300	7.17	11.47	1.20	0.66	49.3	-62	530	14.10
1305	7.33	11.45	1.20	0.76	9.9	-88	530	14.10
1310	7.33	11.41	1.17	0.64	47.6	-100	560	14.10
1315	7.30	11.41	1.15	0.76	22.9	-110	510	14.10
1320	7.26	11.41	1.14	0.74	37.1	-111	520	14.10
1330	7.28	11.41	1.15	0.74	35.2	-110	520	14.10
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011C-P8

Date: 9/25/2003 Sampling Personnel: J. Grady, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 Peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.20' Depth to Well Bottom: 61.35' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 27.6 Estimated Purge Volume (liters): 29.0

Sample ID: GW03-011C-P8 Sample Time: 1805 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1505	8.15	12.27	1.42	4.00	400	-172	515	16.20
1510	6.95	11.71	1.32	0.47	38.8	-204	390	20.10
1515	7.21	11.82	1.25	0.53	26.8	-228	310	21.74
1520	7.21	12.25	1.23	0.41	128	-237	180	22.60
1525	7.17	12.33	1.29	0.40	101	-247	180	22.81
1530	7.15	12.30	1.30	0.45	156	-252	150	23.00
1535	7.14	12.49	1.29	0.47	112	-257	140	22.89
1550	7.09	12.63	1.32	0.55	73.6	-261	130	22.30
1605	7.07	12.19	1.29	0.54	139	-264	150	22.30
1625	7.10	12.25	1.25	0.43	168	-265	145	22.25
1650	7.09	12.19	1.33	0.52	147	-266	150	22.16
1720	6.99	12.10	1.26	0.38	2*	-268	150	22.03
1740	6.92	11.95	1.22	0.48	2*	-264	150	21.95
1800	6.97	11.76	1.26	0.43	1*	-263	150	22.05
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: * Switched turbidity measurements to Hach 2100 P instrument

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012A-P1

Date: 10/9/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: Dry Depth to Well Bottom: 58.91' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): Dry Estimated Purge Volume (liters): N/A

Sample ID: Not sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Well is dry.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012A-P2

Date: 10/9/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Monsoon 4-stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 66.82' Depth to Well Bottom: 111.51' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 27.57 Estimated Purge Volume (liters): 35

Sample ID: GW03-012A-P2 Sample Time: 1100 (10/10/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0846								65.47
0947	6.74	13.2	3.82	3.77	7	93	395	64.92
0955	6.64	12.0	4.12	1.35	36	97	495	64.92
1005	6.78	12.1	4.15	0.99	69	88	520	65.09
1015	6.81	12.2	4.15	1.02	12	87	530	65.14
1025	6.83	12.5	4.14	1.15	3	85	500	65.08
1035	6.83	12.4	4.15	1.19	2	84	560	65.00
1045	6.84	12.3	4.15	1.17	1	83	590	64.92
1055	6.84	12.3	4.15	1.20	1	81	610	64.95
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012A-P3

Date: 10/9/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Monsoon 4-stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 71.30' Depth to Well Bottom: 130.83' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 36.73 Estimated Purge Volume (liters): 83

Sample ID: GW03-012A-P3 Sample Time: 0845 (10/15/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1516	6.74	13.41	47.2	3.25	4.90	70	310	69.64
1530	6.66	13.80	>99.9	0.00	317	33	155	76.33
1540	6.64	16.11	>99.9	0.00	48.4	41	310	78.65
1550	6.78	13.10	>99.9	0.00	27.3	-9	255	81.05
1605	6.71	14.43	>99.9	0.00	11.65	5	100	85.00
1625	6.62	16.27	>99.9	0.00	21.8	26	0	87.00
1654	6.79	13.13	>99.9	0.00	3.9	-31	190	90.10
1705	6.86	12.75	>99.9	0.00	1.62	-59	365	92.90
1715	6.90	13.50	>99.9	0.00	2.19	-89	370	102.95
1725	6.87	13.02	>99.9	0.00	2.04	-78	780	108.01
1735	6.89	13.04	>99.9	0.00	1.94	-79	540	110.50
1745	6.89	13.38	>99.9	0.00	8.55	-76	470	117.42
1755	7.07	13.99	>99.9	0.00	3.55	-88	440	120.09
1805	7.09	14.23	81.4	0.00	6.45	-64	420	122.45
1820	7.05	13.90	61.0	0.00	2.92	-28	520	124.20
1830	7.19	13.68	65.8	0.00	4.05	-95	720	Below Pump
1840	pumped water down below pump intake							
return on 10/10								
0850								123.85
return on 10/14								
1410								101.15
1535								Below Pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water has an odor of decay

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P4

Date: 10/9/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Monsoon 4-stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 41.02' Depth to Well Bottom: 41.05' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 0.02 Estimated Purge Volume (liters): N/A

Sample ID: Not sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Well is essentially dry.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P5

Date: 10/9/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Monsoon 4-stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 60.79' Depth to Well Bottom: 66.97' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 3.81 Estimated Purge Volume (liters): 15

Sample ID: GW03-012B-P5 Sample Time: 1145 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1025	6.82	12.03	4.33	1.80	-	101	405	61.17
1030	6.89	12.43	4.28	0.40	-	78	400	61.40
1035	6.97	12.54	4.26	0.09	17.79	57	260	61.55
1045	7.05	12.94	4.21	0.00	5.09	36	270	61.91
1055	7.07	13.10	4.16	0.00	2.66	29	240	Below Pump
1105	7.08	13.37	4.14	0.00	12.89	29	170	Below Pump
1115	7.08	13.44	4.15	0.00	7.88	29	195	Below Pump
1125	7.08	13.82	4.13	0.00	6.70	30	70	Below Pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water level below top of pump-cannot measure

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P6

Date: 10/9/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Tsunami 3-stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 67.68' Depth to Well Bottom: 87.99' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.5 Estimated Purge Volume (liters): 71

Sample ID: GW03-012B-P5 Sample Time: 1845 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1645	7.16	12.61	3.46	0.00	231	-268	375	66.45
1657	7.15	11.95	3.60	0.00	-	-281	810	67.85
1705	7.15	12.09	3.58	0.00	5.69	-287	650	67.10
1718	7.13	12.16	3.48	0.00	10.72	-292	660	67.02
1728	7.11	11.91	3.39	0.00	8.40	-299	680	69.35
1738	7.12	11.86	3.32	0.00	3.52	-299	610	68.30
1748	7.12	11.92	3.32	0.00	3.76	-296	690	68.02
1800	7.12	11.69	3.42	0.00	8.50	-301	650	69.04
1810	7.15	11.56	3.34	0.00	10.72	-302	670	71.01
1812	7.12	11.45	3.47	0.00	4.13	-296	690	69.85
1820	7.13	11.40	3.38	0.00	6.19	-299	695	68.42
1835	7.12	11.52	3.41	0.00	5.62	-292	610	67.87
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012C-P7

Date: 10/9/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Bailer Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.04' Depth to Well Bottom: 26.84' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 0.5 Estimated Purge Volume (liters): 0.5

Sample ID: Not sampled Sample Time: N/A QA/QC: None

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1115	Dry after one bailer of water removed							
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Purged to dryness and did not recharge

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P1

Date: 10/8/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Submersible Pump - Mini Monsoon Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 44.16' Depth to Well Bottom: 58.36' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.8 Estimated Purge Volume (liters): 35

Sample ID: GW03-013A-P1 Sample Time: 1415 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1135	6.78	11.87	2.74	1.34	-	110	1000	44.70
1145	6.99	12.82	2.64	0.00	7.83	120	175	47.35
1155	7.06	13.29	2.62	0.00	6.47	116	190	45.98
1205	7.14	13.95	2.57	0.00	4.06	106	205	45.49
1215	7.14	14.38	2.52	0.00	1.40	97	240	45.31
1235	7.14	14.32	2.50	0.00	0.77	88	250	46.17
1245	7.14	14.35	2.48	0.00	0.32	81	230	46.19
1257	7.14	14.21	2.44	0.00	0.50	74	230	46.20
1305	7.14	14.25	2.40	0.00	0.56	69	230	46.21
1315	7.14	14.25	2.37	0.00	0.55	64	230	46.24
1335	7.15	14.19	2.30	0.00	0.44	58	230	46.20
1350	7.15	14.24	2.26	0.00	0.74	58	230	46.21
1356	7.15	14.25	2.23	0.00	0.35	59	230	46.22
1405	7.15	14.26	2.21	0.00	0.10	57	230	46.33
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P2

Date: 10/14/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 43.60' Depth to Well Bottom: 110.65' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 41.4 Estimated Purge Volume (liters): 53

Sample ID: GW03-013A-P2 Sample Time: 1050 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0930	6.09	11.34	0.48	4.93	3.56	79	490	43.33
0935	6.45	11.23	0.50	2.29	77.0	-9	490	43.33
0940	6.95	11.32	0.525	0.89	73.5	-126	460	43.28
0950	7.25	11.35	0.496	0.45	6.34	-174	870	43.19
1000	7.30	11.38	0.474	0.42	2.81	-173	810	43.09
1010	7.30	11.42	0.465	0.41	0.69	-171	890	43.00
1020	7.31	11.44	0.460	0.40	0.57	-170	760	42.97
1030	7.31	11.50	0.457	0.39	0.27	-170	750	42.94
1035	7.31	11.52	0.455	0.41	0.27	-170	790	42.92
1040	7.31	11.54	0.452	0.39	0.02	-170	760	42.90
1045	7.31	11.54	0.452	0.39	0.01	-170	720	42.87
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P3

Date: 10/13/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 42.19' Depth to Well Bottom: 133.03' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 56.0 Estimated Purge Volume (liters): 60

Sample ID: GW03-013A-P3 Sample Time: 1645 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1520	7.92	12.29	3.72	3.58	137	-191	720	42.06
1525	7.29	11.80	10.8	0.90	22.2	-275	820	42.06
1530	7.27	11.66	11.3	0.52	3.94	-329	880	42.06
1540	7.20	11.68	11.8	0.43	9.04	-360	830	42.10
1550	7.20	11.60	12.0	0.39	2.22	-363	910	42.06
1600	7.20	11.57	11.9	0.37	4.14	-361	900	42.01
1610	7.20	11.58	11.9	0.37	2.20	-359	880	42.06
1615	7.20	11.57	11.9	0.36	0.82	-359	870	42.04
1620	7.20	11.56	12.0	0.37	0.84	-358	810	41.98
1625	7.19	11.57	11.9	0.37	0.61	-357	850	42.07
1630	7.20	11.59	12.0	0.34	0.55	-356	840	42.03
1635	7.19	11.58	12.0	0.34	0.71	-356	860	42.04
1640	7.20	11.56	12.0	0.34	0.26	-355	850	42.02
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P4

Date: 10/8/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Mini-Typhoon Submersible 2-Stage Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 43.10' Depth to Well Bottom: 45.29' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.35 Estimated Purge Volume (liters): 10

Sample ID: GW03-013B-P4 Sample Time: 1715 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1625	7.18	12.7	2.91	0.67	44.0	43	475	42.45
1630	7.19	12.5	2.91	0.20	17.86	39	475	42.46
1635	7.20	12.5	2.90	0.00	7.15	35	475	42.46
1640	7.20	12.5	2.89	0.00	3.37	32	510	42.46
1645	7.20	12.5	2.87	0.00	1.77	30	530	42.53
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P5

Date: 10/8/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Mini-Monsoon Submersible 4-Stage Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 45.79' Depth to Well Bottom: 72.37' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 16.4 Estimated Purge Volume (liters): 21

Sample ID: GW03-013B-P5 Sample Time: 1134 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1000	8.00	12.1	2.58	5.03	-	-149	-	45.19
1013	8.06	12.4	2.58	2.71	33.9	-234	300	47.71
1020	8.05	12.4	2.56	2.32	74.7	-252	250	48.19
1030	8.02	13.0	2.54	1.91	14.77	-274	260	47.83
1040	8.06	12.7	2.57	1.40	12.98	-340	240	48.14
1050	8.08	12.7	2.57	1.06	8.36	-295	260	48.21
1100	8.06	12.7	2.60	0.00	8.54	-296	235	48.08
1110	8.06	12.7	2.64	0.00	4.23	-300	300	48.13
1120	8.06	12.7	2.64	0.00	2.78	-300	270	48.26
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P6

Date: 10/10/2003 Sampling Personnel: M. Holquist, T. Urban Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 49.30' Depth to Well Bottom: 84.13' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 21.5 Estimated Purge Volume (liters): 30

Sample ID: GW03-013B-P6 Sample Time: 1015 (10/15/03) QA/QC: None

Sample Paramaters: TCL VOCs; TCL SVOCs; TCL Pesticides; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; TOC

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1005	6.82	12.8	3.98	1.67	930	-116	310	51.80
1010	6.93	13.0	3.89	0.99	409	-143	175	53.33
1015	6.98	14.66	3.77	0.92	113	-148	85	54.00
1020	7.01	13.6	3.77	0.76	33.6	-158	90	55.98
1030	7.04	13.1	3.66	0.70	7.31	-159	640	58.97
1040	7.07	14.6	3.20	0.60	5.19	-151	100	63.55
1050	7.08	15.7	3.13	0.74	5.00	-140	80	65.02
1100	7.07	15.5	3.21	0.81	2.71	-138	280	66.74
1110	7.07	14.2	3.27	0.81	1.17	-142	145	68.60
1120	7.08	15.3	3.30	0.89	1.02	-137	145	70.25
1130	7.07	14.3	3.16	0.58	0.97	-147	205	73.55
1140	7.12	14.5	2.57	0.57	1.91	-134	365	79.70
1145	7.12	14.6	2.54	0.60	1.80	-133	355	79.75
1150	7.12	14.7	2.52	0.58	1.81	-132	460	79.74
1155	7.11	14.6	2.58	0.56	1.57	-136	400	79.74
1200	Pump quits							
	return on 10/13/03							
1440	-	-	-	-	-	-	-	80.65
return on 10/14/03								
0900	-	-	-	-	-	-	-	80.63
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013C-P7

Date: 10/8/2003 10/9/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Bailer Tubing Type: N/A Pump/Tubing Inlet Location: N/A

Measuring Point: Below Top of Riser Initial Depth to Water: 35.88' Depth to Well Bottom: 37.43' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 0.956 Estimated Purge Volume (liters): 1

Sample ID: GW03-013C-P7 Sample Time: 1630(10/8/03) 0900 (10/9/03) 1015 (10/15/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0912	7.35	12.4	1.91	5.45	-	44	-	37.35
1353	-	-	-	-	-	-	-	35.90
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P1

Date: 10/13/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible 3-Stage Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 29.82' Depth to Well Bottom: 72.51' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 26.34 Estimated Purge Volume (liters): 27

Sample ID: GW03-014A-P1 Sample Time: 0945 (10/14/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0955	6.63	11.96	5.21	0.00	12.61	-329	400	39.50
1010	6.68	12.88	4.34	0.00	8.92	-318	500	45.35
1020	6.72	13.48	4.11	0.00	7.97	-336	480	53.78
1030	6.77	13.83	3.97	0.00	16.34	-338	450	58.34
1040	6.82	14.20	3.78	0.00	22.30	-332	270	65.18
1058	6.80	15.18	3.76	0.00	15.28	-326		68.10
1105	pumped dry							
1352								68.45
return on 10/14/03								
0845								66.85
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Very strong H2S odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P2

Date: 10/13/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Bailer Tubing Type: N/A Pump/Tubing Inlet Location: N/A

Measuring Point: Below Top of Riser Initial Depth to Water: 117.97' Depth to Well Bottom: 122.00' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 2.4 Estimated Purge Volume (liters): 10

Sample ID: GW03-014A-P2 Sample Time: 1100 (10/14/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Alkalinity

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1310								117.97
1325	bailed dry after 2.5 gallons							
return on 10/14/03								
0845								119.39
1055								119.38
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P3

Date: 10/7/2003 Sampling Personnel: J. Grady, K. McGovern Company: URS Corporation

Purging/ Sampling Device: Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 37.30' Depth to Well Bottom: 148.15' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 68.4 Estimated Purge Volume (liters): 69

Sample ID: GW03-014A-P3 Sample Time: 1630 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1345	6.46	12.17	>99	0.53	30	-242	400	38.00
1355	6.35	11.75	>99	0.10	33	-229	380	38.30
1405	6.34	11.60	>99	0.10	19	-272	490	38.78
1415	6.32	11.62	>99	0.10	6	-303	420	38.95
1425	6.29	11.61	>99	0.09	2	-316	400	39.20
1435	6.27	11.65	>99	0.08	1	-321	430	39.34
1445	6.26	11.65	>99	0.07	0	-324	390	39.50
1455	6.26	11.69	>99	0.07	0	-326	370	39.60
1505	6.25	11.69	>99	0.07	0	-327	330	39.80
1515	6.25	12.23	>99	0.07	0	-328	460	39.30
1525	6.25	12.68	>99	0.08	0	-325	425	39.45
1535	6.25	11.80	>99	0.08	0	-327	340	39.60
1545	6.25	11.33	>99	0.06	0	-332	680	40.40
1605	6.23	11.32	>99	0.05	1	-338	660	40.90
1625	6.22	11.32	>99	0.05	1	-338	640	40.15
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Hydrogen Sulfide odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P4

Date: 10/6/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Geo Pump 2 Peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.55' Depth to Well Bottom: 51.20' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 15.2 Estimated Purge Volume (liters): 19

Sample ID: GW03-014B-P4 Sample Time: 1315 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1145	8.87	13.01	1.91	8.25	219	-7	200	26.49
1150	7.40	12.04	1.86	1.04	79	23	210	26.55
1155	7.42	11.63	1.87	1.03	16	18	215	26.52
1200	7.39	11.55	1.86	0.85	9	18	215	26.50
1205	7.37	11.46	1.85	0.78	6	17	210	26.50
1215	7.32	11.43	1.84	0.66	4	14	217	26.45
1225	7.30	11.32	1.84	0.63	2	10	220	26.45
1235	7.30	11.48	1.83	0.62	2	0	220	26.40
1245	7.27	11.35	1.82	0.57	2	-6	220	26.40
1255	7.27	11.43	1.82	0.54	4	-11	225	26.35
1305	7.26	11.34	1.82	0.51	2	-15	225	26.34
1315	7.25	11.36	1.82	0.53	1	-18	225	26.32
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P5

Date: 10/6/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Geo Pump 2 Peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 24.97' Depth to Well Bottom: 85.12' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 37.1 Estimated Purge Volume (liters): 22.0

Sample ID: GW03-014B-P5 Sample Time: 1730 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1530	7.32	12.22	2.00	3.32	39	-140	180	24.97
1535	7.22	11.91	2.00	1.00	38	-196	185	25.00
1545	7.19	11.79	1.99	0.58	12	-278	185	25.00
1555	7.19	11.85	1.99	0.49	10	-284	185	24.95
1605	7.20	11.84	1.99	0.48	9	-289	190	25.00
1615	7.19	11.84	2.00	0.46	8	-290	175	25.11
1625	7.20	11.90	1.99	0.47	12	-293	175	25.23
1635	7.21	11.91	1.99	0.48	5	-294	175	25.30
1645	7.19	11.83	1.99	0.46	6	-296	175	25.30
1655	7.19	11.79	1.99	0.48	4	-297	172	25.32
1705	7.20	11.77	2.01	0.46	3	-298	175	25.35
1715	7.19	11.82	1.98	0.47	3	-299	175	25.47
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water has many gas bubbles

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P6

Date: 10/7/2003 Sampling Personnel: J. Grady, K. McGovern Company: URS Corporation

Purging/ Sampling Device: Geo Pump 2 Peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.80' Depth to Well Bottom: 100.40' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 45.4 Estimated Purge Volume (liters): 19.0

Sample ID: GW03-014B-P6 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0815	7.55	11.22	0.910	4.79	42	-21	130	26.40
0825	7.85	11.54	0.908	1.08	12	-89	130	26.24
0835	7.77	11.61	0.894	0.83	9	-91	135	26.10
0845	7.74	11.62	0.902	0.63	7	-93	148	25.95
0855	7.76	11.60	0.902	0.58	7	-99	150	25.82
0905	7.73	11.66	0.895	0.56	6	-100	150	25.70
0915	7.75	11.60	0.898	0.58	4	-103	155	25.61
0925	7.76	11.69	0.897	0.53	3	-107	145	25.50
0935	7.76	11.71	0.878	0.56	2	-109	155	25.38
0945	7.76	11.75	0.886	0.49	2	-112	160	25.28
0955	7.76	11.69	0.888	0.53	2	-113	165	25.20
1005	7.75	11.68	0.901	0.39	2	-115	165	25.10
1015	7.75	11.77	0.901	0.38	1	-117	165	25.00
1025	7.75	11.75	0.901	0.37	1	-120	170	24.90
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014C-P7

Date: 10/6/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Geo Pump 2 Peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.74' Depth to Well Bottom: 36.47' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 6.0 Estimated Purge Volume (liters): 10.6

Sample ID: GW03-014C-P7 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0920	6.82	11.88	1.90	5.61	55	154	245	26.68
0925	7.10	11.79	1.87	2.21	14	144	265	26.63
0930	7.10	11.84	1.83	1.38	10	142	265	26.59
0935	7.10	11.87	1.82	1.54	7	140	270	26.58
0945	7.10	11.84	1.82	1.39	5	138	270	26.54
0950	7.10	11.87	1.77	1.38	4	137	270	26.50
1000	7.10	11.84	1.80	1.40	3	135	270	26.48
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P1

Date: 10/3/2003 Sampling Personnel: S. Moeller, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 23.97' Depth to Well Bottom: 66.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 26.2 Estimated Purge Volume (liters): 32

Sample ID: GW03-015A-P1 Sample Time: 1045 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0905	6.24	12.0	0.829	4.23	72.7	33	360	23.89
0915	6.97	12.1	0.641	0.62	18.6	-19	375	23.86
0925	7.08	12.2	0.982	0.20	8.52	-45	375	23.91
0935	7.10	12.2	0.947	0.00	5.02	-59	365	23.92
0945	7.12	12.3	0.909	0.12	0.95	-76	400	23.91
0955	7.15	12.3	0.870	0.03	1.06	-86	365	24.03
1005	7.15	12.3	0.857	0.00	1.26	-92	360	24.02
1015	7.17	12.3	0.853	0.00	0.52	-100	355	24.24
1025	7.18	12.4	0.854	0.00	0.72	-107	350	24.45
1030	7.19	12.4	0.855	0.00	0.88	-111	345	24.49
1035	7.20	12.4	0.837	0.00	0.49	-114	345	24.50
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water level fluctuations appear to be due more to some outside influence than our pumping

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P2

Date: 10/6/2003 10/13/2003 Sampling Personnel: S. Moeller, A. Brayman, C. Wasteneys Company: URS Corporation

Purging/ Sampling Device: multi-stage submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.78' (10-6-03) 26.85' (10-7-03) Depth to Well Bottom: 119.79' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 57.4 Estimated Purge Volume (liters): 61

Sample ID: GW03-015A-P2 Sample Time: 1830 (10-13-03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0958	5.83	12.2	90.1	7.30	>100	150	-	30.65
	attempted repair on pump							
1050	6.94	14.1	>99.9	6.40	40.9	-256	260	29.90
1100	6.79	14.0	>99.9	3.80	-	-269	-	29.93
	return with larger pump on 10-13-03							
1505	7.77	14.00	86.7	4.10	15.4	-177	360	27.80
1520	7.32	13.38	>99.9	0.00	24.9	-323	425	30.85
1530	7.24	13.84	>99.9	0.00	19.7	-330	360	33.96
1540	7.27	13.80	>99.9	0.00	8.39	-336	275	36.04
1550	7.30	13.78	>99.9	0.00	6.08	-338	285	37.74
1600	7.32	13.76	>99.9	0.00	4.51	-341	240	40.06
1610	7.32	13.81	>99.9	0.00	5.10	-347	250	42.24
1620	7.25	14.13	>99.9	0.00	20.2	-345	185	45.21
1630	7.29	14.00	>99.9	0.00	17.4	-346	210	48.08
1640	7.30	14.09	>99.9	0.00	6.13	-348	205	50.21
1650	7.33	13.57	>99.9	0.00	2.60	-351	300	53.33
1700	7.36	13.70	>99.9	0.00	2.91	-348	285	55.33
1710	7.30	14.18	>99.9	0.00	1.41	-349	205	56.83
1720	7.37	13.36	>99.9	0.00	2.26	-350	675	61.42
1730	7.37	13.92	>99.9	0.00	5.02	-344	245	missed
1740	7.38	13.48	>99.9	0.00	44.2	-343	355	66.95
1750	7.31	13.71	>99.9	0.00	15.3	-344	235	67.71
1800	7.35	13.26	>99.9	0.00	3.03	-351	355	70.02
1810	7.38	13.37	>99.9	0.00	1.50	-352	675	74.93
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water has a gray color and sulfur odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P3

Date: 10/13/2003 10/14/2003 Sampling Personnel: C. Wasteneys, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Disposable Bailer Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 144.98' Depth to Well Bottom: 148.90' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 2.4 Estimated Purge Volume (liters): 2.5

Sample ID: GW03-015A-P3 Sample Time: 1552 (10/14/03) QA/QC: None

Sample Parameters: TCL VOCs

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1735	7.02	12.73	66.5	1.71	962	74	-	
1748	6.90	12.07	27.8	2.86	cloudy	109	-	145.75
	stopped bailing-bailer ball won't seal							
	Return on 10-14							
0755	-	-	-	-	-	-	-	145.97
0805	6.29	9.76	90.0	4.56	-	-1	-	
0815	6.42	10.14	92.0	8.15	-	-14	-	
0820	-	-	-	-	-	-	-	147.50
0825	bailed dry							
1552	-	-	-	-	-	-	-	146.52
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P4

Date: 10/3/2003 Sampling Personnel: T. Urban, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 23.70' Depth to Well Bottom: 76.15' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 32.4 Estimated Purge Volume (liters): 14

Sample ID: GW03-015B-P4 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0845	6.99	10.9	1.99	0.06	65	-213	280	24.50
0850	7.11	11.5	2.00	0.00	29.1	-253	180	25.96
0855	7.11	11.5	1.97	0.00	16.2	-254	200	26.80
0900	7.11	11.4	1.95	0.00	11.8	-251	100	26.92
0910	7.09	11.5	1.92	0.00	4.93	-254	140	27.18
0920	7.09	11.5	1.95	0.00	2.17	-257	140	27.62
0930	7.07	11.6	1.94	0.00	1.59	-254	110	27.60
0940	7.07	11.6	1.93	0.00	0.99	-255	115	27.60
0955	7.08	11.6	1.93	0.00	0.56	-256	110	27.56
1000	7.08	11.6	1.92	0.00	0.28	-256	100	27.56
1010	7.08	11.7	1.94	0.00	0.14	-257	105	27.60
1015	7.08	11.7	1.93	0.00	0.19	-257	115	27.75
1020	7.09	11.7	1.93	0.00	0.39	-255	95	27.71
1025	7.08	11.8	1.93	0.00	0.38	-255	125	27.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P5

Date: 10/6/2003 Sampling Personnel: S. Moeller, A. Brayman Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 22.53' Depth to Well Bottom: 88.37' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 40.6 Estimated Purge Volume (liters): 42

Sample ID: GW03-015B-P5 Sample Time: 1140 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0936	7.12	11.9	0.90	8.52	4.89	-177	325	22.77
0946	6.91	11.8	1.03	0.69	2.39	-228	340	22.59
0956	7.01	11.7	0.94	0.00	1.27	-242	345	22.45
1006	7.06	11.7	0.886	0.00	1.21	-240	345	22.31
1016	6.99	11.7	0.871	0.00	1.17	-241	350	22.25
1026	6.99	11.8	0.873	0.00	0.76	-249	350	22.21
1036	7.06	11.9	0.873	0.00	0.87	-252	350	22.15
1046	7.08	11.7	0.860	0.00	0.86	-252	355	22.05
1056	7.08	11.8	0.860	0.00	0.62	-252	360	21.96
1106	7.08	11.8	0.863	0.00	0.53	-252	360	21.95
1116	7.09	11.8	0.871	0.00	0.57	-253	355	22.07
1126	7.07	11.9	0.91	0.00	0.75	-251	355	22.18
1131	7.08	11.8	0.92	0.00	0.77	-253	355	22.17
1136	7.08	11.8	0.92	0.00	0.46	-254	350	22.16
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P6

Date: 10/6/2003 Sampling Personnel: S. Moeller, A. Brayman Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 22.63' Depth to Well Bottom: 104.49' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 50.51 Estimated Purge Volume (liters): 63

Sample ID: GW03-015B-P6 Sample Time: 1710 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1323	7.27	12.7	0.845	10.52	8.13	-77	290	22.63
1330	6.77	11.9	1.800	0.96	5.66	-105	290	22.73
1340	7.00	12.0	1.760	0.00	2.27	-161	290	22.72
1350	7.01	12.0	1.300	0.00	2.25	-167	295	21.69
1400	6.97	12.0	1.040	0.33	2.38	-150	295	21.70
1410	6.94	12.0	0.872	0.62	1.79	-128	295	21.70
1420	6.87	12.0	0.790	1.18	1.32	-108	300	21.75
1430	6.82	12.0	0.737	1.17	0.99	-105	295	23.81
1440	6.87	12.0	0.667	2.06	0.88	-99	295	22.74
1450	6.85	12.0	0.661	2.17	1.89	-97	300	22.74
1500	6.85	12.0	0.639	2.45	0.65	-93	300	22.74
1510	6.83	12.0	0.637	2.49	0.51	-92	300	22.77
1520	6.84	12.0	0.602	2.43	0.50	-91	300	22.81
1530	6.81	12.0	0.600	2.43	0.50	-85	305	22.73
1540	6.81	12.0	0.978	2.75	0.51	-82	305	22.57
1550	6.79	12.0	0.968	1.85	0.39	-79	305	22.64
1600	6.80	12.0	0.954	2.79	0.32	-77	305	22.59
1610	6.98	12.0	0.968	2.41	0.42	-75	300	22.82
1620	6.80	12.0	0.955	2.75	0.31	-74	295	23.06
1630	6.81	12.0	0.944	2.68	0.36	-73	290	23.25
1640	6.77	12.0	0.906	2.71	0.07	-73	290	23.17
1650	6.78	11.9	0.894	2.72	0.27	-71	295	23.14
1655	6.79	12.0	0.891	2.74	0.33	-72	295	23.14
1700	6.78	11.9	0.888	2.64	0.32	-71	295	23.14
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015C-P7

Date: 10/2/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 24.79' Depth to Well Bottom: 56.58' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 19.6 Estimated Purge Volume (liters): 20

Sample ID: GW03-015C-P7 Sample Time: 1800 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1706	7.54	11.5	0.989	5.76	26.0	-163	400	24.82
1710	7.16	11.4	0.973	0.64	21.0	-166	380	24.82
1715	7.23	11.4	0.961	0.21	8.17	-176	390	24.81
1720	7.25	11.4	0.949	0.00	4.64	-183	385	24.81
1725	7.28	11.4	0.942	0.00	2.50	-188	390	24.82
1730	7.30	11.5	0.938	0.00	2.06	-191	400	24.84
1740	7.30	11.5	0.928	0.00	1.49	-193	390	24.85
1745	7.29	11.5	0.927	0.00	0.89	-194	400	24.85
1750	7.30	11.5	0.921	0.00	0.82	-195	380	24.86
1756	7.31	11.4	0.921	0.00	0.55	-196	390	24.86
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water has a sulfur odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P1

Date: 9/29/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.21' Depth to Well Bottom: 68.82' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 34.9 Estimated Purge Volume (liters): 41

Sample ID: GW03-016A-P1 Sample Time: 1050 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0935	7.76	15.9	2.02	4.00	50.0	124	610	12.21
0945	7.04	15.6	1.69	0.50	2.41	87	600	12.32
0955	7.05	15.5	1.39	0.79	0.64	79	580	12.35
1005	7.05	15.4	1.12	1.60	0.57	91	580	12.29
1015	7.02	15.3	1.06	2.54	0.55	81	590	12.21
1025	7.02	15.2	0.969	2.03	0.78	84	570	12.16
1030	7.01	15.2	0.954	2.70	0.78	84	580	12.15
1035	7.02	15.3	0.960	2.79	0.71	84	580	12.13
1040	7.01	15.3	0.936	2.76	0.57	84	590	12.12
1045	7.00	15.3	0.935	2.89	0.67	83	580	12.10
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P2

Date: 9/30/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.50' Depth to Well Bottom: 134.50' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 75.3 Estimated Purge Volume (liters): 77

Sample ID: GW03-016A-P2 Sample Time: 1355 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1121	6.53	17.2	1.05	2.86	17.92	-151	510	12.28
1126	7.30	16.5	1.73	1.43	1.78	-216	500	12.25
1136	7.37	16.4	1.81	0.29	0.02	-245	510	12.18
1145	7.40	16.3	1.82	0.18	0.01	-253	510	12.16
1155	7.41	16.1	1.83	0.07	0.03	-258	510	12.11
1205	7.40	15.9	1.83	0.06	0.49	-260	515	12.08
1215	7.41	15.8	1.84	0.03	0.60	-262	510	12.00
1225	7.40	15.9	1.84	0.00	0.87	-263	510	11.89
1235	7.42	15.7	1.84	0.00	0.74	-264	510	11.85
1245	7.42	15.8	1.84	0.00	0.48	-265	520	11.89
1255	7.42	15.7	1.84	0.00	0.47	-265	510	11.92
1305	7.43	15.6	1.84	0.00	0.40	-266	520	12.00
1315	7.42	15.6	1.84	0.00	0.15	-265	510	12.04
1320	7.42	15.5	1.84	0.00	0.11	-266	510	12.10
1330	7.40	15.5	1.84	0.00	0.04	-265	510	12.10
1340	7.42	15.5	1.85	0.00	0.32	-266	510	12.20
1345	7.44	15.6	1.85	0.00	0.20	-267	510	12.21
1350	7.43	15.6	1.86	0.00	-	-267	510	12.22
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P3

Date: 9/29/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.20' Depth to Well Bottom: 161.67' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 92.2 Estimated Purge Volume (liters): 33

Sample ID: GW03-016A-P3 Sample Time: 1510 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1217	7.08	17.34	3.85	4.92	87.0	-244	315	12.39
1225	6.83	17.19	34.0	0.08	77.1	-317	245	14.78
1235	6.86	17.20	32.2	0.00	24.3	-326	180	15.57
1245	6.86	17.13	31.2	0.00	10.14	-328	170	16.13
1255	6.86	17.32	31.8	0.00	8.50	-329	180	16.36
1305	6.87	17.23	31.1	0.00	12.34	-328	180	16.67
1315	6.89	17.01	30.9	0.00	10.87	-328	175	16.50
1325	6.89	17.11	30.0	0.00	5.89	-328	165	16.53
1335	6.90	17.12	28.0	0.00	5.06	-327	170	16.55
1345	6.91	16.94	28.6	0.00	4.94	-327	150	16.62
1355	6.91	17.44	28.2	0.00	4.87	-327	170	16.63
1410	6.94	16.81	28.8	0.00	4.44	-325	180	16.68
1420	6.92	17.01	27.9	0.00	3.80	-325	170	16.62
1430	6.93	16.70	27.1	0.00	3.37	-324	180	16.59
1440	6.90	17.27	27.1	0.00	2.90	-324	170	16.55
1450	6.91	17.30	27.2	0.00	3.08	-322	170	16.52
1455	6.93	17.05	27.0	0.00	3.06	-322	180	16.51
1500	6.94	16.87	27.2	0.00	3.14	-322	170	16.50
1505	6.93	16.84	27.0	0.00	3.12	-322	165	16.47
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: water has strong sulfury odor and leaves black staining on containers

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P4

Date: 9/29/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 13.23' Depth to Well Bottom: 47.97' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 21.4 Estimated Purge Volume (liters): 32

Sample ID: GW03-016B-P4 Sample Time: 1755 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1650	7.07	17.79	2.20	5.49	41.6	-183	580	13.23
1655	7.04	17.82	1.53	0.80	3.66	-203	570	13.21
1700	7.05	17.85	1.36	0.38	2.75	-207	590	13.22
1705	7.11	17.83	1.29	0.20	1.51	-205	600	13.24
1710	7.15	17.83	1.16	0.20	1.20	-196	600	13.25
1715	7.15	17.82	1.07	0.23	1.13	-186	570	13.27
1720	7.18	17.81	1.00	0.37	0.86	-180	580	13.30
1725	7.18	17.78	0.96	0.61	0.69	-173	570	13.35
1730	7.18	17.73	0.91	0.50	0.53	-165	560	13.42
1735	7.16	17.78	0.844	0.73	0.50	-160	550	13.55
1740	7.17	17.77	0.808	0.86	0.62	-162	560	13.69
1745	7.20	17.79	0.784	0.98	0.61	-159	560	13.85
1750	7.21	17.78	0.795	0.90	0.55	-158	550	14.01
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water level drop at 1730 to 1750 may be due to conduit not well pumping
Sulfur odor present

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P5

Date: 9/30/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.52' Depth to Well Bottom: 76.76' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 39.6 Estimated Purge Volume (liters): 23

Sample ID: GW03-016B-P5 Sample Time: 1745 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1505	7.12	16.3	2.09	1.58	26.3	-281	135	15.24
1510	7.14	16.6	2.00	1.40	18.1	-282	145	15.82
1520	7.19	16.8	1.59	1.09	9.23	-280	150	17.12
1530	7.21	16.8	1.49	0.12	6.22	-279	160	18.14
1540	7.21	17.0	1.48	0.75	5.82	-278	155	18.83
1550	7.19	16.8	1.47	0.67	4.80	-279	160	19.54
1600	7.19	16.5	1.45	0.62	3.79	-279	160	19.99
1610	7.17	16.6	1.45	0.83	3.03	-278	155	20.42
1620	7.20	16.6	1.45	0.68	3.13	-279	155	20.71
1630	7.18	16.4	1.43	0.69	3.15	-279	155	21.06
1640	7.20	16.1	1.41	0.62	2.82	-278	145	21.29
1650	7.20	16.0	1.42	0.76	2.98	-279	140	21.43
1700	7.19	16.0	1.42	0.64	3.11	-277	140	21.60
1710	7.20	16.5	1.42	0.83	3.17	-278	145	21.76
1720	7.22	16.5	1.40	0.88	2.51	-279	145	22.00
1730	7.21	16.2	1.40	0.86	2.85	-277	145	22.07
1735	7.22	16.0	1.40	0.85	2.98	-278	145	22.13
1740	7.20	15.9	1.40	0.90	2.77	-276	140	22.18
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P6

Date: 9/30/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.85' Depth to Well Bottom: 103.36' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 56.5 Estimated Purge Volume (liters): 60

Sample ID: GW03-016B-P6 Sample Time: 1800 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1455	7.67	16.67	0.990	5.57	17	-149	470	11.78
1500	7.61	16.80	1.27	0.67	7	-221	450	11.81
1505	7.60	16.88	1.26	0.46	3	-240	440	11.87
1515	7.61	16.92	1.14	0.75	2	-215	375	12.15
1530	7.67	17.08	0.94	1.82	1	-177	290	12.41
1540	7.68	17.13	0.90	2.17	2	-174	220	12.48
1550	7.72	17.16	0.90	2.38	1	-171	245	12.50
1600	7.69	17.06	0.83	2.44	1	-169	240	12.50
1620	7.68	17.19	0.86	2.49	1	-173	240	13.21
1640	7.70	17.01	0.957	2.85	1	-162	325	13.76
1700	7.71	16.93	0.99	3.06	1	-163	325	14.02
1720	7.75	16.88	0.882	3.34	1	-155	335	13.92
1740	7.73	16.97	0.870	3.61	1	-153	350	13.95
1745	7.73	16.94	0.878	3.44	1	-153	345	14.00
1750	7.73	16.89	0.899	3.40	1	-155	320	14.03
1755	7.72	16.93	0.912	3.29	1	-158	320	14.06
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016C-P7

Date: 9/30/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.10' Depth to Well Bottom: 31.85' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 10.95 Estimated Purge Volume (liters): 13.90

Sample ID: GW03-016C-P7 Sample Time: 0915 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0845	6.40	16.68	0.522	6.78	3.6	61	270	13.82
0850	7.57	17.50	0.464	5.37	1.0	49	480	13.78
0857	7.73	17.58	0.446	5.03	0.0	57	490	13.70
0903	7.75	17.62	0.441	5.78	0.0	61	490	13.62
0909	7.74	17.63	0.435	5.91	0.0	65	530	13.62
0915	7.78	17.63	0.431	6.11	0.0	69	520	13.55
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016C-P8

Date: 9/30/2003 Sampling Personnel: M. Nemeth, J. Grady Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.06' Depth to Well Bottom: 88.67' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 47.3 Estimated Purge Volume (liters): 55.2

Sample ID: GW03-016C-P8 Sample Time: 1245 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1045	7.75	17.45	0.561	4.05	1.8	38	450	12.33
1050	7.74	17.11	0.621	0.81	1	-32	470	12.41
1100	7.74	17.13	0.614	0.65	1	-39	490	12.38
1110	7.74	17.04	0.603	0.50	1	-40	490	12.21
1120	7.74	17.07	0.606	0.51	1	-40	480	12.12
1130	7.76	17.02	0.599	0.50	0	-40	460	12.01
1140	7.77	17.04	0.594	0.46	0	-41	460	11.99
1150	7.77	17.00	0.591	0.40	0	-43	440	11.94
1200	7.73	16.81	0.589	0.41	0	-44	460	11.90
1210	7.72	16.87	0.588	0.39	1	-44	440	11.82
1220	7.71	16.93	0.592	0.39	0	-45	440	11.70
1230	7.71	16.89	0.571	0.39	0	-44	470	11.65
1245	7.76	16.83	0.594	0.38	0	-44	430	11.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P1

Date: 9/24/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.00' Depth to Well Bottom: 121.95' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 70.3 Estimated Purge Volume (liters): 21

Sample ID: GW03-017A-P1 Sample Time: 1200 (10/2/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1215	error	19.1	0.362	3.3	424	59	460	11.70
1222	error	18.7	0.352	0.74	315	75	370	16.15
1230	error	18.9	0.374	1.18	447	52	240	21.70
1250	7.27	19.75	4.26	0.70	999	-324	240	24.20
1300	7.28	19.8	4.11	0.12	93.8	-321	160	24.95
1310	7.26	20.3	4.14	0.04	106	-314	200	26.04
1320	7.22	20.76	4.14	0.06	59	-307	105	27.06
1340	7.13	21.7	4.22	0.14	14	-298	80	28.50
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Switched instrumentation to Horiba meter at 1235
Pump quit flowing when water level was drawn down to 29'
Sulfur odor present

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P1

Date: 10/1/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: Mini-Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.22' Depth to Well Bottom: 121.95' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 67.7 Estimated Purge Volume (liters): 50

Sample ID: GW-03-017A-P1 Sample Time: 1200 (10/2/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1618	6.94	16.8	4.04	1.40	4.78	-295	490	13.80
1623	7.05	15.7	4.33	0.09	7.39	-308	160	15.93
1630	7.06	16.9	4.30	0.00	4.61	-317	290	19.50
1635	7.10	16.7	4.27	0.00	5.39	-323	250	22.75
1645	7.20	14.5	4.34	0.00	6.53	-326	90	24.31
1650	7.22	13.9	4.35	0.00	8.90	-326	75	24.54
1700	7.13	16.1	4.27	0.00	8.54	-328	175	28.64
1710	7.18	15.5	4.21	0.00	7.07	-334	115	31.19
1725	7.16	16.4	4.15	0.00	5.20	-339	140	33.57
1740	7.12	17.0	4.09	0.00	4.66	-338	245	35.05
1755	7.20	15.5	4.14	0.00	4.64	-344	200	37.01
1810	7.14	16.6	4.07	0.00	3.38	-344	140	38.14
1820	7.13	17.6	4.12	0.00	4.79	-346	1100	43.30
return on 10-2-03								
1057	6.97	17.5	3.84	4.22	10.90	-294	450	9.98
1110	7.01	15.9	4.24	2.76	2.24	-325	155	13.88
1120	7.00	16.3	4.38	2.22	5.96	-328	270	16.08
1130	7.04	14.7	4.39	2.12	5.87	-327	100	16.94
1140	7.09	15.6	4.42	1.18	3.61	-324	280	17.40
1150	7.00	16.3	4.35	1.44	9.24	-329	75	19.22
1518	completed sampling							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: On 10-1-03 pump quit flowing when water level was drawn down to 56.9'
sulfury odor on purge water

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P2

Date: 9/24/2003 Sampling Personnel: D. Cofield, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.92' Depth to Well Bottom: 137.50' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 80.0 Estimated Purge Volume (liters): 80

Sample ID: GW-03-017A-P2 Sample Time: 1745 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (S/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1448	11.01	20.3	3.72	2.39	18.7	188	320	8.15
1458	11.03	19.3	3.77	1.36	3.1	-200	300	8.23
1505	11.02	19.0	3.74	0.83	6.2	-201	300	8.35
1510	10.98	18.5	3.48	0.25	11	-212	350	8.50
1530	9.12	18.3	2.65	0.00	22	-174	340	8.65
1545	8.74	18.2	2.72	0.00	11	-268	350	8.59
1600	8.66	17.4	2.80	0.00	21	-287	470	8.43
1615	8.47	16.9	2.87	0.00	15	-263	530	8.40
1630	8.31	16.7	2.89	0.00	18	-253	525	8.62
1645	8.25	16.6	2.89	0.00	14	-252	520	8.93
1700	8.16	16.5	2.91	0.00	15	-247	550	8.80
1715	8.10	16.5	2.92	0.00	19	-246	525	8.78
1730	8.20	16.4	2.91	0.00	23	-261	515	9.10
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P3

Date: 9/24/2003 9/25/2003 Sampling Personnel: S. Moeller Company: URS Corporation

Purging/ Sampling Device: Disposable Bailer Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 160.92' Depth to Well Bottom: 169.50' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.3 Estimated Purge Volume (liters): N/A

Sample ID: Not sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1110	6.46	14.12	76.2	4.96	25.9	-20	-	-
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Bailed 5 times and checked water level. Water level was 161.2' indicating well has good recharge.
Water leaks out of bailer while being retrieved.
Bailed with a 1 inch bailer, due to obstruction in well.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017B-P4

Date: 9/24/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.81' Depth to Well Bottom: 59.45' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 31.9 Estimated Purge Volume (liters): 44

Sample ID: GW03-017B-P4 Sample Time: 1145 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1020	6.44	17.6	1.29	2.28	>100	190	450	7.62
1035	6.88	17.3	0.816	3.71	45.9	186	570	7.74
1045	7.06	17.4	0.999	5.56	14.3	200	450	7.77
1055	7.10	17.5	0.953	6.39	8.3	204	570	7.75
1105	7.10	17.5	0.850	6.94	5.4	211	570	7.73
1115	7.10	17.6	0.794	6.13	8.2	208	560	7.72
1125	7.15	17.7	0.757	5.95	3.9	210	530	7.69
1130	7.15	17.7	0.755	5.93	3.7	211	560	7.69
1135	7.15	17.8	0.769	5.89	3.1	212	550	7.68
1140	7.14	17.8	0.770	5.89	3.0	212	550	7.68
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017B-P5

Date: 9/25/2003 Sampling Personnel: S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.51' Depth to Well Bottom: 82.55' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 45.1 Estimated Purge Volume (liters): 46

Sample ID: GW03-017B-P5 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0823	6.42	17.2	0.893	1.39	48.7	-43	500	10.25
0833	7.06	17.5	0.705	2.04	11.4	-169	520	9.96
0843	7.13	17.6	0.559	3.11	21.1	-152	520	9.80
0853	7.17	17.8	0.912	3.69	6.6	-144	520	9.66
0903	7.20	17.9	0.873	4.18	4.9	-136	540	9.59
0913	7.20	17.9	0.841	4.37	6.9	-132	510	9.58
0923	7.21	18.0	0.812	4.35	5.3	-130	510	9.58
0933	7.21	18.0	0.790	4.34	4.2	-131	510	9.48
0943	7.22	18.0	0.772	4.30	4.8	-128	510	9.30
0948	7.23	18.1	0.758	4.42	11.5	-129	520	9.17
0953	7.23	18.0	0.767	4.48	5.6	-126	510	9.00
0958	7.23	18.0	0.763	4.49	3.6	-129	530	8.90
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017B-P6

Date: 9/25/2003 Sampling Personnel: J. Grady, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.10' Depth to Well Bottom: 104.33' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 62 Estimated Purge Volume (liters): 62

Sample ID: GW03-017B-P6 Sample Time: 1050 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0841	6.34	16.8	0.5	5.4	151	65	490	10.10
0850	7.29	16.98	0.44	5.46	41.9	37	510	9.90
0900	7.49	17.02	0.448	5.15	21.4	29	480	9.74
0910	7.57	17.05	0.45	6.18	19.5	29	490	9.70
0920	7.60	17.07	0.468	6.10	4.9	28	510	9.70
0930	7.64	17.09	0.468	5.99	20.3	26	490	9.60
0940	7.65	17.11	0.473	6.11	6.4	32	490	9.45
0950	7.68	17.12	0.469	5.58	6.7	47	470	9.15
1000	7.69	17.16	0.467	5.65	5.7	50	480	8.90
1015	7.70	17.19	0.474	5.65	10.8	53	480	8.60
1030	7.68	17.19	0.488	5.41	5.0	53	490	8.55
1045	7.71	17.22	0.487	5.61	11.4	53	490	8.55
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P7

Date: 9/24/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.08' Depth to Well Bottom: 34.29' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 16.17 Estimated Purge Volume (liters): 17

Sample ID: GW03-017C-P7 Sample Time: 1130 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1040	7.26	17.67	0.764	1.00	18.1	189	920	8.13
1045	7.91	18.08	0.776	1.02	41.1	166	840	8.13
1050	7.98	18.30	0.725	1.93	9.5	157	820	8.14
1055	7.95	18.41	0.707	2.32	3.4	160	700	8.14
1102	7.92	18.49	0.699	2.81	3.3	162	710	8.12
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P8

Date: 9/24/2003 Sampling Personnel: J. Grady, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.68' Depth to Well Bottom: 52.57' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 27.7 Estimated Purge Volume (liters): 28

Sample ID: GW03-017C-P8 Sample Time: 1500 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1405	8.41	16.27	0.95	7.62	26.0	100	690	7.68
1410	8.15	15.58	0.904	4.34	9.7	134	690	7.93
1415	8.05	15.47	0.742	3.08	13.8	145	710	7.95
1420	8.02	15.52	0.675	1.63	13.7	146	700	7.96
1425	7.99	15.50	0.663	1.45	9.5	150	620	7.95
1430	7.94	15.48	0.654	1.37	6.1	154	610	7.94
1435	7.96	15.49	0.655	1.36	8.7	153	580	7.96
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P9

Date: 9/24/2003 10/1/2003 Sampling Personnel: J. Grady, M. Nemeth S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic/Monsoon Sub. Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.19' Depth to Well Bottom: 95.60' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 54.72 Estimated Purge Volume (liters): 60

Sample ID: GW03-017C-P9 Sample Time: 930 (10/2/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1540	7.12	16.70	3.64	1.11	40.0	-73	560	10.71
1545	7.21	16.93	3.60	0.55	32.3	-263	400	14.52
1557	7.18	17.24	3.53	0.85	55.2	-279	160	17.24
1610	7.13	17.24	3.30	0.47	72.1	-275	155	20.35
1625	7.11	17.82	3.22	0.69	74.5	-265	150	22.42
1644	7.12	17.45	3.35	0.66	65.5	-268	130	25.53
1658	7.11	17.48	3.41	0.70	72.6	-264	105	27.18
1713	7.09	17.82	3.57	0.82	84.5	-258	75	28.72
resume purging on 10-1-03								
1033	6.95	14.4	1.72	3.82	28.7	-43	160	5.60
1040	6.85	14.7	3.64	0.48	8.45	-229	290	7.62
1050	6.92	13.5	3.62	0.62	10.26	-236	190	9.19
1100	7.01	12.0	3.56	0.33	8.61	-238	90	10.24
1110	6.92	15.9	3.20	0.06	8.39	-233	165	12.95
1120	7.02	15.1	3.00	0.00	5.73	-237	180	16.52
1130	7.00	15.4	2.99	0.00	4.68	-235	90	18.75
1140	6.98	14.9	2.99	0.00	4.83	-233	310	21.45
1150	7.03	15.0	2.89	0.00	6.65	-235	110	24.15
1205	6.98	16.0	2.80	0.00	4.78	-227	390	28.95
1220	6.95	16.2	2.62	0.00	6.45	-219	330	33.89
1235	6.99	15.8	2.41	0.00	10.42	-220	130	38.65
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Peristaltic pump changed out for submersible pump
Sulfur odor present

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P9

Date: 9/24/2003 10/1/2003 Sampling Personnel: J. Grady, M. Nemeth S. Moeller, T. Urban Company: URS Corporation

Purging/ Sampling Device: Mini-Monsoon 3 stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.91' Depth to Well Bottom: 95.60' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 54.72 Estimated Purge Volume (liters): 60

Sample ID: GW03-017C-P9 Sample Time: 0930 (10/2/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium, and Mercury; Total Hardness; Methyl Mercury; TCDD; TOC; TDS; TSS; Inorganic Ions; Alkalinity; Total Coliforms; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1250	6.93	16.5	2.10	0.00	12.36	-202	455	40.10
1305	7.02	15.1	1.96	0.00	17.18	-217	200	44.81
1320	7.01	15.3	1.91	0.00	18.55	-225	160	48.47
1335	7.03	16.4	1.73	0.04	21.10	-218	150	53.58
1350	7.02	16.1	1.78	0.14	26.4	-220	100	56.81
1405	7.05	15.6	1.75	0.29	26.0	-219	150	58.84
1420	6.98	15.8	1.84	0.47	17.74	-218	150	61.49
1435	6.99	15.3	1.97	0.60	14.25	-222	120	64.25
1450	7.00	15.9	1.85	1.12	15.71	-213	120	69.32
1505	6.99	11.5	1.85	1.08	14.25	-203	450	72.39
1520	7.01	14.2	1.88	1.48	15.27	-210	145	75.36
1535	7.14	9.4	1.95	1.42	13.47	-206	43	75.90
1550	pump stopped producing water							75.65
	return on 10/2							
0925	6.60	15.7	3.77	1.47	25.5	-259	690	36.38
0930	6.71	15.3	4.44	0.53	24.2	-305	320	40.31
1035		sampling completed						56.90
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Peristaltic pump changed out for submersible pump
Sulfur odor presnt

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-001A-P1

Date: 12/8/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 3.30' Depth to Well Bottom: 28.70' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 15.7 Estimated Purge Volume (liters): 25

Sample ID: GW03-001A-P1 Sample Time: 1540 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1455	7.35	10.15	2.69	7.72	9	-123	710	3.42
1500	7.32	10.23	2.69	1.75	1	-208	610	3.52
1505	7.28	10.28	3.22	1.20	1	-288	620	3.63
1510	7.27	10.30	3.38	1.02	1	-306	550	3.66
1515	7.26	10.29	3.39	0.96	1	-311	605	3.70
1520	7.26	10.32	3.45	0.91	1	-315	605	3.72
1525	7.25	10.36	3.42	0.84	1	-320	605	3.78
1530	7.25	10.36	3.41	0.78	1	-321	630	3.81
1535	7.25	10.37	3.38	0.72	1	-322	620	3.85
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-001A-P2

Date: 12/11/2003 Sampling Personnel: M. Holquist, K. Jackson Company: URS Corporation

Purging/ Sampling Device: Tempest Submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.53' Depth to Well Bottom: 52.35' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 28.9 Estimated Purge Volume (liters): N/A

Sample ID: NOT SAMPLED Sample Time: N/A QA/QC: None

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1355	6.52	9.47	36.2	0.00	5.42	-40	820	10.40
1400	6.67	8.75	33.9	0.00	4.17	9	330	11.70
1405	6.69	8.24	33.9	0.00	3.78	76	340	13.05
1415	6.67	8.60	33.8	0.00	3.30	73	300	16.20
1430	6.68	9.47	31.7	0.00	2.19	75	970	21.20
1445	6.78	9.07	28.3	0.00	3.72	82	250	29.80
1455	No water flow from pump							37.20
Return on 12/12/03								
0905	6.20	9.05	28.4	2.91	44.0	83		36.28
0915	6.80	9.16	25.6	1.44	39.0	68		48.90
0925	6.74	9.02	34.4	8.35	106	-20		52.30
Purged dry								
Return on 12/15/03								
0930	Still dry							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Purged to dryness and did not recharge

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-002A-P1

Date: 12/9/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.30' Depth to Well Bottom: 30.10' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.7 Estimated Purge Volume (liters): 24

Sample ID: GW03-002A-P1 Sample Time: 1130 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1015	6.74	10.36	1.71	7.20	21	-68	440	6.75
1020	7.25	10.25	1.39	2.19	12	-212	310	7.73
1025	7.29	10.32	1.28	1.95	6	-229	330	7.55
1030	7.30	10.32	1.28	1.81	2	-237	320	7.60
1040	7.29	10.38	1.28	1.56	1	-250	350	7.70
1050	7.29	10.39	1.29	1.42	1	-261	340	7.80
1100	7.29	10.45	1.29	1.26	0	-266	340	7.80
1110	7.28	10.48	1.30	0.93	1	-270	350	7.90
1120	7.28	10.50	1.29	1.05	0	-274	360	7.92
1125	7.28	10.55	1.31	1.01	0	-274	360	8.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-002A-P2

Date: 12/11/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Disposable bailer Tubing Type: N/A Pump/Tubing Inlet Location: N/A

Measuring Point: Below Top of Riser Initial Depth to Water: 46.75' Depth to Well Bottom: 48.45' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.1 Estimated Purge Volume (liters): 1.5

Sample ID: GW03-002A-P2 Sample Time: 0830 (12/12/03) QA/QC: None

Sample Parameters: TCL VOCs; TOC; Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury Total Coliforms/ E. Coli; Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1418	6.77	9.43	19.4	5.18	452	83	-	-
Bailed well dry								
Returned on 12/15/03								
0850	well is still dry							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-003A-P1

Date: 12/2/2003 Sampling Personnel: J. Grady Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.42' Depth to Well Bottom: 30.10' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.76 Estimated Purge Volume (liters): 15

Sample ID: GW03-003A-P1 Sample Time: 0935 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0845	6.82	10.32	1.95	2.93	78	31	300	9.50
0850	7.04	10.26	2.07	0.67	169	-33	300	9.52
0855	7.13	10.29	1.90	0.23	9	-47	310	9.60
0900	7.16	10.84	1.93	0.00	3	-52	360	9.62
0905	7.16	10.80	1.94	0.00	2	-54	360	9.65
0910	7.17	10.78	1.95	0.00	1	-57	360	9.70
0920	7.18	10.80	1.95	0.00	2	-59	370	9.71
0930	7.18	11.14	1.93	0.00	1	-62	380	9.75
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-003A-P2

Date: 12/2/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.65' Depth to Well Bottom: 50.33' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 25.1 Estimated Purge Volume (liters): 34

Sample ID: GW03-003A-P2 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	6.35	8.99	2.86	4.02	6.09	-42	450	10.40
0900	6.90	10.17	2.84	0.00	1.26	-139	470	10.80
0905	6.97	10.17	2.86	0.00	0.88	-155	480	10.80
0910	6.97	10.14	2.82	0.00	1.73	-175	480	10.90
0920	6.97	10.06	2.78	0.00	1.73	-188	520	10.95
0930	6.98	10.23	2.75	0.00	2.33	-194	530	11.00
0940	6.97	10.27	2.70	0.00	0.85	-199	550	11.10
0950	6.97	10.26	2.70	0.00	0.68	-200	590	11.15
0955	6.97	10.25	2.67	0.00	0.46	-202	640	11.15
1000	6.97	10.26	2.63	0.00	0.45	-203	580	11.15
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-004A-P1

Date: 12/2/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.87' Depth to Well Bottom: 17.40' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 7.5 Estimated Purge Volume (liters): 7.5

Sample ID: GW03-004A-P1 Sample Time: 1345 (12/3/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1140	7.41	8.32	2.49	6.16	2.16	20	240	6.25
1145	7.35	8.43	2.47	4.40	2.38	34	150	8.15
1150	7.34	7.96	2.50	3.93	2.12	44	150	8.95
1200	7.33	7.61	2.50	3.68	2.07	50	130	10.10
1210	7.33	7.79	2.49	3.75	2.34	55	140	11.30
1220	purged to dryness							
returned on 12/3/03								
1345	7.11	9.63	2.58	1.75	17.0	-143	240	9.72
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Sampled on 12/3/03

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-004A-P2

Date: 12/2/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.15' Depth to Well Bottom: 31.18' Well Diameter: 2-Inch Screen Length: 8.7'

Casing Type: PVC Volume in 1 Well Casing (liters): 13.0 Estimated Purge Volume (liters): 22

Sample ID: GW03-004A-P2 Sample Time: 1520 (12/3/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1250	7.37	8.11	1.92	4.86	18.9	-194	240	11.23
1255	7.32	9.10	1.87	0.56	6.8	-211	240	13.05
1300	7.32	9.37	1.85	0.00	6.58	-218	200	13.70
1305	7.37	9.25	1.84	0.00	3.88	-205	195	15.90
1315	7.45	9.12	1.84	0.97	1.99	-165	195	17.55
1325	7.45	8.95	1.84	1.17	2.08	-157	185	19.45
1340	7.43	9.01	1.82	0.97	1.37	-156	190	22.30
1355	7.37	9.02	1.78	0.28	1.14	-157	180	23.30
1410	7.30	9.12	1.79	0.00	1.55	-160	180	24.10
1420	7.28	8.86	1.81	0.00	1.64	-161	190	24.80
1425	7.27	9.15	1.80	0.32	1.20	-164	170	25.10
1430	7.28	8.96	1.83	0.21	1.17	-183	195	25.35
1435	7.28	8.99	1.83	1.02	1.69	-194	180	25.70
1445	7.27	8.98	1.83	0.95	2.79	-187	180	26.25
1455	7.26	9.49	1.86	0.00	4.08	-180	250	26.90
1505	purged to dryness							
returned to sample on 12/3/03								
1520	7.62	7.16	2.22	1.77	23.9	-142		25.53
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Sampled on 12/3/03

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-005A-P1

Date: 12/4/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 2.38' Depth to Well Bottom: 26.11' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.6 Estimated Purge Volume (liters): 18

Sample ID: GW03-005A-P1 Sample Time: 0935 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0900	6.88	10.27	6.89	0.16	1.90	-227	470	2.45
0905	6.97	11.23	6.88	0.00	0.68	-256	540	2.45
0910	6.97	11.19	6.94	0.00	0.44	-272	460	2.45
0915	6.96	11.10	6.96	0.00	0.41	-279	490	2.45
0920	6.95	11.24	6.94	0.00	0.54	-284	540	2.46
0925	6.94	11.33	6.94	0.00	0.41	-293	550	2.46
0930	6.93	11.39	6.92	0.00	2.46	-307	480	2.46
0935	6.93	11.13	6.94	0.00	1.59	-317	590	2.46
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-005A-P1

Date: 12/8/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 1.97' Depth to Well Bottom: 26.11' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.9 Estimated Purge Volume (liters): 20

Sample ID: GW03-005A-P1 Sample Time: 1505 QA/QC: None

Sample Parameters: Total Coliforms/ E. Coli; Hetertrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1435	7.06	10.65	7.03	0.66	30.1	-297	760	2.06
1440	7.03	10.73	6.97	0.00	3.96	-305	640	2.06
1445	6.99	10.81	6.91	0.00	3.16	-320	640	2.06
1450	6.99	10.83	6.87	0.00	0.65	-327	660	2.06
1455	6.97	10.84	6.84	0.00	1.04	-331	660	2.06
1500	6.97	10.87	6.80	0.00	0.57	-334	660	2.06
1505	6.96	10.87	6.79	0.00	0.83	-335	660	2.06
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-005A-P2

Date: 12/9/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Tempest submersible/ Disposible bailer Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.77' Depth to Well Bottom: 46.50' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 24.5 Estimated Purge Volume (liters): 40

Sample ID: GW03-005A-P2 Sample Time: 0840 (12/10/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	pump flow problems							
1005	7.32	9.67	14.3	0.40	1000	-246	350	12.65
1010	7.31	9.68	14.2	0.00	1000	-275	170	14.80
1025	7.35	8.87	14.2	0.00	217	-298	410	17.70
1035	7.37	10.46	13.8	0.00	97.3	-316	700	20.85
1040	7.41	10.37	13.6	0.00	58.3	-327	280	22.95
1055	7.41	10.10	13.4	0.00	77.7	-327	260	29.90
1110	7.47	10.02	14.5	0.00	88.4	-280	290	32.00
1125	7.40	10.42	14.3	0.00	54.9	-320	210	34.20
1140	7.40	10.62	14.1	0.00	53.0	-324	400	37.90
1155	7.43	10.64	14.1	0.00	92.5	-322	245	39.75
1210	7.47	10.83	14.3	0.00	-	-300	-	40.70
Pump flow problems. Pull pump and reinstall on 12/10/03								
0830	Pump failed during sampling. Used bailer to complete sampling							32.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006A-P1

Date: 12/2/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.88' Depth to Well Bottom: 25.70' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.14 Estimated Purge Volume (liters): 14

Sample ID: GW03-006A-P1 Sample Time: 1355 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1315	7.37	11.24	1.19	6.04	115	-135	620	10.89
1320	7.36	11.12	1.24	1.57	28	-145	380	10.88
1325	7.21	11.05	1.41	0.80	12	-140	390	10.88
1330	7.31	11.06	1.48	0.42	7	-135	390	10.88
1335	7.15	11.00	1.52	0.09	6	-130	390	10.87
1340	7.13	11.08	1.58	0.00	5	-123	390	10.88
1345	7.30	11.05	1.48	0.00	10	-131	410	10.88
1350	7.24	11.15	1.52	0.00	3	-130	410	10.88
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006B-P2

Date: 12/8/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.18' Depth to Well Bottom: 53.30' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 22.9 Estimated Purge Volume (liters): 23

Sample ID: GW03-006B-P2 Sample Time: 1015 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0930	7.27	10.10	5.46	7.54	82	-239	510	16.20
0935	7.19	10.19	5.29	1.64	15	-281	570	16.20
0940	7.18	10.17	5.15	1.06	5	-294	580	16.20
0945	7.15	10.21	5.16	0.88	2	-302	570	16.21
0950	7.15	10.17	5.22	0.82	1	-305	610	16.22
0955	7.14	10.19	5.28	0.77	1	-308	590	16.22
1000	7.14	10.21	5.31	0.70	2	-309	550	16.22
1005	7.13	10.19	5.36	0.69	2	-311	610	16.24
1010	7.13	10.17	5.29	0.65	2	-312	580	16.22
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006B-P3

Date: 12/10/2003 Sampling Personnel: M. Holquist, K. Jackson Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 71.30' Depth to Well Bottom: 75.93' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 2.9 Estimated Purge Volume (liters): N/A

Sample ID: NOT SAMPLED Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1215	7.14	9.84	25.5	5.78	1000	101	220	>74.8
pumped dry								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Purged to dryness and did not recharge

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006B-P4

Date: 12/8/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.80' Depth to Well Bottom: 17.45' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 4.1 Estimated Purge Volume (liters): 5

Sample ID: GW03-006B-P4 Sample Time: 1210 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1150	7.75	10.37	0.633	8.08	3	-11	320	11.30
1155	7.56	10.82	0.596	3.44	1	-2	380	11.65
1200	7.53	10.91	0.585	2.47	1	-4	400	11.90
1205	7.52	10.92	0.577	2.28	1	-3	410	12.05
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006A-P5

Date: 12/3/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 18.40' Depth to Well Bottom: 34.50' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.9 Estimated Purge Volume (liters): 15

Sample ID: GW03-006A-P5 Sample Time: 1550 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1510	7.35	10.11	6.31	5.3	8	-335	530	18.55
1515	7.13	10.54	5.86	0.62	7	-347	430	18.65
1520	7.06	10.48	5.72	0.26	4	-342	380	18.69
1525	7.06	10.47	5.66	0.12	2	-341	390	18.70
1530	7.06	10.47	5.51	0.01	1	-342	400	18.74
1535	7.06	10.45	5.49	0.02	1	-341	410	18.77
1545	7.06	10.48	5.49	0.00	1	-342	480	18.78
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P1

Date: 12/4/2003 Sampling Personnel: M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.51' Depth to Well Bottom: 32.80' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 15.6 Estimated Purge Volume (liters): 20

Sample ID: GW03-007A-P1 Sample Time: 1430 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1350	7.55	10.42	0.650	3.92	10.2	-79	540	7.55
1355	7.29	10.42	0.524	0.00	17.0	-90	535	7.55
1400	7.26	10.41	0.483	0.00	20.5	-93	540	7.55
1405	7.24	10.42	0.463	0.00	25.4	-94	535	7.55
1415	7.21	10.36	0.437	0.00	26.4	-95	440	7.52
1425	7.20	10.37	0.418	0.00	27.6	-95	520	7.52
1430	7.20	10.40	0.408	0.00	28.8	-95	530	7.52
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P2

Date: 12/10/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.90' Depth to Well Bottom: 60.42' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 27.30 Estimated Purge Volume (liters): 37

Sample ID: GW03-007A-P2 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0845	6.90	10.37	2.45	5.43	61	-12	610	15.95
0850	7.14	10.35	2.86	1.65	51	-241	390	15.95
0855	7.18	10.32	2.84	1.37	31	-268	360	15.95
0900	7.19	10.30	2.83	1.21	12	-281	340	15.95
0910	7.20	10.25	2.82	0.78	4	-293	340	15.95
0920	7.21	10.28	2.81	0.71	3	-296	310	15.95
0930	7.21	10.27	2.80	0.72	2	-300	370	15.95
0940	7.21	10.29	2.79	0.67	1	-302	360	15.95
0950	7.21	10.31	2.78	0.58	1	-303	360	15.95
1000	7.21	10.34	2.78	0.56	1	-296	370	15.95
1010	7.21	10.34	2.78	0.53	1	-295	360	15.95
1020	7.22	10.34	2.77	0.51	1	-294	360	15.95
1025	7.22	10.34	2.77	0.49	1	-294	370	15.95
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P3

Date: 12/10/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 30.74' Depth to Well Bottom: 83.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 32.5 Estimated Purge Volume (liters): 37

Sample ID: GW03-007A-P3 Sample Time: 0830 (12/11/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1305	6.77	10.27	99.9	1.63	8	-303	360	33.05
1310	6.68	10.15	99.9	0.98	23	-301	110	33.10
1315	6.65	10.41	99.9	0.67	5	-310	500	34.55
1320	6.70	10.43	99.9	0.54	3	-318	510	35.70
1325	6.73	10.47	99.9	0.48	3	-322	200	38.20
1335	6.75	10.49	99.9	0.40	3	-323	560	43.00
1345	6.73	11.00	99.9	0.41	3	-331	720	49.00
1355	6.73	11.04	99.9	0.32	3	-330	120	58.00
1405	6.77	11.75	99.9	0.31	3	-338	750	62.00
1425	6.82	12.69	99.9	0.29	5	-341	830	-
1425	well is dry							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: flow is intermittant
depth measurements stopped at 1405 due to high conductivity

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007B-P4

Date: 12/4/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.25' Depth to Well Bottom: 21.80' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.0 Estimated Purge Volume (liters): 16

Sample ID: GW03-007B-P4 Sample Time: 1630 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1550	7.40	11.44	1.70	9.34	246	-118	640	7.30
1555	7.21	11.54	1.69	1.84	58	-170	530	7.30
1600	7.18	11.55	1.68	1.20	6	-188	520	7.30
1605	7.17	11.55	1.67	0.90	2	-197	540	7.30
1610	7.18	11.58	1.66	0.67	1	-205	550	7.30
1615	7.17	11.59	1.66	0.53	1	-211	540	7.30
1620	7.17	11.55	1.68	0.45	6	-216	540	7.30
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007B-P5

Date: 12/10/2003 Sampling Personnel: M. Holquist, K. Jackson Company: URS Corporation

Purging/ Sampling Device: Tempest submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.65' Depth to Well Bottom: 42.31' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 17.1 Estimated Purge Volume (liters): 24

Sample ID: GW03-007B-P5 Sample Time: 0900 (12/11/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1405	6.98	9.31	2.45	6.74	30.3	32	140	16.25
1410	7.14	10.05	2.45	1.26	18.9	-186	120	17.25
1415	7.12	10.35	2.48	0.00	7.23	-232	180	18.90
1420	7.11	10.47	2.48	0.00	2.66	-238	270	20.72
1440	7.09	10.46	2.37	0.00	2.51	-241	290	27.90
1455	7.09	10.59	2.35	0.00	3.82	-247	290	29.20
1510	7.08	10.85	2.30	0.23	5.21	-223	385	35.03
1525	7.07	10.75	2.18	0.00	5.20	-197	600	Below Pump
1530	Pumped well dry							
Returned to sample on 12/11/03								
0850								39.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P1

Date: 12/3/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.89' Depth to Well Bottom: 31.60' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.6 Estimated Purge Volume (liters): 18

Sample ID: GW03-008A-P1 Sample Time: 0915 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0840	6.89	11.21	1.77	3.32	87	33	600	7.96
0845	7.14	11.32	1.33	0.79	1	-54	580	7.96
0850	7.15	11.32	1.22	0.33	1	-115	610	7.96
0855	7.17	11.34	1.13	0.07	1	-124	620	7.96
0900	7.17	11.33	1.09	0.00	1	-126	630	7.96
0905	7.16	11.32	1.06	0.00	0	-127	640	7.96
0910	7.16	11.36	1.03	0.00	1	-128	650	7.94
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P2

Date: 12/4/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.00' Depth to Well Bottom: 82.58' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 40.4 Estimated Purge Volume (liters): 44

Sample ID: GW03-008A-P2 Sample Time: 1055 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0840	6.60	10.65	5.35	7.09	176	-31	450	17.55
0845	7.10	10.53	6.46	2.07	103	-132	290	17.35
0850	7.18	10.49	6.42	1.47	29	-154	320	17.40
0855	7.22	10.48	6.21	1.21	19	-175	320	17.40
0900	7.24	10.49	6.19	1.05	15	-185	330	17.40
0910	7.26	10.49	6.06	0.79	8	-202	320	17.42
0920	7.26	10.48	6.05	0.72	6	-219	340	17.45
0930	7.26	10.45	6.08	0.30	3	-241	360	17.48
0940	7.26	10.36	6.07	0.16	3	-262	360	17.40
0950	7.29	10.30	6.12	0.05	2	-275	360	17.45
1000	7.21	10.31	6.09	0.00	2	-284	370	17.45
1010	7.19	10.29	6.10	0.00	2	-288	330	17.45
1020	7.17	10.29	6.09	0.00	1	-291	320	17.41
1030	7.16	10.32	6.09	0.00	2	-303	330	17.46
1040	7.15	10.31	6.09	0.00	1	-307	360	17.46
1050	7.15	10.34	6.11	0.00	1	-308	360	17.45
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P3

Date: 12/3/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.63' Depth to Well Bottom: 100.82' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 55.64 Estimated Purge Volume (liters): 68

Sample ID: GW03-008A-P3 Sample Time: 1310 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1005	6.58	9.91	43.8	5.53	23	-52	440	10.68
1010	6.57	10.06	66.0	0.44	4	-61	420	10.69
1015	6.61	10.17	66.3	0.10	12	-75	420	10.69
1020	6.66	10.30	64.8	0.00	8	-89	350	10.69
1025	6.72	10.27	68.3	0.00	7	-103	280	10.70
1035	6.82	10.22	68.7	0.00	5	-133	220	10.70
1045	6.82	10.27	71.3	0.00	4	-165	380	10.70
1055	6.83	10.30	70.3	0.00	3	-186	380	10.70
1105	6.81	10.34	70.0	0.00	4	-206	370	10.70
1125	6.78	10.24	69.5	0.00	5	-264	420	10.71
1145	6.79	10.13	69.7	0.00	4	-320	400	10.71
1205	6.79	10.02	69.2	0.00	4	-330	380	10.71
1225	6.79	9.96	70.9	0.00	3	-332	420	10.71
1245	6.79	10.00	74.6	0.00	3	-336	420	10.71
1305	6.78	10.04	73.6	0.00	2	-340	430	10.71
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P4

Date: 12/3/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.60' Depth to Well Bottom: 24.69' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.9 Estimated Purge Volume (liters): 23

Sample ID: GW03-008B-P4 Sample Time: 0930 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0845	6.96	10.56	754	4.60	4.19	-140	500	8.60
0850	7.16	10.87	753	0.00	5.91	-158	510	8.60
0855	7.20	10.93	756	0.00	1.53	-171	510	8.60
0900	7.19	10.95	766	0.00	2.16	-173	510	8.59
0910	7.17	10.93	768	0.00	1.03	-166	505	8.59
0920	7.17	10.99	771	0.00	0.95	-157	510	8.57
0925	7.16	11.00	775	0.00	0.95	-152	520	8.57
0930	7.16	11.02	774	0.00	0.80	-150	540	8.57
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P5

Date: 12/3/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.22' Depth to Well Bottom: 40.80' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 20.1 Estimated Purge Volume (liters): 32

Sample ID: GW03-008B-P5 Sample Time: 1115 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1015	7.19	8.80	1.88	230	102	-108	560	8.25
1020	7.16	10.40	1.18	0.00	15.9	-130	590	8.25
1025	7.15	10.35	1.12	0.00	2.0	-136	570	8.25
1035	7.15	10.42	1.11	0.00	2.0	-137	600	8.25
1045	7.14	10.42	1.09	0.00	1.91	-138	600	8.25
1100	7.15	10.51	1.07	0.00	1.20	-137	600	8.25
1105	7.17	10.53	1.07	0.00	1.02	-137	600	8.25
1110	7.15	10.46	1.05	0.00	1.08	-137	600	8.25
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P6

Date: 12/4/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: mini-Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 59.92' Depth to Well Bottom: 62.83' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.8 Estimated Purge Volume (liters): 6

Sample ID: DID NOT SAMPLE Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1145	7.76	10.24	3.12	9.33	153	-77	710	water
1200	7.23	10.58	4.38	5.21	713	-90	470	below
1205	7.13	11.02	4.47	1.94	599	-121	1800	pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Lowered pump to bottom of well
Purged to dryness and did not recharge

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P1

Date: 12/5/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.65' Depth to Well Bottom: 52.83' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 21.7 Estimated Purge Volume (liters): 28

Sample ID: GW03-009A-P1 Sample Time: 0940 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0835	7.19	10.02	0.742	8.02	30	-92	550	17.68
0840	7.13	10.70	0.738	2.38	3	-140	510	17.67
0845	7.20	10.72	0.730	1.80	6	-163	510	17.66
0850	7.22	10.63	0.723	1.61	1	-180	490	17.69
0855	7.22	10.66	0.725	1.53	1	-187	320	17.68
0905	7.22	10.72	0.723	1.32	1	-198	450	17.70
0915	7.22	10.62	0.724	1.17	1	-204	460	17.69
0925	7.22	10.70	0.710	0.93	1	-211	470	17.68
0935	7.22	10.66	0.711	0.71	0	-216	470	17.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P2

Date: 12/5/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Tempest 2-stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 25.70' Depth to Well Bottom: 87.80' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 38.3 Estimated Purge Volume (liters): 41

Sample ID: GW03-009A-P2 Sample Time: 1205 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1043	7.37	10.36	2.52	8.93	71	-213	960	25.70
1048	7.11	10.45	2.52	4.61	15	-277	470	25.70
1053	7.11	10.65	2.48	3.25	5	-285	540	25.70
1058	7.09	10.60	2.47	2.71	3	-290	530	25.70
1108	7.07	10.88	2.47	1.84	2	-297	840	25.70
1118	7.08	10.94	2.47	0.73	2	-306	730	25.70
1128	7.08	10.75	2.47	0.44	1	-310	620	25.70
1138	7.08	10.50	2.48	0.28	0	-311	510	25.70
1148	7.08	10.08	2.49	0.19	0	-309	310	25.70
1158	7.08	10.15	2.49	0.10	0	-310	270	25.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P3

Date: 12/16/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 79.10' Depth to Well Bottom: 117.19' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 23.5 Estimated Purge Volume (liters): 25

Sample ID: GW03-009A-P3 Sample Time: 1010 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0910	6.84	10.00	61.0	2.14	16	-279	310	79.90
0915	6.83	10.26	61.5	1.39	14	-298	220	80.90
0920	6.78	10.91	61.2	1.10	14	-310	620	81.90
0925	6.76	11.57	62.4	1.12	18	-316	540	82.80
0930	6.75	11.77	62.8	1.00	21	-321	550	86.00
0940	6.75	11.85	63.0	0.79	22	-327	540	91.40
0950	6.77	11.95	63.9	0.76	20	-333	600	93.20
1000	6.79	12.31	64.2	0.70	16	-337	580	95.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009B-P5

Date: 12/5/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.82' Depth to Well Bottom: 43.00' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 16.8 Estimated Purge Volume (liters): 18

Sample ID: GW03-009B-P5 Sample Time: 1230 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1020	7.28	8.82	3.31	6.20	392	93	285	17.02
1025	7.04	8.83	3.33	0.00	106	95	215	17.87
1030	7.04	7.98	3.37	0.00	31.1	98	145	18.85
1035	7.03	7.71	3.37	0.00	25.0	100	135	19.20
1045	7.04	7.44	3.37	0.00	14.6	100	140	20.18
1100	7.04	7.62	3.37	0.00	8.97	99	140	21.25
1115	7.05	7.75	3.37	0.00	5.65	97	145	22.20
1130	7.05	8.03	3.37	0.00	4.52	96	145	23.08
1145	7.05	8.22	3.35	0.00	5.56	95	145	23.70
1200	7.04	8.04	3.37	0.00	2.78	94	150	24.70
1215	7.04	7.88	3.39	0.00	2.08	93	145	25.09
1220	7.04	7.99	3.38	0.00	1.93	93	145	25.40
1225	7.04	8.10	3.38	0.00	2.08	93	145	25.50
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009B-P6

Date: 12/8/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.32' Depth to Well Bottom: 70.90' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 34.3 Estimated Purge Volume (liters): 36

Sample ID: GW03-009B-P6 Sample Time: 1040 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0850	6.67	10.49	3.77	0.24	63.2	113	460	16.59
0855	6.98	10.44	3.76	0.00	4.73	114	305	17.38
0900	7.04	10.51	3.74	0.00	4.73	114	300	17.32
0910	7.05	10.97	3.74	0.00	1.24	111	305	17.31
0925	7.01	10.75	3.74	0.00	0.68	102	305	17.30
0940	7.02	10.88	3.73	0.00	1.04	100	370	17.90
0955	7.02	10.99	3.62	0.00	1.47	97	320	17.63
1010	7.01	11.07	3.52	0.00	0.98	95	310	17.60
1025	7.02	11.04	3.53	0.00	0.76	94	310	17.60
1030	7.02	11.08	3.54	0.00	0.79	94	320	17.60
1035	7.01	10.96	3.61	0.00	4.61	93	300	17.63
1040	7.02	11.01	3.57	0.00	2.28	92	305	17.65
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P1

Date: 12/4/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 35.01' Depth to Well Bottom: 74.49' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 24.7 Estimated Purge Volume (liters): 25

Sample ID: GW03-010A-P1 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0830	7.01	9.41	3.48	2.45	0.79	-278	580	35.85
0835	6.97	8.65	3.25	0.00	31.9	-311	150	36.83
0845	6.96	8.55	3.13	0.00	18.4	-323	110	37.00
0855	6.96	8.24	3.14	0.00	8.78	-327	560	37.18
0905	6.96	9.93	3.09	0.00	4.32	-338	400	38.44
0915	6.97	9.32	3.15	0.00	3.13	-337	150	39.40
0925	6.97	10.20	3.09	0.00	4.48	-344	295	40.90
0935	6.98	10.10	3.08	0.00	5.65	-346	290	41.38
0945	6.98	9.83	3.08	0.00	6.93	-343	200	41.09
0955	6.98	9.62	3.09	0.00	6.14	-342	160	40.84
1000	6.97	9.86	3.09	0.00	5.05	-343	210	40.79
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P2

Date: 12/3/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 19.38' Depth to Well Bottom: 104.20' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 52.8 Estimated Purge Volume (liters): 53

Sample ID: GW03-010A-P2 Sample Time: 1625 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1525	7.50	10.0	3.42	3.16	9.99	-80	1000	19.38
1530	7.04	9.9	3.55	0.00	3.43	-250	940	19.38
1540	7.04	10.0	3.55	0.00	0.72	-286	920	19.38
1550	7.04	10.0	3.54	0.00	0.40	-295	920	19.38
1600	7.04	10.0	3.54	0.00	0.30	-299	920	19.38
1610	7.04	9.9	3.56	0.00	0.25	-300	920	19.38
1615	7.04	9.9	3.57	0.00	0.32	-302	440	19.38
1620	7.03	9.9	3.56	0.00	0.50	-301	430	19.38
1625	7.03	10.0	3.54	0.00	0.46	-303	1000	19.38
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P3

Date: 12/18/2003 Sampling Personnel: T. Urban / D. Tobin Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 61.36' Depth to Well Bottom: 129.90' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 42.3 Estimated Purge Volume (liters): 43

Sample ID: GW03-010A-P3 Sample Time: 840 (12/19/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	6.61	8.11	42.1	5.13	40.0	113	360	61.36
0900	Pump Stops							
0945	6.93	7.93	41.8	3.27	23.4	-10	160	66.15
0950	Pump Stops							
1100	7.01	6.91	48.4	2.11	2.34	-21	220	68.38
1105	Pump Stops							
1320	6.45	8.55	54.7	14.96	206	-198	990	65.20
1325	6.67	9.00	54.8	0.00	114	-263	900	76.60
1330	6.76	9.09	52.4	0.00	41.4	-281	670	81.88
1335	6.73	8.99	51.7	0.00	26.8	-282	270	86.13
1340	6.63	9.67	51.8	0.00	23.6	-289	570	91.76
1350	6.33	9.12	49.6	0.00	22.0	-274	210	99.00
1400	6.29	9.47	48.8	0.00	21.8	-276	200	105.50
1410	6.55	10.65	45.1	0.00	11.5	-226	580	122.09
1415	6.59	10.73	46.2	0.19	129	-238	560	Below Pump
1420	6.54	10.92	49.6	0.00	-	-269	-	Below Pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Well purged to dryness and sampled the following day

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P4

Date: 12/2/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.99' Depth to Well Bottom: 48.22' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 18.7 Estimated Purge Volume (liters): 19

Sample ID: GW03-010B-P4 Sample Time: 1545 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1500	7.46	10.0	1.36	5.08	103	-30	430	18.02
1505	7.15	10.0	1.44	0.00	94.9	-64	425	18.02
1510	7.13	10.2	1.42	0.00	61.6	-67	425	18.01
1525	7.12	10.2	1.47	0.00	9.81	-75	400	18.02
1530	7.12	10.0	1.45	0.00	6.48	-80	400	18.02
1535	7.12	10.0	1.43	0.00	5.01	-82	400	18.02
1540	7.12	9.9	1.44	0.00	5.08	-82	395	18.02
1545	7.12	10.0	1.41	0.00	4.39	-83	395	18.02
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P5

Date: 12/3/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 20.50' Depth to Well Bottom: 62.04' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 25.6 Estimated Purge Volume (liters): 26

Sample ID: GW03-010B-P5 Sample Time: 0955 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0833	6.93	9.8	2.07	3.09	246	-189	360	20.78
0838	7.12	9.82	2.19	0.00	62.3	-250	350	20.81
0843	7.14	9.88	2.17	0.00	95.2	-268	340	20.85
0853	7.15	9.84	2.15	0.00	11.8	-294	325	20.92
0903	7.15	9.8	2.15	0.00	3.68	-303	330	20.95
0913	7.15	9.7	2.09	0.00	2.55	-310	315	20.98
0923	7.15	9.52	2.15	0.00	2.59	-314	315	20.99
0933	7.15	9.4	2.14	0.00	2.59	-318	330	21.06
0943	7.14	9.5	2.05	0.00	1.31	-321	315	21.00
0948	7.14	9.4	2.06	0.00	2.08	-322	320	21.02
0953	7.14	9.38	2.07	0.00	1.20	-324	315	21.02
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P6

Date: 12/3/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 27.92' Depth to Well Bottom: 88.22' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 37.7 Estimated Purge Volume (liters): 50

Sample ID: GW03-010B-P6 Sample Time: 1300 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1208	7.17	10.03	3.38	0.88	-	-203	1080	29.40
1215	7.09	10.20	3.52	0.00	12.5	-276	1040	31.92
1225	7.11	10.33	3.52	0.00	172	-295	1000	32.65
1235	7.11	10.3	3.53	0.00	42.3	-302	960	missed
1245	7.11	10.3	3.52	0.00	3.52	-304	900	32.71
1250	7.11	10.2	3.52	0.00	2.56	-306	940	32.68
1255	7.12	10.3	3.52	0.00	1.40	-307	980	32.71
1300	7.12	10.3	3.52	0.00	1.89	-308	1000	32.68
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Pump shuts off at less than 1 liter/minute

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010C-P7

Date: 12/2/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.93' Depth to Well Bottom: 26.61' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.36 Estimated Purge Volume (liters): 17

Sample ID: GW03-010C-P7 Sample Time: 1215 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1132	6.48	10.3	3.44	3.15	28.5	138	425	17.95
1138	6.88	10.6	3.34	0.22	12.5	97	420	17.95
1143	6.91	10.6	3.22	0.00	6.52	77	415	17.95
1149	6.92	10.7	3.12	0.00	5.35	60	410	17.95
1154	6.94	10.6	3.09	0.00	3.66	52	405	17.95
1200	6.97	10.7	3.00	0.00	3.63	43	400	17.95
1205	7.00	10.6	2.97	0.00	3.40	38	400	17.95
1210	6.96	10.7	2.95	0.00	2.03	34	400	17.95
1215	7.01	10.7	2.94	0.00	2.09	32	395	17.95
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P1

Date: 12/2/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 33.19' Depth to Well Bottom: 73.10' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 24.62 Estimated Purge Volume (liters): 32

Sample ID: GW03-011A-P1 Sample Time: 0930 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0820	7.24	9.61	2.96	0.00	2.52	-255	580	33.19
0830	7.25	10.13	2.99	0.00	>99.9	-316	750	33.33
0835	7.24	9.97	2.98	0.00	~20	-327	490	33.32
0840	7.23	10.01	2.99	0.00	7.41	-331	430	33.31
0850	7.23	8.90	3.02	0.00	7.64	-333	450	33.24
0900	7.22	10.08	2.98	0.00	2.11	-334	310	33.30
0910	7.23	10.12	2.95	0.00	1.24	-335	210	33.28
0920	7.21	10.18	2.95	0.00	0.89	-342	490	33.32
0930	7.22	10.14	2.94	0.00	0.81	-342	415	33.31
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Turbidity meter set from 0 - 9.99 NTU range
H2S odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P2

Date: 12/2/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 27.52' Depth to Well Bottom: 107.80' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 49.53 Estimated Purge Volume (liters): 50

Sample ID: GW03-011A-P2 Sample Time: 1240 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1121	7.37	9.70	17.9	2.14	< 10	-334	620	27.52
1130	7.42	10.15	8.57	0.00	~20	-345	490	27.62
1140	7.18	10.30	12.6	0.00	4.09	-388	520	27.60
1150	7.15	10.19	13.4	0.00	1.78	-409	110	27.64
1200	7.15	10.64	13.5	0.00	1.23	-416	720	27.68
1210	7.12	10.40	13.9	0.00	1.11	-424	520	27.66
1220	7.10	10.71	13.8	0.00	0.56	-425	980	27.70
1230	7.12	10.68	13.9	0.00	0.72	-423	780	27.72
1240	7.13	10.78	13.5	0.00	2.25	-421	880	27.73
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Turbidity meter set from 0 - 9.99 NTU range
H2S odor and water has a gray/black color

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P3

Date: 12/3/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 33.16' Depth to Well Bottom: 135.11' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 62.9 Estimated Purge Volume (liters): 68

Sample ID: GW03-011A-P3 Sample Time: 1540 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1352	7.09	10.38	55.8	0.51	18.7	-293	820	33.16
1400	6.9	10.40	59.9	0.00	29.4	-308	80	40.00
1410	6.91	10.71	57.8	0.00	8.50	-330	460	43.20
1420	6.85	10.57	58.8	0.00	20.4	-353	980	35.80
1430	6.85	10.55	58.4	0.00	15.4	-358	660	33.05
1440	6.86	10.61	58.3	0.00	12.6	-359	700	32.41
1450	6.84	10.53	58.1	0.00	15.0	-360	690	32.28
1500	6.82	10.50	57.3	0.00	11.7	-362	690	32.13
1510	6.73	10.51	56.8	0.00	7.32	-363	630	32.19
1520	6.72	10.36	56.5	0.00	4.22	-364	440	32.08
1530	6.72	10.42	55.3	0.00	7.72	-364	640	32.19
1540	6.72	10.36	56.5	0.00	3.28	-365	640	32.25
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011B-P4

Date: 12/2/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.59' Depth to Well Bottom: 49.62' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 23.53 Estimated Purge Volume (liters): 26

Sample ID: GW03-011B-P4 Sample Time: 1515 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1415	7.85	9.04	1.13	0.00	>100	-155	420	11.59
1425	7.65	9.88	1.11	0.00	~20	-156	440	11.59
1435	7.59	9.78	1.09	0.00	5.92	-157	450	11.62
1445	7.55	9.87	1.10	0.00	3.79	-157	440	11.61
1455	7.52	9.64	1.07	0.00	2.37	-155	440	11.61
1505	7.50	9.98	1.06	0.00	1.80	-158	440	11.61
1515	7.49	9.77	1.04	0.00	1.56	-161	430	11.61
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Turbidity meter set from 0 - 9.99 NTU range

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011B-P5

Date: 12/2/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 86.39' Depth to Well Bottom: 89.50' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.92 Estimated Purge Volume (liters): N/A

Sample ID: Not Sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Not Enough Water to Pump								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011C-P7

Date: 12/2/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.56' Depth to Well Bottom: 33.70' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 13.66 Estimated Purge Volume (liters): 20

Sample ID: GW03-011C-P7 Sample Time: 1645 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1555	9.84	10.24	0.739	1.06	< 20	-181	470	11.56
1605	9.69	10.94	0.809	0.00	< 20	-205	420	11.61
1615	7.52	10.72	0.892	0.00	16.3	-147	395	11.60
1620	7.47	10.72	0.921	0.00	7.30	-150	390	11.60
1625	7.46	10.72	0.925	0.00	6.72	-151	395	11.60
1630	7.45	10.74	0.929	0.00	3.21	-151	400	11.60
1640	7.44	10.59	0.938	0.00	1.91	-152	400	11.61
1645	7.43	10.63	0.938	0.00	1.54	-153	395	11.60
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Turbidity meter set from 0 - 9.99 NTU range

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012A-P1

Date: 12/15/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: DRY Depth to Well Bottom: 58.91 Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): N/A Estimated Purge Volume (liters): N/A

Sample ID: NOT SAMPLED Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1340	WELL IS DRY							
RETURN ON 12/16/03								
0940	WELL IS DRY							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012A-P2

Date: 12/16/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 73.22' Depth to Well Bottom: 111.51' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 23.6 Estimated Purge Volume (liters): 52

Sample ID: GW03-012A-P2 Sample Time: 1500 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1130	7.09	10.54	3.40	1.89	15.1	123	300	73.35
1135	7.13	10.55	3.03	0.47	21.4	116	180	73.30
1140	7.09	10.75	3.04	0.00	12.5	108	810	73.52
1145	7.02	11.45	3.21	0.19	6.35	110	215	73.02
1200	7.02	11.41	3.23	0.74	3.21	124	405	73.05
1215	7.02	12.03	3.20	0.77	2.34	101	230	73.11
1225	pump stopped working							73.01
pump resumed working								
1355	7.10	10.41	3.17	2.96	230	140	950	73.10
1400	7.03	10.66	3.25	1.09	633	115	500	73.09
1415	7.02	10.96	3.26	0.93	193	103	500	73.25
1430	7.02	11.09	3.26	1.39	18.1	104	500	73.30
1445	7.02	11.22	3.26	1.50	3.52	104	450	73.34
1450	7.02	11.19	3.26	1.50	2.74	104	450	73.34
1455	7.02	11.21	3.26	1.49	2.44	104	400	73.35
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P4

Date: 12/16/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Disposable bailer Tubing Type: NA Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 39.80' Depth to Well Bottom: 41.05' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 0.77 Estimated Purge Volume (liters): 0.7

Sample ID: GW03-012B-P4 Sample Time: 1130 (12/17/03) QA/QC: None

Sample Parameters: TCL VOCs; TOC; Alkalinity (Carb+Bicarb); Total Hardness

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1400	Well purged dry; approximately 700 ml of water removed							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P5

Date: 12/15/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Mini-Monsoon Submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 60.30' Depth to Well Bottom: 66.97' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 4.12 Estimated Purge Volume (liters): 6

Sample ID: GW03-012B-P5 Sample Time: 0845 on 12/16/03 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1105	7.01	6.58	4.22	12.56	9	149	160	*
1110	7.34	8.98	4.07	10.90	50	124	210	*
1115	7.14	10.50	3.90	2.99	569	-183	230	*
1120	7.14	11.08	3.87	1.88	68	-183	260	*
1125	7.16	10.73	3.89	1.65	15	-177	180	*
1130	7.17	10.40	3.89	1.55	11	-173	150	*
1135	7.17	10.09	3.92	1.48	8	-160	100	*
1140	Well pumped dry							
* = Water level below top of pump, measurements could not be taken.								
0840 on 12/16/03								60.19
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P6

Date: 12/16/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 74.80' Depth to Well Bottom: 87.99' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.13 Estimated Purge Volume (liters): 11

Sample ID: GW03-012B-P6 Sample Time: 1205 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1125	8.03	10.10	4.30	11.37	0	-75	310	75.10
1130	7.52	10.75	4.42	6.60	51	-183	530	74.90
1135	7.39	12.66	3.32	1.92	7	-253	470	75.00
1140	7.34	12.85	3.25	1.49	4	-270	420	74.90
1145	7.30	13.07	3.20	1.23	1	-278	420	74.90
1150	7.28	13.09	3.19	1.16	1	-281	440	74.90
1155	7.27	11.97	3.18	1.16	1	-276	150	74.60
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012C-P7

Date: 12/15/2003 Sampling Personnel: K. Jackson, M. Holquist Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 25.60' Depth to Well Bottom: 26.84' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 0.8 Estimated Purge Volume (liters): 5

Sample ID: GW03-012C-P7 Sample Time: 1230 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1200	7.26	9.81	2.46	6.60	27.0	115	155	25.55
1205	7.16	9.83	2.42	5.65	11.9	103	170	25.57
1210	7.16	10.12	2.42	5.36	5.58	102	190	25.60
1215	7.16	10.19	2.42	5.01	3.52	102	190	25.60
1220	7.16	10.26	2.42	4.76	4.09	100	195	25.60
1225	7.17	10.35	2.43	4.52	2.92	99	200	25.61
1230	7.17	10.45	2.44	4.56	1.58	99	200	25.65
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P1

Date: 12/4/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 42.02' Depth to Well Bottom: 58.36' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 10.1 Estimated Purge Volume (liters): 15

Sample ID: GW03-013A-P1 Sample Time: 0930 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0808	6.85	8.68	2.76	10.03	1.01	56	150	42.02
0820	7.20	9.72	2.72	0.00	24.2	22	140	44.90
0830	7.19	9.66	2.72	0.00	10.0	18	170	44.99
0840	7.19	9.17	2.72	0.00	5.74	12	130	44.59
0850	7.19	8.56	2.74	0.00	3.44	9	175	44.08
0900	7.19	9.61	2.73	0.00	1.36	6	460	44.54
0910	7.18	11.03	2.72	0.00	1.43	3	215	46.85
0920	7.19	10.29	2.73	0.00	1.30	8	100	46.34
0930	7.18	11.24	2.72	0.00	1.19	3	235	47.33
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P2

Date: 12/4/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 49.19' Depth to Well Bottom: 110.65' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 37.9 Estimated Purge Volume (liters): 50

Sample ID: GW03-013A-P2 Sample Time: 1205 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1045	7.89	10.13	0.712	2.07	68.7	79	540	49.19
1055	7.61	10.78	1.20	0.00	15.7	-245	510	48.86
1105	7.53	11.12	1.30	0.00	5.96	-261	700	48.76
1115	7.49	11.10	1.40	0.00	2.50	-247	700	48.71
1125	7.48	11.13	1.41	0.00	2.21	-237	570	48.69
1135	7.47	11.21	1.41	0.00	1.46	-235	600	48.68
1145	7.46	11.27	1.40	0.00	1.21	-231	660	48.66
1155	7.46	11.24	1.40	0.00	1.06	-229	650	48.64
1205	7.46	11.28	1.40	0.00	1.18	-229	780	48.63
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P3

Date: 12/8/2003 Sampling Personnel: A. Brayman / D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 51.38' Depth to Well Bottom: 133.03' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 50.38 Estimated Purge Volume (liters): 60

Sample ID: GW03-013A-P3 Sample Time: 0950 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0828	6.55	6.81	2.63	4.16	77.8	29	450	51.38
0840	7.83	10.06	3.83	0.00	20.0	-271	950	50.59
0850	7.87	10.14	3.14	0.00	21.1	-279	980	50.98
0900	7.88	9.89	3.06	0.00	17.6	-281	720	50.98
0910	7.89	10.04	2.85	0.00	12.1	-285	800	50.82
0920	7.88	10.04	2.83	0.00	8.96	-287	800	50.69
0930	7.90	10.01	2.69	0.00	8.92	-288	780	50.69
0940	7.91	10.02	2.54	0.00	7.32	-288	760	50.71
0950	7.90	10.10	2.55	0.00	6.77	-288	770	50.69
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Water is dark in color

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P4

Date: 12/4/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 42.94' Depth to Well Bottom: 45.29' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.45 Estimated Purge Volume (liters): 19

Sample ID: GW03-013B-P4 Sample Time: 1610 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1541	7.55	9.95	2.73	3.11	370	-104	450	42.94
1545	7.24	10.74	2.60	0.00	102	-102	630	43.23
1550	7.22	10.85	2.62	0.00	12.8	-102	670	43.29
1555	7.21	10.88	2.63	0.00	11.4	-99	650	43.32
1600	7.21	10.85	2.63	0.00	4.34	-97	640	43.31
1605	7.21	10.82	2.64	0.00	2.29	-94	680	43.33
1610	7.21	10.81	2.64	0.00	1.92	-92	680	43.34
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P5

Date: 12/4/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 49.16' Depth to Well Bottom: 72.37' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.3 Estimated Purge Volume (liters): 15

Sample ID: GW03-013B-P5 Sample Time: 1455 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1355	7.60	9.79	2.59	10.06	0.66	39	150	49.16
1405	7.22	11.08	2.30	0.32	15.3	-236	325	Below Pump
1415	7.20	11.65	2.31	1.96	8.86	-246	270	Below Pump
1425	7.17	11.84	2.40	4.12	5.81	-244	280	Below Pump
1435	7.17	11.81	2.44	3.33	3.05	-248	230	Below Pump
1445	7.17	11.08	2.47	0.82	3.31	-262	120	51.34
1455	7.15	12.00	2.47	0.00	2.59	-285	265	Below Pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P6

Date: 12/5/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 82.22' Depth to Well Bottom: 84.13' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.18 Estimated Purge Volume (liters): N/A

Sample ID: Not Sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Dry Well								
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013C-P7

Date: 12/5/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Disposable bailer Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 35.17' Depth to Well Bottom: 37.43' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.39 Estimated Purge Volume (liters): 5

Sample ID: GW03-013C-P7 Sample Time: 1045 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0940	7.08	10.80	1.52	4.28	12.0	85	-	35.17
0948	7.40	9.80	1.56	5.77	273	54	-	-
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P1

Date: 12/9/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible 3-Stage Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 31.20' Depth to Well Bottom: 72.51' (assumed from previous event) Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 25.5 Estimated Purge Volume (liters): 32

Sample ID: GW03-014A-P1 Sample Time: 1435 on 12/15/03 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1150	6.52	11.1	6.93	1.16	98.8	-314	215	34.75
1155	6.55	10.6	7.02	0.00	98.7	-335	275	35.89
1200	6.55	10.9	6.98	0.00	34.8	-342	370	37.42
1210	6.54	11.3	6.80	0.00	8.93	-345	300	40.61
1220	6.54	12.6	6.92	0.00	1.94	-361	445	45.98
1230	6.55	12.2	6.98	0.00	2.02	-359	250	48.96
1240	6.57	12.4	6.87	0.00	1.83	-360	495	53.19
1250	6.60	12.68	6.75	0.00	4.50	-360	305	58.14
1300	6.61	13.0	6.68	0.00	6.19	-355	300	61.92
1310	6.64	13.7	6.63	0.00	5.99	-359	700	65.61
1320	Well purged to dryness							
0835 on 12/10/03	Not enough water to sample							68.51
0906 on 12/11/03	Not enough water to sample							67.21
0838 on 12/15/03								59.44
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Purge water had strong hydrogen sulfide odor and a gray tint.
Had to keep increasing rate on flow controller as water level dropped.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P2

Date: 12/9/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Disposable HDPE Bailer Tubing Type: NA Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 117.60' Depth to Well Bottom: 121.98' (assumed from previous event) Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 2.7 Estimated Purge Volume (liters): 6

Sample ID: GW03-014A-P2 Sample Time: 0910 on 12/18/03 QA/QC: None

Sample Parameters: TCL VOCs; TOC; Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury
Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli
Heterotrophic Plate Count

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1335	6.73	10.00	40.3	5.22	17.1	-191		
1401	6.79	8.9	43.0	5.89	36.0	-143	(1 gallon purged)	
1430	6.72	8.7	43.2	8.91	58.2	-89	(2 gallons purged)	
* Check valve on bailer keeps getting clogged with sand pack sand. Could not get sufficient water to surface to fill sample bottles. Well also went dry.								
0837 on 12/10/03		Not enough water to sample.						120.42
0908 on 12/11/03		Not enough water to sample.						120.32
0836 on 12/15/03		Not enough water to sample.						120.08
0810 on 12/17/03		Not enough water to sample.						120.10
0910 on 12/18/03		Partial sample collected by M. Holquist/K. Jackson.						119.96
		(VOCs, TOC, Metals, Alkalinity, Total Hardness, Total Coliform/E. coli, Het. Plate Count)						
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P3

Date: 12/17/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Mini-Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 37.70' Depth to Well Bottom: 148.65' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 68.46 Estimated Purge Volume (liters): 46

Sample ID: GW03-014A-P3 Sample Time: 1540 (12/18/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0835	6.17	10.73	88.4	5.23	10	-116	600	39.39
0840	6.49	11.18	>99.9	1.56	52	-120	1360	40.20
0845	6.47	11.16	>99.9	0.85	35	-264	1000	40.20
0850	6.45	11.13	>99.9	0.64	17	-297	820	40.20
0905	6.41	11.08	>99.9	0.50	3	-307	560	40.20
0920	6.38	11.20	>99.9	0.53	1	-307	490	40.40
0935	6.40	11.08	>99.9	0.37	1	-315	560	40.70
0945	Pump not working properly. Pulled from well, motor working but will not pump water in well.							
New pump installed on 12/18/03								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks: Sulfur odor present

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P3

Date: 12/18/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: approx. depth of 141.50

Measuring Point: Below Top of Riser Initial Depth to Water: 36.70' Depth to Well Bottom: 148.65' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 69.0 Estimated Purge Volume (liters): 83

Sample ID: GW03-014A-P3 Sample Time: 1540 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1320	6.05	7.24	>99.9	3.20	209	-88	600	39.00
1325	6.20	8.88	>99.9	2.94	120	-169	450	39.00
1335	6.26	9.26	>99.9	1.74	105	-187	460	39.00
1345	6.35	10.43	>99.9	0.36	65	-303	670	41.00
1405	6.35	10.38	>99.9	0.30	22	-310	600	41.04
1430	6.36	10.23	>99.9	0.26	9	-311	810	41.40
1450	6.38	10.21	>99.9	0.21	122	-310	720	41.80
1510	6.38	10.46	>99.9	0.19	27	-310	740	42.00
1530	6.38	10.40	>99.9	0.15	19	-311	710	42.20
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Sulfur odor present
New pump installed; only reaches approx. 3' into screen.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P4

Date: 12/5/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 27.96' Depth to Well Bottom: 51.32' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.4 Estimated Purge Volume (liters): 16

Sample ID: GW03-014B-P4 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0805	8.20	8.86	1.80	5.20	333	-139.0	145	27.98
0815	7.11	9.3	1.85	0.00	45.4	-120.0	145	27.99
0830	7.16	9.5	1.84	0.00	29.0	-139.0	145	27.97
0845	7.15	9.35	1.84	0.00	12.2	-147.0	145	27.97
0900	7.15	9.40	1.84	0.00	11.2	-150.0	145	27.93
0915	7.16	9.59	1.84	0.00	10.5	-152.0	145	27.91
0930	7.16	9.65	1.83	0.00	8.8	-153.0	140	27.89
0945	7.16	9.65	1.83	0.00	4.6	-154.0	145	27.87
1000	7.16	9.8	1.83	0.00	11.1	-155.0	145	27.83
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P5

Date: 12/8/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 30.19' Depth to Well Bottom: 86.25' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 34.2 Estimated Purge Volume (liters): 44

Sample ID: GW03-014B-P6 Sample Time: 1200 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1033	7.08	10.30	2.15	3.18	235	-210	370	29.54
1038	7.03	10.66	2.25	0.00	42.5	-234	370	29.45
1043	7.02	10.97	2.24	0.00	15.8	-245	510	29.43
1048	7.01	11.03	2.25	0.00	6.07	-251	560	29.38
1058	7.01	11.21	2.24	0.00	4.18	-261	570	29.34
1108	7.01	11.20	2.24	0.00	4.16	-264	570	29.30
1118	7.01	11.19	2.24	0.00	4.41	-269	570	29.30
1128	7.01	11.07	2.24	0.00	4.86	-271	500	29.21
1138	7.01	11.16	2.23	0.00	5.39	-271	460	29.11
1148	7.01	11.18	2.23	0.00	4.16	-272	470	29.05
1200	7.02	11.22	2.23	0.00	3.65	-273	470	29.02
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P6

Date: 12/8/2003 Sampling Personnel: S. Moeller Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 29.31' Depth to Well Bottom: 100.40' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 43.9 Estimated Purge Volume (liters): 50

Sample ID: GW03-014B-P6 Sample Time: 1625 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1500	8.07	11.37	0.611	4.69	1.94	21	650	29.55
1505	7.73	11.37	0.578	0.00	69.7	-42	540	29.72
1510	7.66	11.22	0.580	0.00	39.6	-72	440	29.98
1515	7.67	11.52	0.574	0.00	24.7	-82	580	30.22
1520	7.67	11.44	0.572	0.00	20.6	-77	600	30.34
1530	7.65	11.54	0.569	0.00	12.6	-67	590	30.42
1535	7.63	11.56	0.568	0.00	9.94	-62	580	30.52
1545	7.65	11.49	0.566	0.00	12.6	-60	520	30.58
1555	7.66	11.45	0.565	0.00	14.8	-55	440	30.68
1605	7.65	11.54	0.564	0.00	8.52	-52	830	30.88
1615	7.68	11.62	0.563	0.00	8.52	-56	680	31.11
1625	7.68	11.56	0.563	0.00	5.50	-55	640	31.48
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014C-P7

Date: 12/4/2003 Sampling Personnel: S. Moeller / M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 28.91' Depth to Well Bottom: 36.43' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 4.6 Estimated Purge Volume (liters): 6

Sample ID: GW03-014C-P7 Sample Time: 1300 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1215	7.49	12.0	2.68	7.26	18.5	-92	150	28.89
1223	7.19	11.9	2.72	0.19	12.9	-84	150	28.85
1228	7.17	11.9	2.69	0.00	10.3	-83	140	28.83
1233	7.16	11.9	2.70	0.00	9.64	-83	150	28.83
1238	7.16	11.9	2.71	0.00	10.2	-82	145	28.82
1243	7.15	11.9	2.67	0.00	11.0	-80	145	28.82
1248	7.15	11.9	2.68	0.00	12.0	-77	150	28.82
1253	7.15	12.0	2.64	0.00	10.5	-75	150	28.84
1300	7.15	11.8	2.59	0.00	11.6	-73	150	28.85
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P1

Date: 12/8/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.11' Depth to Well Bottom: 66.37' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 24.8 Estimated Purge Volume (liters): 30

Sample ID: GW03-015A-P1 Sample Time: 1305 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1135	7.66	9.99	0.906	5.07	>1000	-66	270	26.11
1145	7.70	10.93	0.634	0.00	85.5	-72	340	25.98
1155	7.73	10.78	0.534	0.00	42.2	-80	345	25.94
1205	7.73	10.94	0.519	0.00	4.56	-85	335	25.98
1215	7.74	10.95	0.504	0.00	1.84	-95	340	25.95
1225	7.74	10.95	0.472	0.00	1.52	-101	340	25.98
1235	7.75	11.04	0.466	0.00	1.91	-104	340	26.04
1245	7.75	10.97	0.466	0.00	1.04	-105	340	26.09
1255	7.76	10.97	0.456	0.00	1.05	-107	340	26.14
1305	7.76	10.93	0.448	0.00	1.80	-110	330	26.24
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P2

Date: 12/10/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 28.95' Depth to Well Bottom: 119.79' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 56.05 Estimated Purge Volume (liters): 78

Sample ID: GW03-015A-P2 Sample Time: 1600 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1312	6.83	11.38	52.8	4.20	7.03	-306	760	28.95
1320	6.64	11.03	74.7	0.00	116	-327	150	33.79
1340	6.64	10.78	69.8	0.00	22.5	-329	120	36.47
1400	6.64	10.55	74.5	0.00	5.48	-330	830	38.05
1420	6.68	11.00	71.5	0.00	7.36	-335	170	44.12
1440	6.67	11.49	73.4	0.00	5.26	-338	410	55.75
1500	6.78	11.48	76.1	0.00	3.57	-342	620	58.35
1520	6.77	11.38	75.6	0.00	6.94	-338	120	62.88
1540	6.74	11.90	77.7	0.00	3.76	-344	750	68.54
1600	6.77	12.32	72.3	0.00	5.60	-333	410	81.80
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P3

Date: 12/9/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Bailer Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 141.89' Depth to Well Bottom: 148.85' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 4.3 Estimated Purge Volume (liters): 6

Sample ID: GW03-015A-P3 Sample Time: 0900 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0825	6.35	9.21	81.8	1.68	41.1	102	-	141.89
0840	6.71	7.85	79.3	3.09	~500	101	-	-
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P4

Date: 12/8/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 25.61' Depth to Well Bottom: 76.15' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 31.2 Estimated Purge Volume (liters): 18

Sample ID: GW03-015B-P4 Sample Time: 1630 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1421	7.42	8.34	4.49	1.66	3.62	-235	175	25.61
1430	7.36	9.83	2.13	0.00	2.31	-249	170	27.44
1450	7.31	9.97	1.99	0.35	0.71	-253	150	29.03
1510	7.30	9.95	1.96	0.00	0.59	-253	140	29.85
1530	7.30	9.61	1.95	0.00	2.07	-251	125	30.32
1550	7.30	9.40	1.93	0.00	0.70	-251	125	30.35
1610	7.30	9.21	1.96	0.00	0.55	-250	120	30.29
1630	7.30	9.51	1.95	0.00	0.54	-250	115	30.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P5

Date: 12/10/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.03' Depth to Well Bottom: 88.37' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 38.5 Estimated Purge Volume (liters): 39

Sample ID: GW03-015B-P5 Sample Time: 1100 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0831	7.02	10.48	4.47	6.54	308	-250	250	26.03
0840	7.17	10.79	3.71	0.00	11.1	-292	250	26.00
0900	7.17	10.92	3.66	0.00	0.72	-300	260	25.99
0920	7.15	10.99	3.62	0.00	0.44	-301	260	26.00
0940	7.15	11.04	3.60	0.00	0.38	-301	260	26.09
1000	7.15	11.14	3.59	0.00	0.17	-301	260	26.13
1020	7.17	11.19	3.56	0.00	0.24	-301	260	25.78
1040	7.19	11.26	3.55	0.00	0.20	-300	250	26.41
1100	7.20	11.26	3.57	0.00	0.36	-298	220	27.29
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P6

Date: 12/9/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.37' Depth to Well Bottom: 104.49' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 48.2 Estimated Purge Volume (liters): 48

Sample ID: GW03-015B-P6 Sample Time: 1310 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1000	7.92	9.45	2.10	6.42	6.00	-175	235	26.37
1010	7.73	10.51	3.30	1.55	0.90	-234	215	26.57
1030	7.78	10.64	2.46	0.00	0.64	-205	220	26.57
1050	7.80	10.74	1.62	0.88	0.95	-174	225	26.61
1110	7.82	10.84	1.16	1.95	0.71	-151	240	26.40
1130	7.82	10.99	0.97	2.57	0.91	-139	250	25.94
1150	7.82	11.11	0.713	2.98	0.39	-130	260	25.57
1210	7.82	11.20	0.653	3.12	1.07	-123	260	25.62
1230	7.81	11.20	0.638	3.39	0.87	-119	270	25.35
1250	7.81	11.23	0.631	3.43	0.83	-115	245	25.75
1310	7.81	10.13	0.677	3.51	0.96	-107	230	26.50
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015C-P7

Date: 12/9/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 27.15' Depth to Well Bottom: 56.58' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 18.2 Estimated Purge Volume (liters): 22

Sample ID: GW03-015C-P7 Sample Time: 1530 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1418	7.88	10.08	0.795	5.24	746	-124	320	27.15
1425	7.63	10.43	0.785	0.00	38.3	-152	340	27.39
1435	7.64	10.41	0.779	0.00	6.28	-163	320	27.52
1440	7.65	10.44	0.768	0.00	2.67	-167	320	27.55
1445	7.66	10.46	0.761	0.00	1.60	-169	320	27.59
1450	7.66	10.42	0.756	0.00	1.37	-171	320	27.61
1455	7.66	10.43	0.750	0.00	0.85	-172	320	27.68
1500	7.66	10.40	0.748	0.00	0.77	-173	310	27.74
1505	7.67	10.39	0.747	0.00	0.68	-174	300	27.92
1510	7.66	10.38	0.751	0.00	0.50	-174	305	28.01
1515	7.66	10.34	0.753	0.00	0.49	-174	300	28.09
1520	7.66	10.35	0.757	0.00	0.72	-173	305	28.12
1525	7.66	10.39	0.760	0.00	0.50	-173	300	28.10
1530	7.66	10.41	0.759	0.00	0.55	-173	300	28.08
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P1

Date: 12/12/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.68' Depth to Well Bottom: 68.83' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 32.79 Estimated Purge Volume (liters): 38

Sample ID: GW03-016A-P1 Sample Time: 0955 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0845	8.49	9.50	1.96	0.00	107	-68	370	15.68
0855	8.03	9.68	2.16	0.00	5.19	-136	385	15.84
0905	7.97	10.67	1.86	0.00	3.34	-139	590	15.88
0915	7.97	10.85	0.722	2.36	1.50	-77	590	15.84
0925	7.96	10.82	0.545	3.24	3.36	-50	580	15.80
0935	7.97	11.03	0.515	3.55	0.83	-36	600	15.78
0940	7.97	11.01	0.489	4.08	0.91	-31	590	15.80
0945	7.97	11.01	0.472	4.06	0.66	-24	600	15.80
0950	7.96	11.13	0.456	3.91	0.81	-18	600	15.78
0955	7.96	11.11	0.456	4.07	0.65	-16	590	15.69
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P2

Date: 12/16/2003 Sampling Personnel: T. Urban, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.81' Depth to Well Bottom: 131.93' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 71.65 Estimated Purge Volume (liters): 73

Sample ID: GW03-016A-P2 Sample Time: 1140 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0840	7.13	9.04	0.446	7.92	9.51	-53	400	15.81
0900	7.29	10.63	1.76	0.00	0.91	-203	410	15.76
0920	7.26	10.90	1.81	0.00	0.83	-213	410	15.78
0940	7.17	11.00	1.83	0.00	0.94	-217	400	15.79
1000	7.19	11.14	1.85	0.00	0.55	-219	400	15.76
1020	7.32	11.56	1.86	0.00	0.86	-221	410	15.74
1040	7.28	11.64	1.86	0.00	0.78	-222	410	15.72
1100	7.25	11.33	1.87	0.00	0.76	-224	400	15.74
1120	7.25	11.73	1.86	0.00	0.64	-225	400	15.72
1140	7.26	11.74	1.88	0.00	0.62	-223	410	15.73
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P3

Date: 12/11/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.58' Depth to Well Bottom: 161.67' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 90.1 Estimated Purge Volume (liters): 49

Sample ID: GW03-016A-P3 Sample Time: 1500 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0925	7.48	8.87	21.1	1.20	> 1000	-335	200	15.58
1000	7.25	9.42	17.0	0.00	61.6	-363	165	23.20
1030	7.23	9.20	15.1	0.00	14.4	-359	150	25.55
1100	7.22	9.23	15.2	0.00	4.27	-358	145	26.21
1130	7.21	9.19	15.5	0.00	4.60	-358	140	26.45
1200	7.21	9.17	15.6	0.00	3.18	-358	140	26.54
1230	7.22	8.99	15.8	0.00	6.98	-357	140	26.51
1300	7.23	9.22	16.2	0.00	16.5	-357	130	26.44
1330	7.23	8.89	16.3	0.00	39.0	-355	140	26.42
1400	7.23	8.76	16.5	0.00	69.8	-354	140	26.44
1430	7.23	8.81	16.4	0.00	59.7	-354	140	26.45
1500	7.23	8.72	16.5	0.00	44.2	-353	140	26.45
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P4

Date: 12/12/2003 Sampling Personnel: A. Brayman, D. Tobin Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.38' Depth to Well Bottom: 47.98' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 19.5 Estimated Purge Volume (liters): 35

Sample ID: GW03-016B-P4 Sample Time: 1210 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1100	7.70	7.93	0.982	7.35	170	-225	630	16.38
1110	7.56	8.81	1.27	0.00	2.92	-254	600	16.53
1120	7.81	8.81	0.960	0.00	1.39	-232	630	16.53
1130	7.92	8.78	0.658	0.66	1.15	-215	620	16.53
1140	7.98	8.53	0.607	0.69	1.41	-208	400	16.48
1150	7.99	8.57	0.574	1.33	1.09	-201	400	16.49
1200	8.00	8.49	0.545	0.62	1.00	-197	380	16.52
1210	8.01	8.55	0.525	0.85	1.00	-195	390	16.52
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P5

Date: 12/17/2003 Sampling Personnel: T. Urban, D. Tobin Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.64' Depth to Well Bottom: 76.75' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 37.1 Estimated Purge Volume (liters): 32

Sample ID: GW03-016B-P5 Sample Time: 1050 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0830	6.47	8.90	1.38	6.95	49.5	-238	400	16.64
0850	6.88	9.51	1.35	0.00	12.1	-274	240	27.44
0910	6.92	9.05	1.35	0.00	3.65	-274	195	28.00
0930	6.96	8.94	1.33	0.00	3.59	-271	190	27.98
0950	7.00	8.94	1.31	0.00	2.58	-261	190	27.92
1010	7.04	8.93	1.29	0.00	2.73	-266	190	27.90
1030	7.07	8.99	1.26	0.00	2.54	-263	190	28.19
1050	7.09	8.92	1.24	0.00	2.51	-261	190	28.15
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P6

Date: 12/15/2003 Sampling Personnel: T. Urban, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.07' Depth to Well Bottom: 103.32' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 54.45 Estimated Purge Volume (liters): 60

Sample ID: GW03-016B-P6 Sample Time: 1540 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1230	7.75	10.15	0.558	5.34	13.1	-119	530	15.07
1240	7.99	9.73	0.953	0.00	7.61	-178	520	15.25
1300	7.91	9.26	0.939	0.00	2.80	-175	410	15.58
1320	7.91	9.05	0.800	1.85	2.55	-139	340	16.04
1340	7.92	9.04	0.750	2.82	2.43	-131	340	16.08
1400	7.95	9.01	0.637	4.72	2.61	-124	340	16.04
1420	7.97	9.01	0.611	5.34	2.68	-121	340	15.90
1440	7.98	8.89	0.586	5.56	2.47	-119	340	15.83
1500	7.96	8.85	0.575	5.90	2.06	-119	330	15.91
1520	7.98	8.81	0.569	5.67	1.91	-118	320	15.82
1540	7.98	8.82	0.558	5.88	1.99	-116	320	15.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016C-P7

Date: 12/15/2003 Sampling Personnel: T. Urban, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.35' Depth to Well Bottom: 31.81' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 15.7 Estimated Purge Volume (liters): 28

Sample ID: GW03-016C-P7 Sample Time: 0945 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0850	6.36	7.46	0.721	8.83	39.4	101	700	16.35
0855	7.16	7.59	0.404	9.55	24.3	55	700	16.32
0900	7.60	7.66	0.361	9.99	17.2	23	680	16.31
0905	7.85	7.71	0.332	9.89	11.0	15	700	16.30
0910	7.92	7.71	0.319	9.89	7.02	23	700	16.31
0915	7.94	7.72	0.309	9.74	3.41	32	700	16.29
0920	7.95	7.70	0.306	10.09	2.27	39	690	16.28
0925	7.97	7.73	0.302	10.09	1.43	47	700	16.27
0930	7.97	7.73	0.300	10.00	1.63	49	700	16.22
0935	7.98	7.68	0.301	10.92	1.21	53	710	16.20
0940	7.99	7.68	0.298	10.20	1.70	55	700	16.21
0945	7.98	7.69	0.296	10.12	1.51	56	700	16.21
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{yl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016C-P8

Date: 12/17/2003 Sampling Personnel: T. Urban, D. Tobin Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.32' Depth to Well Bottom: 88.61' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 45.2 Estimated Purge Volume (liters): 53

Sample ID: GW03-016C-P8 Sample Time: 1430 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1245	6.73	9.04	0.362	8.07	28.4	-51	500	15.32
1300	7.91	10.42	0.459	0.00	2.14	-119	520	14.95
1315	8.17	10.40	0.446	0.00	3.32	-130	500	15.05
1330	8.31	10.40	0.444	0.00	2.97	-133	500	15.06
1345	8.40	10.35	0.443	0.00	0.91	-135	500	15.91
1400	8.58	10.27	0.445	0.00	1.96	-136	490	16.60
1415	8.62	10.20	0.445	0.00	2.04	-134	500	16.91
1430	8.61	10.18	0.444	0.00	2.25	-136	500	17.22
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P1

Date: 12/16/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.26' Depth to Well Bottom: 121.95' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 67.7 Estimated Purge Volume (liters): ~92 Total (12/16 and 12/17/03)

Sample ID: GW03-017A-P1 Sample Time: 1015 (12/17/03) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL $^-$/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0853	7.05	12.9	5.21	0.83	8.26	-249	470	15.93
0900	7.12	12.6	4.43	0.00	9.82	-286	295	18.47
0915	7.12	11.7	4.45	0.00	7.87	-307	450	19.54
0930	7.13	12.6	4.43	0.00	11.7	-316	450	22.95
0945	7.14	11.9	4.44	0.00	6.24	-322	540	26.12
1000	7.15	12.5	4.50	0.00	3.57	-325	660	29.82
1015	7.15	13.4	4.43	0.00	3.08	-333	275	33.86
1030	7.16	13.3	4.43	0.00	2.98	-334	110	38.10
1045	7.15	13.4	4.43	0.00	3.44	-332	450	41.27
1100	7.14	13.6	4.36	0.00	3.07	-348	680	47.56
1115	7.16	13.5	4.28	0.00	2.70	-335	1000	58.31
1130	At approx. 59' DTW pump stopped, then pumped water sporadically							
1145	7.18	13.0	4.16	0.00	23.6	-333	0	58.81
*Pumping stopped to allow well to recover. Approx. 14 gallons purged total.								
1420	7.15	12.9	4.35	1.25	60.1	-307	730	28.11
1430	7.08	12.3	4.58	0.00	5.49	-341	0	31.25
New pump installed on 12/17/03.								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Had to keep increasing flow rate on controller; flow would start high and decrease as drawdown increased. Purge water was gray with a sulfur odor. Pump pulled at 1430, pump ran at surface but would not pump water from well. Removed check valve, pump still would not work. Removed pump at 1530, needs to be replaced.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P1

Date: 12/17/2003 Sampling Personnel: S. Moeller, A. Brayman Company: URS Corporation

Purging/ Sampling Device: Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.22' Depth to Well Bottom: 121.95' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 68.9 Estimated Purge Volume (liters): ~92 Total (12/16 and 12/17/03)

Sample ID: GW03-017A-P1 Sample Time: 1015 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0900	7.01	12.2	7.13	0.42	4.28	-304	1350	10.22
0915	7.08	12.1	4.60	0.00	4.11	-348	470	26.35
0925	7.09	11.9	4.53	0.00	4.00	-348	280	30.20
0935	7.10	11.4	4.52	0.00	2.49	-348	460	34.28
0945	7.10	11.8	4.52	0.00	1.85	-351	355	36.32
0955	7.10	12.3	4.51	0.00	1.97	-355	435	41.02
1005	7.11	11.8	4.55	0.00	1.79	-351	435	43.78
1015	7.11	12.0	4.49	0.00	1.54	-354	440	46.23
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Nine (9) gallons purged today.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P2

Date: 12/12/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.68' Depth to Well Bottom: 139.38' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 78.8 Estimated Purge Volume (liters): 80

Sample ID: GW03-017A-P2 Sample Time: 1200 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0900	12.40	12.47	5.29	4.84	34.1	-111	440	11.72
0905	12.35	12.56	4.36	2.55	42.1	-230	440	11.70
0920	11.11	12.5	3.05	0.00	12.0	-293	440	11.62
0935	10.65	12.4	3.10	0.00	6.64	-296	445	11.61
0950	9.90	12.5	3.17	0.00	7.32	-307	445	11.60
1005	9.66	10.87	3.28	0.00	15.1	-305	450	11.61
1020	9.46	12.44	3.28	0.00	10.6	-315	450	11.70
1035	9.15	12.38	3.34	0.00	6.64	-321	450	11.70
1050	9.02	12.31	3.36	0.00	8.11	-325	450	11.71
1105	8.95	12.42	3.39	0.00	11.2	-330	450	11.71
1120	8.85	12.32	3.43	0.00	14.0	-335	450	11.69
1135	8.85	12.29	3.43	0.00	13.4	-340	450	11.71
1150	8.72	12.4	3.47	0.00	6.84	-347	445	11.73
1155	8.70	12.3	3.49	0.00	7.63	-347	445	11.73
1200	8.67	12.3	3.50	0.00	8.11	-349	440	11.73
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P3

Date: 12/16/2003, 12/17/2003, 12/18/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/Sampling Device: HDPE Tubing with Foot Valve (hand-pumping) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 130.18' (12/16/03) 129.94' (12/17/03) Depth to Well Bottom: 169.92' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 24.5 Estimated Purge Volume (liters): 39

Sample ID: GW03-017A-P3 Sample Time: 0900 (12/18/03) QA/QC: None

Sample Parameters: TCL VOCs.

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	GALLONS PURGED	DEPTH TO WATER (btor)
12/17/2003								
1200	11.10	9.04	23.4	6.33	324	-175	0	129.94
1255	Allowed well to recover (stopped yielding)							
1333	12.96	9.27	18.3	8.52	500	-204	4	152.00
1345	Allowed well to recover (had to meet lab courier)						6	
1500	Well did not recover, may install 5-stage submersible pump tomorrow							158.00
12/18/2003								
0830	Poor recovery overnight, called Colin Wasteneys and discussed situation.							156.40
	Decided to start filling sample bottles with no further purging.							
	Tried to sample with a 2" bailer, but obstruction in well riser above water level prevented sampling.							
	Will not be able to install pump either, due to the obstruction.							
	Used tubing and foot valve to get a minimal amount of water to the surface (2 x 40 ml vials).							
	Sample was highly aerated, probably not a representative VOC sample.							
1100	Stopped working on well.							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Recovered only 2 x 40ml vials.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P4

Date: 12/10/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.91' Depth to Well Bottom: 59.49' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 30.6 Estimated Purge Volume (liters): 74

Sample ID: GW03-017A-P4 Sample Time: 1250 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0948	11.92	14.4	2.06	2.58	93.7	-81	440	9.94
0953	11.95	14.3	1.79	0.20	109	-151	440	9.95
0958	11.21	14.0	1.17	0.26	41.1	-130	425	9.95
1005	10.90	13.9	0.680	2.08	32.0	-88	430	9.93
1015	10.26	13.8	0.466	4.82	25.2	-41	410	9.81
1025	9.88	13.6	0.395	6.16	27.0	-23	430	9.80
1035	9.55	13.6	0.355	6.82	26.2	-5	420	9.87
1045	9.90	13.6	0.350	6.87	36.3	-10	425	9.96
1055	9.72	13.6	0.327	7.02	35.8	-4	425	10.17
1105	9.80	13.6	0.330	7.36	28.7	4	415	10.39
1115	9.77	13.6	0.318	7.40	30.2	6	400	10.52
1125	9.90	13.6	0.338	7.60	30.3	1	425	10.60
1135	9.61	13.5	0.292	7.42	24.8	12	400	10.60
1145	9.50	13.5	0.282	7.58	22.8	12	390	10.52
1155	9.28	13.5	0.268	7.72	19.1	16	400	10.36
1205	9.40	13.5	0.272	7.81	18.7	19	395	10.26
1215	9.36	13.5	0.267	7.78	16.3	21	400	10.24
1225	9.28	13.6	0.265	7.92	17.7	25	395	10.21
1235	9.33	13.5	0.268	7.78	13.8	27	390	10.24
1240	9.31	13.5	0.267	7.71	12.4	28	395	10.25
1245	9.29	13.5	0.266	7.65	13.5	29	405	10.30
1250	9.29	13.5	0.260	7.58	10.4	30	400	10.33
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Strong sulfury odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017B-P5

Date: 12/11/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.09' Depth to Well Bottom: 83.15' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 43.8 Estimated Purge Volume (liters): 45

Sample ID: GW03-017B-P5 Sample Time: 1630 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^oC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1500	7.50	12.5	0.781	6.39	452.0	-56.0	530	12.18
1505	6.73	12.5	0.941	0.00	161.0	-192.0	520	12.20
1515	6.88	12.2	0.695	1.91	27.9	-193.0	525	12.23
1530	6.97	12.0	0.505	2.80	6.6	-164.0	500	12.35
1545	7.00	12.0	0.461	3.14	4.3	-149.0	480	12.49
1600	7.02	12.0	0.433	3.47	3.1	-144.0	480	12.49
1615	7.03	11.9	0.410	3.61	2.5	-140.0	485	12.24
1620	7.03	11.8	0.405	3.57	4.0	-139.0	500	12.08
1625	7.04	11.9	0.398	3.60	2.3	-138.0	490	11.94
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017B-P6

Date: 12/11/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.64' Depth to Well Bottom: 105.61' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 58.0 Estimated Purge Volume (liters): 58

Sample ID: GW03-017B-P6 Sample Time: 1200 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0952	6.70	13.37	0.388	7.22	489	109	540	11.82
0957	7.15	13.32	0.330	7.28	102	87	445	11.89
1007	7.20	13.1	0.324	6.91	166	80	440	12.06
1020	7.15	12.9	0.326	5.85	132	75	445	12.16
1030	7.14	12.8	0.324	5.77	74.9	73	445	11.86
1045	7.12	12.7	0.326	5.18	20.6	75	450	11.60
1100	7.12	12.9	0.323	5.19	17.3	72	445	11.45
1115	7.12	12.8	0.324	5.02	17.9	68	445	11.49
1130	7.12	12.6	0.334	4.21	12.7	56	440	11.60
1145	7.12	12.6	0.332	4.07	13.1	44	440	11.61
1150	7.12	12.7	0.332	4.08	8.96	41	440	11.61
1155	7.12	12.7	0.330	4.06	7.66	37	440	11.61
1200	7.12	12.6	0.337	3.99	6.87	35	440	11.62
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P7

Date: 12/10/2003 Sampling Personnel: S. Moeller, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.54' Depth to Well Bottom: 34.30' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.7 Estimated Purge Volume (liters): 42

Sample ID: GW03-017C-P7 Sample Time: 1612 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (ºC)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1507	10.45	14.0	0.365	3.94	>1000	-23	700	10.70
1512	8.49	13.4	0.371	0.00	>1000	-3	740	10.70
1520	8.43	13.2	0.363	0.50	223	-1	690	10.63
1530	8.29	13.0	0.350	1.39	50.3	12	680	10.70
1535	8.29	13.0	0.346	1.74	44.5	18	680	10.75
1540	8.28	12.9	0.339	1.94	27.4	23	680	10.72
1545	8.29	12.9	0.338	2.14	29.1	27	660	10.72
1550	8.25	12.9	0.333	2.58	28.5	30	700	10.70
1555	8.22	12.8	0.329	2.84	28.6	33	690	10.68
1600	8.20	12.8	0.324	2.84	30.2	36	700	10.65
1603	8.18	12.8	0.324	3.29	29.8	37	700	10.65
1606	8.20	12.8	0.326	3.50	26.6	37	670	10.62
1609	8.18	12.7	0.323	3.48	22.2	40	680	10.62
1612	8.20	12.7	0.319	3.53	21.0	41	680	10.62
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P8

Date: 12/15/2003 Sampling Personnel: S. Moeller Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.63' Depth to Well Bottom: 52.58' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 25.9 Estimated Purge Volume (liters): 30

Sample ID: GW03-017C-P8 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0940	6.32	13.4	0.417	1.69	>1000	83	630	10.90
0945	7.37	14.1	0.380	0.00	604	51	620	10.90
0955	7.55	14.2	0.348	0.00	194	-10	590	10.84
1005	7.57	14.3	0.343	0.00	34.7	-8	600	10.80
1015	7.59	14.3	0.341	0.00	26.9	-2	590	10.75
1025	7.60	14.3	0.340	0.00	19.3	3	600	10.73
1030	7.60	14.3	0.342	0.00	23.2	5	610	10.72
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P9

Date: 12/17/2003 Sampling Personnel: J. Grady, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.40' Depth to Well Bottom: 95.60' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 51.95 Estimated Purge Volume (liters): 78

Sample ID: GW03-017C-P9 Sample Time: 0825 on 12/18/03 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1105	9.64	12.53	1.57	8.40	22	-245	320	14.10
1110	8.13	13.12	2.20	2.13	>1000	-320	620	17.23
1115	7.93	13.32	2.16	1.40	164	-327	910	18.80
1120	8.15	12.47	1.99	1.25	25	-313	220	22.55
1125	8.80	12.72	1.72	1.13	18	-311	330	24.50
1135	8.13	13.08	1.83	1.01	15	-289	700	26.40
1145	9.26	12.18	1.65	1.43	9	-286	300	32.80
1155	9.06	12.94	1.55	1.57	6	-274	700	38.40
1205	8.18	12.98	1.40	1.96	4	-252	520	45.20
1215	8.30	12.80	1.20	2.25	3	-244	330	50.00
1225	8.27	13.27	1.12	2.20	3	-247	720	56.20
1245	9.01	13.52	0.729	2.68	6	-258	340	74.00
1305	8.61	14.20	0.818	1.69	6	-265	840	84.70
1320	13.49	8.10	1.40	0.00	127	-325	420	**
1325	14.56	8.36	1.37	0.00	80	-345	540	**
1330	Well pumped dry.							
** Water levels could not be obtained as water was below top of pump.								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Flow would not remain consistant, had to keep adjusting flow.
Purge water was gray/black.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-001A-P1

Date: 2/26/2004 Sampling Personnel: David Cofield, Randy Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 3.23 Depth to Well Bottom: 28.71 Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 15.7 Estimated Purge Volume (liters):

Sample ID: GW03-001A-P1 Sample Time: 1250 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (S/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1208	7.68	8.88	2.53	4.46	4.33	-78	680	3.23
1215	7.34	8.86	2.59	1.61	2.70	-92	540	3.39
1220	7.22	8.98	2.89	0.00	0.04	-123	550	3.33
1225	7.27	9.15	3.29	0.00	1.17	-153	550	3.66
1230	7.28	9.16	3.29	0.00	1.03	-152	545	3.63
1235	7.29	9.17	3.28	0.00	1.02	-153	550	3.62
1240	7.28	9.18	3.28	0.00	0.32	-170	550	3.65
1245	7.29	9.20	3.29	0.00	0.35	-198	540	3.69
1250	7.28	9.23	3.29	0.00	0.36	-210	550	3.69
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-001A-P2

Date: 2/27/2004 Sampling Personnel: David Cofield, Melissa Nemeth Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 3.10 Depth to Well Bottom: 52.35' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 30.4 Estimated Purge Volume (liters): N/A

Sample ID: GW03-001A-P2 Sample Time: 1315 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1010	6.30	7.45	19.2	2.97	0.65	81	650	6.75
1015	6.68	8.15	18.8	0.71	0.71	67	400	8.75
1020	6.75	8.15	18.8	0.86	0.66	65	350	11.82
1030	6.77	8.43	18.7	1.03	1.43	64	300	16.45
1040	6.81	8.47	18.4	1.04	2.91	60	280	20.62
1050	6.80	8.48	18.4	1.00	3.34	59	300	24.85
1100	6.82	8.43	18.9	1.03	2.87	57	210	27.89
1110	6.80	8.29	19.4	0.94	2.92	56	95	29.90
1122	6.85	8.04	20.1	1.06	2.92	57	100	31.05
1245	Return and install Monsoon submersible pump.							
1250	6.93	10.55	20.8	13.35	9.25	-4	NA	30.31
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-002A-P1

Date: 2/26/2004 Sampling Personnel: David Cofield, Randy Pekarski Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.06' Depth to Well Bottom: 30.10' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.8 Estimated Purge Volume (liters): 24

Sample ID: GW03-002A-P1 Sample Time: 1025 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0920	7.10	8.36	1.41	0.35	11.30	-24	600	7.81
0925	7.35	8.19	1.35	0.00	3.06	-32	390	8.15
0930	7.24	8.15	1.34	0.00	1.69	-32	380	8.09
0935	7.24	8.56	1.35	0.00	0.52	-28	400	8.20
0945	7.28	8.64	1.36	0.00	0.50	-31	410	8.27
0955	7.27	8.63	1.36	0.00	0.51	-30	405	8.29
1005	7.28	8.65	1.35	0.00	0.51	-30	400	8.28
1015	7.27	8.64	1.36	0.00	0.82	-34	400	8.18
1025	7.26	8.82	1.36	0.00	0.49	-74	410	8.22
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-002A-P2

Date: _____ Sampling Personnel: _____ Company: URS Corporation

Purging/ Sampling Device: Disposable bailer Tubing Type: N/A Pump/Tubing Inlet Location: N/A

Measuring Point: Below Top of Riser Initial Depth to Water: _____ Depth to Well Bottom: 48.45' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): _____ Estimated Purge Volume (liters): _____

Sample ID: Not Sampled Sample Time: _____ QA/QC: None

Sample Parameters: _____

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-003A-P1

Date: 3/1/2004 Sampling Personnel: David Cofield, Steve Tivnan Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.02' Depth to Well Bottom: 30.10' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.20 Estimated Purge Volume (liters): 15

Sample ID: GW03-003A-P1 Sample Time: 1615 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (S/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1530	7.18	10.25	2.94	1.25	45.60	9	380	7.02
1535	7.11	10.01	2.99	0.00	12.20	7	380	7.12
1540	7.12	9.89	2.98	0.00	0.88	6	340	7.18
1545	7.11	9.91	2.99	0.00	0.41	6	380	7.22
1550	7.12	9.89	2.98	0.00	0.40	5	380	7.21
1600	7.11	9.91	2.98	0.00	0.36	6	380	7.21
1610	7.11	9.89	2.99	0.00	0.37	5	380	7.21
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-003A-P2

Date: 3/2/2004 Sampling Personnel: David Cofield, Melissa Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.44 Depth to Well Bottom: 50.33' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 26.5 Estimated Purge Volume (liters): 35

Sample ID: GW03-003A-P2 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	7.30	8.79	2.79	0.11	2.29	-27	400	7.24
0905	7.26	9.35	2.81	0.00	2.15	-29	370	7.82
0910	7.18	9.49	2.92	0.00	1.51	-49	370	7.92
0920	7.10	9.73	3.21	0.00	1.34	-74	370	7.80
0930	7.08	9.81	3.25	0.00	1.30	-84	370	7.80
0940	7.08	9.85	3.24	0.00	1.32	-88	360	7.80
0950	7.07	10.00	3.24	0.00	1.20	-95	370	7.80
1000	7.08	10.00	3.23	0.00	1.21	-94	370	7.79
1010	7.08	10.01	3.25	0.00	1.20	-104	370	7.80
1020	7.07	9.98	3.26	0.00	0.39	-150	380	7.80
1030	7.07	9.99	3.25	0.00	1.01	-151	370	7.80
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-004A-P1

Date: 3/1/2004 Sampling Personnel: David Cofield, Steve Tivnan Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 3.90 Depth to Well Bottom: 17.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.3 Estimated Purge Volume (liters): 8.8

Sample ID: GW03-004A-P1 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL PCBs; Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	6.87	7.00	2.67	1.76	>1000	164	400	4.80
0900	7.22	6.99	2.63	0.56	148	147	140	6.81
0905	7.28	6.64	2.64	0.50	27.7	140	140	8.08
0910	7.29	6.35	2.63	0.59	14.4	140	140	9.52
0915	7.30	6.21	2.64	0.40	12.5	132	160	11.27
0925	7.32	6.22	2.64	0.37	7.92	129	120	12.86
0935	7.32	6.49	2.64	0.38	8.21	130	80	13.90
0945	7.51	6.77	2.63	0.42	8.61	121	80	14.55
0955	7.29	7.55	2.62	0.02	8.65	84	80	15.01
1005	7.27	7.61	2.61	0.00	1.45	68	80	15.35
1015	7.28	7.60	2.61	0.00	2.04	60	80	15.62
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-004A-P1

Date: 3/8/2004 Sampling Personnel: Tim Burmeier, Randy Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.15' Depth to Well Bottom: 17.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 7.6 Estimated Purge Volume (liters): 14.8

Sample ID: Not Sampled Sample Time: NA QA/QC: NA

Sample Parameters:

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1355	7.44	6.94	2.93	8.77	44	-4	810	7.20
1400	7.22	5.95	2.92	6.09	9.6	27	680	11.00
1405	7.21	6.24	2.92	6.09	6.2	25	670	14.70
1410	7.16	7.19	2.90	5.79	18.1	27	630	15.75
1415	7.09	7.64	2.85	3.17	28.6	-78	570	16.76
1419	Purged dry after removing 4 gallons.							17.40
Return on 3/9								
0900	Not enough water to sample.							16.22
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-004A-P2

Date: 3/1/2004 Sampling Personnel: David Cofield, Steve Tivnan Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.82' Depth to Well Bottom: 31.18' Well Diameter: 2-Inch Screen Length: 8.7'

Casing Type: PVC Volume in 1 Well Casing (liters): 13.2 Estimated Purge Volume (liters): 14

Sample ID: GW03-004A-P2 Sample Time: 1245 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1115	7.64	9.66	2.66	1.66	30.8	-17	100	9.82
1120	7.42	9.22	2.29	0.00	10.5	-3	180	12.64
1125	7.4	9.11	2.28	0.00	10.6	3	170	14.50
1130	7.42	9.01	2.26	0.00	10.0	3	160	16.12
1140	7.42	9.06	2.26	0.00	9.32	10	160	16.81
1150	7.42	9.01	2.26	0.00	9.30	12	160	18.01
1200	7.42	9.02	2.25	0.00	9.12	13	160	18.86
1210	7.42	9.02	2.25	0.00	9.65	17	160	19.84
1220	7.42	9.03	2.23	0.00	8.39	17	150	21.23
1240	7.43	9.33	2.23	0.00	8.16	11	150	22.32
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-005A-P1

Date: 3/10/2004 Sampling Personnel: J. Doerr, G. Kisluk, S. McCabe Company: URS Corporation

Purging/ Sampling Device: None, positive flow Tubing Type: NA Pump/Tubing Inlet Location: NA

Measuring Point: Below Top of Riser Initial Depth to Water: 0.32' above casing Depth to Well Bottom: 26.11' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 16.3 Estimated Purge Volume (liters): 20

Sample ID: GW03-005A-P1 Sample Time: 1130 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1035	7.16	5.90	5.25	1.33	3.00	-293	820	0.00
1040	7.08	6.90	5.39	0.00	0.00	-338	740	0.00
1045	7.07	7.91	5.49	0.00	0.00	-346	810	0.00
1050	7.06	8.15	5.47	0.00	0.00	-359	800	0.00
1100	7.05	5.48	5.48	0.00	0.00	-352	800	0.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-005A-P2

Date: 3/10/2004 Sampling Personnel: J. Doerr, S. McCabe, G Kisluk Company: URS Corporation

Purging/ Sampling Device: HDPE Bailer Tubing Type: NA Pump/Tubing Inlet Location: Midpoint of Screen

Measuring Point: Below Top of Riser Initial Depth to Water: 0.00 Depth to Well Bottom: 46.50' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 28.7 Estimated Purge Volume (liters): 56

Sample ID: GW03-005A-P2 Sample Time: 0910 (3/11/04) QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0915	6.72	9.1	11.4	3.4	8.5	-198	NA	0.00
0920	6.98	9.72	11.4	4.49	142	-196	NA	0.00
0925	7.17	10.04	12.0	6.82	>999	-178	NA	0.00
0930	7.22	10.17	12.2	4.84	>999	-154	NA	0.00
0935	7.41	10.00	12.3	8.50	>999	-106	NA	0.00
0940	7.42	10.12	12.3	8.45	>999	-109	NA	0.00
0950	7.71	10.37	13.7	9.48	>999	-73	NA	0.00
1000	7.65	10.08	16.4	10.01	>999	-70	NA	0.00
1010	7.49	9.64	16.4	9.20	>999	-70	NA	0.00
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006A-P1

Date: 3/2/2004 Sampling Personnel: M. Nemeth, D Cofield Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.95' Depth to Well Bottom: 25.70' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 11.00 Estimated Purge Volume (liters): 12

Sample ID: GW03-006A-P1 Sample Time: 1515 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1435	7.34	8.34	1.41	0.29	19.6	-68	450	7.93
1440	7.30	8.44	1.50	0.00	10.2	-81	450	7.92
1445	7.25	8.56	1.63	0.00	5.35	-100	450	7.92
1450	7.22	8.61	1.65	0.00	2.24	-109	450	7.92
1455	7.19	8.63	1.60	0.00	1.36	-108	450	7.92
1500	7.19	8.63	1.57	0.00	1.17	-110	460	7.92
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006B-P2

Date: 3/3/2004 Sampling Personnel: M. Nemeth, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 13.88' Depth to Well Bottom: 53.30' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 24.3 Estimated Purge Volume (liters): 30

Sample ID: GW03-006B-P2 Sample Time: 1430 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1330	8.57	7.73	0.00	9.84	9.87	-126	370	14.03
1335	8.58	8.53	0.00	9.64	8.52	-158	360	14.03
1340	8.51	9.12	0.00	9.64	2.55	-183	480	14.03
1350	8.37	9.53	0.00	9.43	1.69	-179	480	14.04
1400	8.21	9.78	0.00	9.53	1.86	-182	450	14.05
1410	8.08	9.47	0.00	9.52	0.83	-190	450	14.05
1415	8.03	9.96	0.00	9.32	0.86	-195	460	14.05
1420	8.01	9.99	0.00	9.44	0.74	-198	460	14.05
1425	8.00	10.01	0.00	9.42	0.63	-200	450	14.05
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006B-P3

Date: 3/3/2004 Sampling Personnel: M. Nemeth, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: Water below top of pump Depth to Well Bottom: 75.93' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): Estimated Purge Volume (liters):

Sample ID: NOT SAMPLED Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Well could not be purged/sampled due to lack of water.								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006B-P4

Date: 3/3/2004 Sampling Personnel: M. Nemeth, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.96' Depth to Well Bottom: 17.45' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.9 Estimated Purge Volume (liters): 8

Sample ID: GW03-006B-P4 Sample Time: 1010 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0945	7.88	5.59	0.950	8.18	3.57	-223	520	7.92
0950	7.51	6.42	0.617	2.92	1.64	-222	400	8.79
0955	7.46	6.46	0.610	2.30	1.16	-222	280	8.81
1000	7.42	6.55	0.604	1.53	0.87	-221	340	8.89
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-006A-P5

Date: 3/3/2004 Sampling Personnel: M. Nemeth, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.10 Depth to Well Bottom: 34.50' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.6 Estimated Purge Volume (liters): 15

Sample ID: GW03-006A-P5 Sample Time: 0900 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0820	7.03	9.44	5.58	1.32	2.02	-276	460	14.34
0825	7.01	9.34	5.60	0.00	2.56	-313	450	14.40
0830	7.01	9.25	5.39	0.00	4.19	-331	450	14.49
0840	7.03	9.27	5.21	0.00	3.10	-338	450	14.59
0845	7.03	9.25	5.18	0.00	2.10	-342	450	14.59
0850	7.04	9.27	5.16	0.00	1.72	-343	450	14.61
0855	7.04	9.29	5.15	0.00	1.18	-345	450	14.65
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P1

Date: 2/27/2004 Sampling Personnel: T. Burmeier, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.53' Depth to Well Bottom: 32.80' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 16.8 Estimated Purge Volume (liters): 41

Sample ID: GW03-007A-P1 Sample Time: 1300 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1211	7.72	8.62	3.21	0.87	9.64	-255	320	5.59
1216	7.70	8.83	1.32	0.09	3.29	-258	320	5.60
1221	7.59	8.87	0.736	0.00	1.79	-257	320	5.60
1226	7.54	8.94	0.655	0.00	0.87	-247	380	5.60
1231	7.49	8.96	0.613	0.00	1.10	-242	320	5.60
1236	7.47	9.01	0.587	0.00	0.97	-238	320	5.60
1241	7.91	9.00	0.582	0.00	1.23	-234	320	5.60
1246	7.42	8.98	0.572	0.00	0.86	-232	320	5.60
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P2

Date: 3/1/2004 Sampling Personnel: T. Burmeier, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.35' Depth to Well Bottom: 60.40' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 33.34 Estimated Purge Volume (liters): 33.5

Sample ID: GW03-007A-P2 Sample Time: 1040 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0909	5.40	8.65	4.72	0.52	30.0	-212	290	6.36
0914	5.95	8.78	4.59	0.08	14.0	-250	300	6.36
0919	6.37	8.84	4.40	0.01	9.60	-261	300	6.36
0924	6.96	8.93	3.78	0.00	6.43	-277	320	6.35
0934	7.50	9.08	3.46	0.00	3.65	-296	320	6.35
0944	7.83	9.22	3.41	0.00	2.30	-305	310	6.34
0954	7.97	9.20	3.37	0.10	1.68	-311	320	6.34
1004	8.01	9.29	3.35	0.07	1.42	-313	320	6.35
1014	7.98	9.29	3.38	0.01	1.02	-315	330	6.33
1024	8.00	9.28	3.35	0.00	0.90	-316	320	6.34
1034	8.00	9.34	3.36	0.00	0.90	-316	320	6.32
1039	8.04	9.32	3.36	0.00	0.20	-317	320	6.32
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007A-P3

Date: 2/25/2004 Sampling Personnel: M. Nemeth, T. Burmeier Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 32.42' Depth to Well Bottom: 83.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 30.0 Estimated Purge Volume (liters): 32

Sample ID: GW03-007A-P3 Sample Time: 1120 on 2/27/04 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1117	7.19	9.16	>99.9	1.05	49.4	-274	470	34.39
1127	7.30	9.55	>99.9	0.00	70.5	-294	300	36.96
1132	7.38	9.49	>99.9	0.00	102.0	-302	300	38.31
1137	7.38	9.61	>99.9	0.00	128.0	-304	410	39.81
1142	7.45	9.53	>99.9	0.00	185.0	-308	320	42.22
1152	7.45	10.06	>99.9	0.00	264.0	-318	400	50.03
1202	7.52	9.64	>99.9	0.00	300.0	-322	250	52.91
1212	7.51	10.08	>99.9	0.00	358.0	-328	300	59.61
1222	7.65	10.72	>99.9	0.00	553.0	-334	360	69.90
1232	7.59	11.44	>99.9	0.00	281.0	-338	550	77.95
1242	7.79	11.76	>99.9	0.00	419.0	-342	0	>81.0*
*water below top of pump								
Return on 2/26/04		Not enough water to sample.						75.54
Return on 2/27/04		Sampled at 1120.						65.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007B-P4

Date: 2/26/2004 Sampling Personnel: M. Nemeth, T. Burmeier Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.24' Depth to Well Bottom: 18.74' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 8.3 Estimated Purge Volume (liters): 30

Sample ID: GW03-007B-P4 Sample Time: 1200 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1130	7.21	8.69	1.62	3.32	17.8	-104	600	5.24
1135	7.30	8.40	1.59	0.00	2.76	-130	700	5.31
1140	7.45	8.43	1.58	0.00	2.42	-151	700	5.31
1145	7.56	8.39	1.58	0.00	1.13	-176	650	5.31
1150	7.61	8.39	1.57	0.00	0.92	-171	700	5.32
1155	7.61	8.42	1.56	0.00	0.69	-154	650	5.34
1200	7.55	8.39	1.56	0.00	0.91	-152	700	5.34
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-007B-P5

Date: 2/25/2004 Sampling Personnel: M. Nemeth, T. Burmeier Company: URS Corporation

Purging/ Sampling Device: Tempest submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 6.53' Depth to Well Bottom: 42.40' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 22.0 Estimated Purge Volume (liters): 24

Sample ID: GW03-007B-P5 Sample Time: 0910 on 2/26/04 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1328	8.18	9.24	3.31	1.90	22.5	-280	1000	8.33
1333	8.33	8.80	2.88	0.00	NA	-301	350	11.91
1343	8.41	9.24	2.80	0.00	0.70	-314	600	15.63
1353	8.33	9.29	2.75	0.00	15.0	-325	400	21.18
1403	8.24	9.02	2.72	0.00	29.5	-321	250	24.71
1413	8.30	9.46	2.71	0.00	95.9	-316	150	27.45
1425	8.33	9.84	2.67	0.00	146.0	-316	450	31.74
1433	8.15	10.03	2.64	0.00	194.0	-317	250	34.81
1438	8.31	9.53	2.64	0.00	229.0	-312	50	35.86
	Flow rate had to be continually increased as drawdown increased. Flow controller at max by 1433.							
	Battery may have died.							
Return on 2/26/04								
0905	7.13	3.47	2.84	1.96	22.2	-90	0	25.41
	Samples taken for all parameters; no duplicate bottles filled for pesticides or dioxins.							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P1

Date: 3/2/2004 Sampling Personnel: J. Doerr, S.McCabe Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.67 Depth to Well Bottom: 31.60' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 16.62 Estimated Purge Volume (liters): 20

Sample ID: GW03-008A-P1 Sample Time: 1005 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0925	6.39	9.4	0.931	0.63	6	92	690	4.79
0930	6.53	9.4	0.811	0.04	4	-12	680	4.79
0935	6.55	9.5	0.717	0.00	4	-23	670	4.78
0940	6.52	9.5	0.691	0.00	3	-34	660	4.79
0945	6.51	9.6	0.665	0.00	3	-36	700	4.79
0950	6.49	9.6	0.656	0.00	2	-39	710	4.76
0955	6.48	9.7	0.642	0.00	2	-46	720	4.78
1000	6.48	9.7	0.632	0.00	2	-47	700	4.78
1005	6.48	9.7	0.638	0.00	2	-45	700	4.78
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P2

Date: 3/2/2004 Sampling Personnel: J. Doerr, S. McCabe, T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 5.39 Depth to Well Bottom: 82.58' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 47.7 Estimated Purge Volume (liters): 49

Sample ID: GW03-008A-P2 Sample Time: 1115 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0925	8.52	8.84	14.40	7.09	178	-222	350	5.39
0935	9.45	8.89	13.40	0.70	79	-285	350	5.75
0945	10.05	9.02	11.40	0.47	26	-308	340	5.75
0955	10.2	9.26	9.40	0.32	11	-319	440	5.84
1005	6.59*	9.43	7.91	2.12	12	-199	430	5.28
1015	6.73	9.66	7.09	0.00	19	-274	580	5.92
1025	6.78	9.59	6.57	0.00	7	-304	580	5.92
1030	6.81	9.59	6.17	0.00	7	-314	560	5.89
1040	6.82	9.56	5.99	0.00	4	-316	560	5.87
1050	6.83	9.58	5.60	0.00	4	-318	530	5.56
1100	6.85	9.58	5.57	0.00	3	-321	600	5.85
1110	6.85	9.61	5.48	0.00	3	-324	580	5.83
*Note: At 1005 noted high pH readings and checked then switched meters. Could not calibrate original meter								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008A-P3

Date: 3/2/2004 Sampling Personnel: G. Kisluk, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.91 Depth to Well Bottom: 100.82' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 55.47 Estimated Purge Volume (liters): 53

Sample ID: GW03-008A-P3 Sample Time: 1330 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1148	6.71	9.33	54.8	2.82	33	-209	350	10.06
1200	6.83	9.52	67.9	0.00	284	-297	800	10.06
1210	6.89	9.60	72.1	0.00	120	-325	600	10.15
1220	6.90	9.63	72.0	0.00	132	-336	640	10.15
1230	6.89	9.64	71.6	0.00	5	-342	670	10.16
1240	6.80	9.64	70.8	0.00	5	-344	590	10.16
1250	6.88	9.70	68.4	0.00	4	-349	600	10.17
1300	6.88	9.71	71.2	0.00	7	-350	600	10.20
1310	6.87	9.76	70.0	0.00	26	-351	600	10.20
1320	6.86	9.66	70.7	0.00	6	-352	650	10.20
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P4

Date: 3/1/2004 Sampling Personnel: T. Burmeier, R. Petarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.68 Depth to Well Bottom: 24.68' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.3 Estimated Purge Volume (liters): 16

Sample ID: GW03-008B-P4 Sample Time: 1415 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1321	6.32	9.26	0.796	1.36	7.9	-39	310	4.69
1326	6.23	8.84	0.782	0.13	1.5	-43	300	4.68
1336	6.33	8.91	0.774	0.00	80.7	-52	320	4.68
1346	6.37	8.79	0.775	0.00	0.5	-60	320	4.66
1356	6.40	8.79	0.748	0.00	0.6	-63	330	4.66
1406	6.37	8.83	0.743	0.00	0.5	-65	330	4.66
1411	6.33	8.85	0.744	0.00	0.6	-66	330	4.65
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P5

Date: 3/2/2004 Sampling Personnel: T. Bumeier, R. Petarski Company: URS Corporation

Purging/ Sampling Device: Dedicated Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.95 Depth to Well Bottom: 40.80' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 22.1 Estimated Purge Volume (liters): 30

Sample ID: GW03-008B-P5 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0921	5.68	9.07	2.09	2	62	-51	430	5.00
0926	5.96	9.37	1.26	0.07	9.3	-71	440	5.00
0931	6.12	9.46	1.23	0.00	4.1	-80	450	5.00
0941	6.30	9.53	1.20	0.00	3.1	-86	470	4.99
0951	6.42	9.60	1.18	0.00	1.8	-88	480	4.99
1001	6.50	9.63	1.16	0.00	1.3	-88	480	4.99
1011	6.56	9.65	1.15	0.00	0.9	-88	480	4.99
1021	6.63	9.68	1.14	0.00	1.1	-88	480	4.98
1026	6.66	9.66	1.14	0.00	0.9	-88	480	4.98
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-008B-P6

Date: 3/2/2004 Sampling Personnel: T. Burmeier, R. Petarski Company: URS Corporation

Purging/ Sampling Device: mini-Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: Below Pump Depth to Well Bottom: 62.83' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): - Estimated Purge Volume (liters):

Sample ID: DID NOT SAMPLE Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
								water
								below
								pump
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: water level below top of pump. Not enough water in well to purge and sample

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P1

Date: 3/5/2004 Sampling Personnel: T. Burmeier, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 13.71 Depth to Well Bottom: 52.83' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 24.1 Estimated Purge Volume (liters): 40

Sample ID: GW03-009A-P1 Sample Time: 1020 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0905	6.30	10.3	1.56	0.71	47.6	-186	560	13.81
0910	6.64	10.4	1.53	0.16	23.1	-209	560	13.81
0920	6.89	10.3	1.48	0.27	33.2	-217	560	13.74
0930	7.10	10.5	1.12	0.45	24.2	-197	570	13.84
0940	7.20	10.6	1.07	0.02	18.4	-180	570	13.84
0950	7.26	10.6	1.06	0.07	8.1	-187	570	13.84
1000	7.30	10.6	1.04	0.00	5.9	-185	570	13.84
1010	7.34	10.6	1.04	0.00	6.1	-184	570	13.83
1015	7.37	10.6	1.03	0.00	5.9	-184	570	13.84
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P2

Date: 3/8/2004 Sampling Personnel: T. Burmeier, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Tempest 2-stage submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.53 Depth to Well Bottom: 87.80' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 46.4 Estimated Purge Volume (liters): 51

Sample ID: GW03-009A-P2 Sample Time: 1015 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0915	6.87	9.5	2.85	3.30	19.5	-213	1000	12.51
0920	6.99	10.3	3.22	0.00	2.0	-256	1000	12.53
0930	7.00	10.2	3.22	0.00	0.8	-288	890	12.53
0935	7.00	10.2	3.22	0.00	0.6	-288	860	12.54
0940	7.01	10.2	3.22	0.00	0.5	-291	810	12.54
0945	7.01	10.2	3.22	0.00	0.6	-294	790	12.54
0950	7.01	10.2	3.22	0.00	0.5	-296	800	12.54
0955	7.01	10.2	3.22	0.00	0.5	-298	720	12.54
1000	7.02	10.3	3.19	0.00	0.6	-300	800	12.54
1005	7.01	10.3	3.19	0.00	0.5	-301	830	12.55
1010	7.02	10.2	3.19	0.00	0.5	-302	720	12.55
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009A-P3

Date: 3/10/2004 Sampling Personnel: T. Burmeier, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 100.69 Depth to Well Bottom: 117.19' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 10.2 Estimated Purge Volume (liters): 11

Sample ID: GW03-009A-P3 Sample Time: 1030 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0955	6.69	10.8	64.3	0.00	-	-300	940	105.70
10000	6.66	11.1	64.2	0.00	-	-314	840	108.42
1005	6.63	11.5	63.8	0.00	-	-328	720	106.95
1010	6.64	11.3	64.0	0.00	-	-330	330	109.54
1015	6.64	11.5	64.9	0.00	-	-332	350	109.81
1020	6.65	12.3	66.2	0.00	-	-339	520	110.92
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: on 3-8-04 replaced defective monsoon pump with Tsunami submersible pump

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009B-P4

Date: 3/3/2004 Sampling Personnel: J. Doerr, R.Petarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 4.36 Depth to Well Bottom: 23.00 Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 11.5 Estimated Purge Volume (liters): 35

Sample ID: GW03-009B-P4 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0850	5.12	8.9	2.34	4.56	3.4	97	710	7.89
0855	5.37	8.7	2.28	0.00	0.7	79	500	7.93
0900	5.53	8.5	2.27	0.00	1.3	70	600	7.94
0905	5.74	8.5	2.26	0.00	1.0	69	510	7.94
0910	5.84	8.5	2.26	0.00	0.7	69	500	7.94
0915	5.9	8.5	2.24	0.00	0.4	68	490	7.94
0920	6.04	8.6	2.22	0.00	0.6	65	450	7.94
0925	6.07	8.6	2.21	0.00	0.6	64	520	7.94
0930	6.15	8.6	2.17	0.00	0.9	61	580	7.94
0935	6.18	8.6	2.16	0.00	0.5	59	560	7.94
0940	6.20	8.6	2.16	0.00	0.7	59	580	7.94
0945	6.25	8.6	2.15	0.00	0.5	57	580	7.94
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009B-P5

Date: 3/3/2004 Sampling Personnel: J. Doerr, R. Petarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.82 Depth to Well Bottom: 43.00' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 19.9 Estimated Purge Volume (liters): 26

Sample ID: GW03-009B-P5 Sample Time: 1510 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1340	6.49	9.7	2.20	1.24	>1000	57	400	12.53
1350	6.42	9.5	2.13	0.15	16	65	310	16.34
1400	6.51	9.5	2.10	0.07	5.0	61	290	19.35
1410	6.54	9.6	2.10	0.10	3.0	59	260	21.18
1420	6.57	9.6	2.09	0.13	5.0	57	240	23.00
1430	6.60	9.5	2.09	0.13	4.3	57	220	24.10
1440	6.68	9.4	2.08	0.15	4.3	58	210	25.31
1450	6.69	9.4	2.08	0.28	5.0	59	210	25.90
1500	6.72	9.4	2.08	0.41	6.2	59	200	24.25
1510	6.74	9.4	2.10	0.66	5.1	60	200	26.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-009B-P6

Date: 3/3/2004 Sampling Personnel: J. Doerr, R. Petarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 7.32 Depth to Well Bottom: 70.90' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 39.2 Estimated Purge Volume (liters): 36

Sample ID: GW03-009B-P6 Sample Time: 1200 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1030	6.47	8.7	2.55	2.76	1.9	82	450	8.08
1041	6.36	8.0	2.55	1.11	0.7	83	190	8.20
1050	6.46	8.2	2.53	1.17	1.2	80	210	8.20
1100	6.53	8.3	2.52	1.38	1.3	77	200	8.20
1110	6.60	8.5	2.49	1.92	1.3	74	320	8.24
1120	6.63	8.7	2.47	2.14	1.4	72	300	8.37
1130	6.66	8.9	2.43	2.19	2.4	70	320	9.44
1140	6.67	9.4	2.41	2.18	3.5	64	400	9.29
1105	6.68	9.7	2.38	1.99	3.0	60	500	9.81
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P1

Date: 2/25/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: GeoPump2 Peristaltic Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 39.08 Depth to Well Bottom: 74.49' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 22.2 Estimated Purge Volume (liters): 20

Sample ID: GW03-010A-P1 Sample Time: 1615 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1510	6.93	8.49	3.34	0.00	29.10	-268	300	32.62
1515	6.77	8.67	3.15	0.00	16.70	-293	310	33.73
1520	6.78	9.47	2.98	0.00	6.23	-314	325	35.75
1525	6.84	9.26	2.95	0.00	8.31	-318	500	36.00
1530	6.85	9.29	2.96	5.41	9.05	-323	280	37.02
1535	6.88	9.46	2.95	5.27	7.91	-324	280	37.11
1540	6.89	9.52	2.95	4.88	8.01	-325	220	37.18
1545	6.91	10.15	2.94	4.82	7.99	-331	420	38.54
1550	6.92	9.92	2.96	4.31	5.30	-327	350	38.85
1600	6.93	9.79	2.98	3.82	2.61	-330	320	38.89
1610	6.94	9.78	2.97	3.86	2.60	-331	350	38.89
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P2

Date: 2/27/2003 Sampling Personnel: S. Tivnan, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.71 Depth to Well Bottom: 104.20' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 58.2 Estimated Purge Volume (liters): 56

Sample ID: GW03-010A-P2 Sample Time: 1200 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1050	6.98	9.33	3.52	2.29	45.30	-109	970	10.72
1100	6.87	9.33	3.51	0.00	0.52	-220	600	10.76
1110	6.93	9.39	3.56	0.00	0.18	-264	520	10.76
1120	6.96	9.49	3.52	0.00	0.12	-276	740	10.76
1130	6.98	9.52	3.52	0.00	0.07	-281	740	10.76
1140	7.00	9.51	3.49	0.00	0.07	-283	860	10.76
1150	6.99	9.64	3.50	0.00	0.15	-284	860	10.77
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010A-P3

Date: 3/1/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 62.80 Depth to Well Bottom: 129.90' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 41.4 Estimated Purge Volume (liters): 50

Sample ID: GW03-010A-P3 Sample Time: 3/2/04-1615 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1615	6.85	9.61	54.7	0.00	23.4	-283	420	62.80
1625	6.84	9.64	54.2	0.00	25.7	-289	420	72.70
1635	6.86	10.00	54.9	0.00	13.8	-289	380	79.72
1645	6.88	10.19	53.7	0.00	13.1	-287	500	84.40
1655	6.91	10.15	55.5	0.00	17.9	-290	1000	95.80
1705	6.93	10.82	54.9	0.00	26.6	-295	1000	104.00
1715	7.07	11.10	51.4	0.00	21.3	-298	1000	114.30
1725	Well pumped below level of pumped (Dry)							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Well purged to dryness and sampled the following day

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P4

Date: 3/1/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.40 Depth to Well Bottom: 48.22' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 20.9 Estimated Purge Volume (liters): 23

Sample ID: GW03-010B-P4 Sample Time: 1130 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1040	7.20	9.52	0.91	1.80	7.62	-41	600	14.40
1045	7.00	9.57	0.86	0.00	26.30	-43	460	14.40
1050	7.00	9.63	0.85	0.00	2.10	-52	480	14.40
1100	7.00	9.63	0.85	0.00	3.90	-56	530	14.40
1105	6.99	9.72	0.84	0.00	1.20	-57	600	14.40
1110	7.00	9.68	0.84	0.00	0.70	-59	600	14.40
1115	7.00	9.72	0.84	0.00	0.80	-58	520	14.40
1120	7.01	9.74	0.84	0.00	0.40	-57	520	14.40
1125	7.02	9.76	0.84	0.00	0.50	-57	500	14.40
1130	7.07	9.72	0.85	0.00	0.90	-56	500	14.40
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P5

Date: 3/1/2004 Sampling Personnel: J. Doerr, S. Mccabe Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 17.09 Depth to Well Bottom: 62.04' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 21.3 Estimated Purge Volume (liters): 22

Sample ID: GW03-010B-P5 Sample Time: 1320 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1150	7.11	9.57	1.87	0.01	1.40	-231	320	17.09
1200	7.06	9.53	1.87	0.00	0.90	-241	320	17.38
1210	7.07	9.61	1.92	0.00	0.70	-263	300	17.45
1220	7.12	9.74	2.17	0.00	0.70	-289	400	17.68
1230	7.13	9.66	2.20	0.00	0.50	-308	400	17.74
1240	7.15	9.61	2.23	0.00	1.00	-310	400	17.74
1250	7.15	9.59	2.21	0.00	0.70	-313	380	17.74
1300	7.15	9.60	2.16	0.00	0.20	-314	360	17.76
1310	7.15	9.56	2.18	0.00	0.40	-316	440	17.74
1320	7.15	9.52	2.21	0.00	0.30	-317	400	17.79
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010B-P6

Date: 3/1/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 20.69 Depth to Well Bottom: 88.22' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 41.7 Estimated Purge Volume (liters): 56

Sample ID: GW03-010B-P6 Sample Time: 1000 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0900	7.79	7.21	4.09	8.36	7.67	-107	900	20.69
0910	7.01	9.64	3.52	0.03	6.12	-231	850	23.65
0920	7.00	9.75	3.47	0.00	2.22	-244	750	23.91
0925	7.00	9.85	3.46	0.00	5.46	-248	1,000	25.62
0930	7.01	9.86	3.46	0.00	2.13	-252	1,000	25.93
0935	7.02	9.87	3.45	0.00	1.24	-254	1,000	26.11
0940	7.03	9.90	3.45	0.00	1.24	-257	960	25.93
0945	7.04	9.93	3.43	0.00	0.30	-261	960	25.90
0950	7.04	9.98	3.43	0.00	0.25	-261	940	25.83
0955	7.05	9.99	3.43	0.00	0.64	-262	930	25.72
1000	7.05	10.00	3.43	0.00	0.64	-262	930	25.69
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Pump shuts off at less than 1 liter/minute

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-010C-P7

Date: 3/1/2004 Sampling Personnel: J. Doerr, S. McCabe Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.22 Depth to Well Bottom: 26.61' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.36 Estimated Purge Volume (liters): 17

Sample ID: GW03-010C-P7 Sample Time: 1540 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1445	6.97	9.34	3.56	1.42	55.20	-20	400	14.22
1450	6.93	6.23	3.58	0.51	5.60	-9	400	14.29
1455	6.92	9.13	3.57	0.09	37.30	0	400	14.29
1500	6.93	9.01	3.58	0.05	483.00	39	400	14.29
1505	6.92	9.00	3.56	0.00	12.70	8	380	14.29
1510	6.94	8.97	3.49	0.32	18.00	30	320	14.29
1515	6.93	8.99	3.47	0.25	3.14	37	380	14.29
1520	6.92	8.97	3.45	0.27	2.16	40	430	14.29
1525	6.92	8.99	3.40	0.07	2.51	44	400	14.29
1530	6.94	9.02	3.41	0.07	0.61	48	400	14.29
1535	6.95	8.97	3.34	0.04	0.64	51	400	14.29
1540	6.95	8.97	3.32	0.03	0.63	50	400	14.29
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P1

Date: 3/4/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 28.65 Depth to Well Bottom: 74.49 Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 28.28 Estimated Purge Volume (liters): 30

Sample ID: GW03-011A-P1 Sample Time: 0920 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0815	7.10	8.06	3.27	9.25	94.1	-211	360	28.65
0820	6.90	10.23	4.71	0.00	159	-251	360	28.65
0830	6.96	10.32	2.38	0.00	206	-289	320	28.65
0840	7.00	10.60	2.09	0.00	26.1	-304	540	28.68
0850	7.01	10.59	1.97	0.00	3.14	-310	560	28.70
0900	7.02	10.56	1.94	0.00	0.98	-309	500	28.69
0910	7.05	10.64	1.89	0.00	0.44	-311	500	28.68
0920	7.07	10.71	1.86	0.00	0.23	-314	500	28.68
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P2

Date: 3/4/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 28.45 Depth to Well Bottom: 107.80' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 48.95 Estimated Purge Volume (liters): 78

Sample ID: GW03-011A-P2 Sample Time: QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0950	7.30	10.27	12.8	1.61	8.37	-304	800	28.45
0955	7.16	10.39	7.25	0.00	23.1	-294	800	28.59
1005	7.14	10.45	10.8	0.00	5.37	-332	680	28.58
1010	7.08	10.81	14.7	0.00	8.93	-362	800	28.58
1020	7.09	11.22	14.8	0.00	8.35	-366	800	28.59
1030	pump stops							
1300	6.92	10.56	15.5	0.49	147	-323	900	28.58
1310	7.00	10.62	16.2	0.00	25.8	-350	900	28.60
1320	7.03	10.70	16.6	0.00	4.20	-360	900	28.65
1330	7.03	10.70	16.4	0.00	0.84	-363	900	28.70
1340	7.04	10.70	16.3	0.00	0.41	-364	900	28.70
1350	7.04	10.69	16.1	0.00	0.42	-365	NA	28.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011A-P3

Date: 3/4/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 29.28 Depth to Well Bottom: 135.11' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 65.3 Estimated Purge Volume (liters): 68

Sample ID: GW03-011A-P3 Sample Time: 1420 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1015	6.79	10.39	53.2	5.78	464	-252	940	30.52
1020	pump fails							
	install new submersible pump							
1300	6.87	10.26	39.7	11.27	152	-308	450	30.32
1310	6.74	10.50	51.9	0.00	15.9	-332	700	30.25
1320	6.73	10.52	52.0	0.00	6.93	-343	690	30.15
1330	6.72	10.54	51.5	0.00	7.86	-353	750	31.19
1340	6.69	10.66	51.1	0.00	5.90	-358	870	30.88
1350	6.70	10.64	52.1	0.00	4.55	-361	830	30.70
1400	6.70	10.65	51.2	0.00	4.43	-363	830	30.78
1410	6.71	10.66	50.9	0.00	4.47	-364	830	30.76
1420	6.71	10.60	50.3	0.00	4.50	-365	810	30.68
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011B-P4

Date: 3/3/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.30 Depth to Well Bottom: 49.62' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 25.50 Estimated Purge Volume (liters): 28

Sample ID: GW03-011B-P4 Sample Time: 0910 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0810	6.92	8.52	1.08	8.05	45.2	39	530	8.30
0815	7.70	9.57	1.05	1.30	45.6	-25	530	8.32
0820	7.85	10.19	0.99	0.78	15.7	-38	590	8.31
0825	7.99	10.28	0.98	0.52	8.81	-55	590	8.33
0835	8.08	10.29	0.97	0.43	4.71	-66	590	8.33
0840	8.16	10.35	0.96	0.36	4.04	-79	640	8.35
0845	8.29	10.36	0.95	0.37	3.47	-91	650	8.35
0850	8.38	10.36	0.94	0.33	3.80	-101	650	8.35
0855	8.53	10.36	0.94	0.33	3.40	-118	600	8.35
0900	8.68	10.35	0.93	0.33	3.13	-139	630	8.35
0905	8.70	10.34	0.93	0.33	3.20	-139	630	8.35
0910	8.76	10.33	0.93	0.34	3.32	-143	630	8.35
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011B-P5

Date: 3/3/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 86.01' Depth to Well Bottom: 89.50' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 2.20 Estimated Purge Volume (liters): 3.0

Sample ID: Not Sampled Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1025	9.11	9.81	4.29	3.7	41.1	-213	300	86.75
1027	Well pumped dry							
Return on 3/4/04		Will hand-bail well.						86.69
		Bailed approximately 2 liters.						
Return on 3/5/04		Bailer will not hold water. No sample taken.						87.33
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011C-P7

Date: 3/4/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 8.65' Depth to Well Bottom: 33.69' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 15.50 Estimated Purge Volume (liters): 22

Sample ID: GW03-011C-P7 Sample Time: 0830 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0800	7.32	10.79	5.80	12.32	15.6	8	630	8.65
0805	7.28	10.91	5.76	6.27	7.20	-46	690	8.65
0810	7.31	10.91	5.76	5.96	7.54	-58	690	8.65
0815	7.41	10.93	1.27	0.02	6.01	-67	660	8.65
0820	7.40	10.96	1.24	0.00	5.74	-77	710	8.66
0825	7.40	10.97	1.23	0.00	4.91	-79	720	8.66
0830	7.40	10.97	1.22	0.00	4.87	-82	730	8.65
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-011C-P8

Date: 3/3/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.90' Depth to Well Bottom: 61.32' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 30.5 Estimated Purge Volume (liters): 32

Sample ID: GW03-011C-P8 Sample Time: 1530 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1310	8.15	9.38	0.002	12.50	18.8	-27	240	13.60
1315	8.20	9.83	0.002	12.37	15.9	-37	230	14.52
1330	8.25	10.76	0.001	11.93	34.8	-38	290	16.67
1350	8.18	11.03	0.001	12.00	41.7	-32	200	18.36
1410	8.14	10.89	0.001	12.08	23.9	-30	180	19.08
1430	8.12	10.72	0.001	12.02	19.5	-31	200	19.65
1450	8.13	10.62	0.001	11.90	15.0	-34	200	19.80
1500	8.17	10.58	0.001	11.69	13.2	-39	230	20.23
1510	8.31	10.50	0.001	11.55	18.0	-56	220	20.35
1515	8.22	10.45	0.001	11.53	15.5	-46	210	20.50
1520	8.17	10.42	0.001	11.51	17.1	-41	200	20.45
1525	8.14	10.38	0.001	11.48	17.6	-38	220	20.45
1530	8.13	10.37	0.001	11.46	18.3	-38	230	20.65
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012A-P1

Date: 3/4/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: DRY Depth to Well Bottom: 58.91 Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): N/A Estimated Purge Volume (liters): N/A

Sample ID: NOT SAMPLED Sample Time: N/A QA/QC: N/A

Sample Parameters: N/A

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012A-P2

Date: 3/3/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 73.85' Depth to Well Bottom: 111.51' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 23.2 Estimated Purge Volume (liters): 36

Sample ID: GW03-012A-P2 Sample Time: 1130 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1020	6.97	10.71	3.94	6.13	533	95	1000	71.40
1030	7.01	10.27	4.00	6.67	248	106	600	71.15
1040	7.07	10.27	4.10	0.14	137	108	600	70.90
1050	7.03	11.98	4.04	0.00	11.0	112	600	71.04
1100	7.04	12.00	4.05	0.00	7.7	113	600	70.90
1110	7.06	11.61	4.05	0.00	11.6	116	600	70.98
1120	7.05	12.39	4.02	0.00	4.74	102	600	71.1
1130	7.05	12.22	4.03	0.00	4.64	97	600	71.2
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012A-P3

Date: 3/4/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Monsoon submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 77.44' Depth to Well Bottom: 130.83' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 33.0 Estimated Purge Volume (liters):

Sample ID: GW03-012A-P3 Sample Time: 1640 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1515	6.17	8.80	>99.9	3.33	121	-108	400	77.44
1520	6.78	9.60	>99.9	4.89	170	-107	400	84.38
1530	6.77	10.68	>99.9	0.00	21	-215	400	90.13
1540	6.76	11.16	>99.9	0.00	10	-230	400	95.38
1550	6.76	11.74	>99.9	0.00	9.16	-235	550	100.89
1600	6.77	11.43	>99.9	0.00	7.61	-230	500	105.15
1610	6.77	11.87	>99.9	0.00	10.9	-241	450	110.01
1620	6.78	11.74	>99.9	0.00	9.04	-237	300	113.35
1630	6.79	11.62	>99.9	0.00	14.2	-234	300	115.90
1640	6.81	11.56	>99.9	0.00	7.63	-232	400	118.13
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Well was sampled even though >10% drop. Well parameters are stable and one well volume was removed. Enough water was present to sample.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P4

Date: 3/3/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: None Tubing Type: NA Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 39.74' Depth to Well Bottom: 41.05' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 0.80 Estimated Purge Volume (liters): 0.0

Sample ID: NA Sample Time: NA QA/QC: None

Sample Parameters: None.

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
	Well is dry.							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P5

Date: 3/3/2004 Sampling Personnel: S. McCabe, J. Esposito Company: URS Corporation

Purging/ Sampling Device: Mini-Monsoon Submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 59.06' Depth to Well Bottom: 66.97' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 4.86 Estimated Purge Volume (liters): 11

Sample ID: GW03-012B-P5 Sample Time: 1655 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1600	7.18	9.85	3.87	1.87	440	-224	400	59.06
1605	6.98	10.35	3.90	0.63	462	-182	200	59.75
1610	6.97	10.60	4.01	0.00	259	-157	200	59.90
1615	6.97	11.33	4.03	0.00	69.5	-144	200	59.90
1620	6.97	11.36	3.98	0.00	22.9	-131	200	59.95
1625	6.98	11.14	3.91	0.00	7.95	-112	200	59.95
1630	6.98	11.77	3.85	0.00	3.85	-103	200	60.20
1635	6.99	11.69	3.78	0.00	2.64	-90	200	60.10
1640	7.00	11.69	3.76	0.00	1.76	-83	200	60.10
1645	7.01	11.47	3.71	0.00	0.97	-70	200	60.10
1650	7.02	11.37	3.68	0.00	1.21	-68	200	60.10
1655	7.04	11.21	3.65	0.00	0.86	-61	200	60.10
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012B-P6

Date: 3/3/2004 Sampling Personnel: S. McCabe, J. Esposito Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 72.66' Depth to Well Bottom: 87.99' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.46 Estimated Purge Volume (liters):

Sample ID: GW03-012B-P6 Sample Time: 1320 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1245	6.93	11.01	4.42	1.62	110	-181	500	72.66
1250	6.96	11.22	4.46	0.63	21.7	-194	500	73.75
1255	6.98	11.28	4.34	0.00	4.93	-212	500	73.80
1300	6.8	11.29	3.84	0.00	3.25	-208	500	73.02
1305	7.00	11.24	4.22	0.00	1.26	-207	500	73.05
1310	7.01	11.26	3.47	0.00	1.55	-212	500	73.05
1315	7.01	11.31	3.90	0.00	1.10	-217	500	72.95
1320	7.02	11.25	4.34	0.00	1.08	-216	500	73.04
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-012C-P7

Date: 3/3/2004 Sampling Personnel: M. Nemeth, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: HDPE Disposable Bailer Tubing Type: NA Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 24.18 Depth to Well Bottom: 26.84' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.6 Estimated Purge Volume (liters): 7.5

Sample ID: GW03-012C-P7 Sample Time: 1630 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1605	7.33	8.81	2.32	9.33	29.1	-37	NA	24.18
1610	7.24	9.08	2.66	8.01	254	-27	NA	24.59
1615	7.22	8.95	3.59	8.18	175	-19	NA	24.59
1620	7.21	8.88	3.72	8.21	168	-6	NA	24.59
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P1

Date: 2/26/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 40.23 Depth to Well Bottom: 58.36' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 11.2 Estimated Purge Volume (liters): 20

Sample ID: GW03-013A-P1 Sample Time: 0950 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0830	6.65	9.83	1.80	5.98	11.60	67	300	40.23
0835	6.74	9.59	1.54	3.91	9.3	54	250	44.95
0845	6.79	9.17	1.63	4.66	7.2	43	250	46.89
0855	6.79	10.03	1.68	5.10	2.40	35	250	47.13
0905	6.83	10.59	2.14	5.53	1.80	37	250	47.21
0915	6.83	10.87	2.28	4.93	1.10	30	250	47.20
0925	6.84	10.98	2.31	4.45	0.90	29	250	47.48
0935	6.86	10.62	2.33	5.05	0.50	28	250	47.53
0945	6.87	10.23	2.33	4.62	0.30	26	250	47.70
0950	6.88	10.13	2.29	4.91	0.70	27	250	47.83
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P2

Date: 2/25/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 48.98 Depth to Well Bottom: 110.65' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 30.9 Estimated Purge Volume (liters): 48

Sample ID: GW03-013A-P2 Sample Time: 1130 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1020	6.79	10.43	1.03	4.84	38.1	-93	640	48.98
1025	6.93	10.30	1.04	0.00	10.9	-81	560	49.22
1030	6.91	11.18	1.05	0.00	4.10	-82	700	49.20
1040	6.94	11.42	1.08	0.00	1.30	-82	510	49.18
1050	6.95	11.96	1.10	0.00	0.30	-84	1000	49.12
1100	6.93	11.92	1.13	0.00	0.30	-86	960	49.08
1110	6.94	11.65	1.13	0.00	0.20	-85	880	49.07
1120	6.95	11.60	1.14	0.00	0.10	-86	950	49.12
1130	6.96	11.60	1.14	0.00	0.20	-87	1000	49.12
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013A-P3

Date: 2/26/2004 Sampling Personnel: S. McCabe, J. Doerr, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 49.01 Depth to Well Bottom: 133.03' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 51.84 Estimated Purge Volume (liters): 60

Sample ID: GW03-013A-P3 Sample Time: 1200 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1030	7.52	10.32	4.29	0.00	67.4	-193	600	49.01
1040	7.42	10.11	2.31	0.00	1.8	-249	830	48.89
1050	7.49	8.80	2.64	0.00	2.2	-239	580	48.86
1100	7.50	10.68	2.34	0.00	1.2	-269	590	48.84
1110	7.49	11.13	2.43	0.00	0.3	-278	780	48.71
1120	7.52	11.07	2.56	0.00	0.30	-286	980	48.68
1130	7.55	10.16	2.67	0.00	0.20	-294	700	48.65
1140	7.57	10.51	2.65	0.00	0.30	-297	720	48.56
1150	7.55	11.17	2.64	0.00	0.10	-300	880	48.56
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water is dark in color

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P4

Date: 2/26/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 43.00 Depth to Well Bottom: 45.29' Well Diameter: 2-Inch Screen Length: 3'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.40 Estimated Purge Volume (liters): 2

Sample ID: GW03-013B-P4 Sample Time: 1530 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1450	7.06	10.87	2.26	1.36	175.00	187	640	43.00
1500	7.05	10.89	2.26	1.54	1.50	187	600	N/A
1510	7.05	10.98	2.27	1.43	1.00	186	610	N/A
1520	7.05	10.94	2.27	0.26	0.56	185	600	N/A
1530	7.05	10.90	2.27	0.00	0.37	184	740	N/A
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P5

Date: 2/26/2004 Sampling Personnel: J. Doerr, S. McCabe Company: URS Corporation

Purging/ Sampling Device: Dedicated submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 48.47 Depth to Well Bottom: 72.37' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.7 Estimated Purge Volume (liters): 23

Sample ID: GW03-013B-P5 Sample Time: 1405 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1245	7.33	9.45	2.40	7.72	30.80	-168	350	48.47
1255	6.95	8.67	2.49	0.00	50.7	-257	200	50.41
1305	6.94	9.19	2.48	0.00	16.20	-268	200	50.58
1315	6.98	9.01	2.48	0.00	8.10	-278	200	51.00
1325	6.99	9.92	2.48	0.00	2.30	-291	225	51.03
1335	7.00	10.38	2.47	0.00	1.30	-303	300	51.82
1345	7.00	10.43	2.46	0.00	0.90	-309	300	51.88
1355	7.02	9.86	2.44	0.00	0.90	-314	250	51.55
1405	7.00	10.7	2.42	0.00	0.30	-316	230	51.48
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013B-P6

Date: 2/26/2004 Sampling Personnel: J. Doerr, S. McCabe, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: Bailer Tubing Type: N/A Pump/Tubing Inlet Location: N/A

Measuring Point: Below Top of Riser Initial Depth to Water: 80.90 Depth to Well Bottom: 84.13' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.99 Estimated Purge Volume (liters): 10.0

Sample ID: GW03-013B-P6 Sample Time: 2/27/04-0900 QA/QC: N/A

Sample Parameters: TCL VOCs; Alkalinity (Carb+Bicarb); TOC

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1620.000	6.97	8.06	14.0	2.390	56.4	-81	N/A	81.000
1625	6.80	10.19	15.2	3.08	130.0	-76	N/A	82.57
1630	6.85	10.17	15.3	5.47	235.0	-71	N/A	83.24
1635	6.73	9.49	14.6	5.89	311.0	-51	N/A	83.52
Well Bailed dry								
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-013C-P7

Date: 2/26/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Disposable bailer Tubing Type: N/A Pump/Tubing Inlet Location: N/A

Measuring Point: Below Top of Riser Initial Depth to Water: 35.13 Depth to Well Bottom: 37.43' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 1.42 Estimated Purge Volume (liters): 4

Sample ID: GW03-013C-P7 Sample Time: 1515 QA/QC: None

Sample Parameters: TCL VOCs; Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1425	7.15	11.31	1.57	2.30	154.0	-191	-	35.13
1430	7.11	10.27	1.62	1.04	-	-187	-	-
1440	7.11	10.36	1.600	2.32	175.0	-182	-	36.90
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P1

Date: 2/26/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible 3-Stage Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 30.72' Depth to Well Bottom: 72.50' (assumed from previous event) Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 25.8 Estimated Purge Volume (liters): 26

Sample ID: GW03-014A-P1 Sample Time: 0815 on 2/27/04 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1525	9.90	10.52	6.49	4.49	46.0	-330	520	33.90
1530	10.70	10.52	6.90	1.45	63.3	-369	260	37.30
1535	10.87	11.07	6.84	0.66	2.74	-378	290	42.18
1545	10.82	11.41	6.89	0.48	9.19	-376	390	45.91
1555	11.06	11.05	6.87	0.25	4.33	-372	230	51.35
1605	11.01	11.83	6.82	0.30	9.90	-377	430	58.24
1615	10.89	12.22	6.80	0.12	9.56	-378	490	63.58
1625	10.74	12.87	6.77	0.10	9.19	-379	630	68.13
1630	Well purged dry. Returned on 2/27/04 to sample.							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P2

Date: 3/2/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Disposable HDPE Bailer Tubing Type: NA Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 101.75' Depth to Well Bottom: 121.98' (assumed from previous event) Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 12.5 Estimated Purge Volume (liters): 9

Sample ID: GW03-014A-P2 Sample Time: 3/4/04- 1515 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1550	5.45	9.43	53.5	9.31	28.1	4	NA	NA
1602	6.01	8.61	54.7	8.77	80.1	8	NA	NA
1610	5.88	8.54	55.7	8.79	158	5	NA	NA
1621	5.65	9.15	54.3	8.70	82.5	18	NA	NA
1627	Well purged dry.							
Tolerance:	0.1	---	3%	10%	10%	+ or - 10	---	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014A-P3

Date: 3/1/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Mini-Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 38.52' Depth to Well Bottom: 148.52' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 67.9 Estimated Purge Volume (liters): 70

Sample ID: GW03-014A-P3 Sample Time: 1645 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1415	8.07	10.94	>99.9	2.81	42	-109	800	39.12
1425	9.33	10.66	>99.9	0.17	411	-236	540	39.49
1435	9.92	10.85	>99.9	0.09	19.8	-298	510	40.01
1450	10.19	10.89	>99.9	0.07	5.18	-322	470	40.70
1500	10.25	10.9	>99.9	0.08	4.59	-315	400	40.19
1515	10.35	10.92	>99.9	0.08	5.63	-321	860	40.45
1530	10.22	10.97	>99.9	0.05	3.53	-327	520	41.02
1545	10.29	10.92	>99.9	0.06	3.34	-327	550	41.28
1600	10.43	10.85	>99.9	0.05	1.69	-327	450	41.30
1615	10.31	10.82	>99.9	0.05	1.30	-328	460	41.49
1630	10.44	10.94	>99.9	0.05	3.92	-331	870	41.54
1645	10.36	11.02	>99.9	0.04	51.7	-336	940	42.70
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P4

Date: 2/27/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 28.02 Depth to Well Bottom: 51.20' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.3 Estimated Purge Volume (liters):

Sample ID: GW03-014B-P4 Sample Time: 1040 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1000	11.06	10.69	2.78	7.70	72	-134	920	28.40
1005	8.66	11.20	1.96	1.04	43	-152	950	28.31
1010	8.70	11.30	1.92	0.43	12.9	-159	870	28.31
1015	8.80	11.42	1.89	0.35	2.29	-167	960	28.37
1020	8.89	11.30	1.89	0.34	1.36	-172	750	28.25
1025	8.94	11.32	1.88	0.32	1.09	-175	700	28.25
1030	8.97	11.38	1.88	0.32	1.21	-178	750	28.27
1035	9.02	11.35	1.88	0.31	1.01	-180	770	28.27
1040	9.04	11.33	1.88	0.31	1.10	-181	620	28.23
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P5

Date: 2/25/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Tsunami submersible Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 29.57' Depth to Well Bottom: 86.25' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 35.0 Estimated Purge Volume (liters): 36

Sample ID: GW03-014B-P5 Sample Time: 1530 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1420	9.43	10.76	2.13	8.00	72	-217	800	29.61
1425	9.94	10.96	2.25	0.36	3.79	-246	740	29.58
1430	10.03	11.13	2.26	0.27	3.61	-258	750	29.59
1435	10.12	11.06	2.27	0.23	3.77	-266	640	29.69
1440	10.19	11.05	2.27	0.22	2.66	-274	530	29.80
1450	10.23	11.05	2.27	0.21	2.50	-281	400	29.85
1455	10.26	11.17	2.26	0.21	1.99	-286	760	29.95
1500	10.30	11.04	2.27	0.20	1.40	-290	530	30.10
1505	10.34	10.96	2.27	0.20	1.34	-292	490	30.30
1510	10.39	10.66	2.30	0.21	1.00	-292	240	30.52
1515	10.30	11.39	2.25	0.20	1.11	-294	700	30.69
1520	10.32	11.21	2.27	0.18	1.54	-295	740	30.95
1525	10.37	11.18	2.28	0.20	1.44	-294	500	30.10
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014B-P6

Date: 2/25/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Submersible pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 29.55 Depth to Well Bottom: 100.40' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 43.7 Estimated Purge Volume (liters): 49

Sample ID: GW03-014B-P6 Sample Time: 1250 QA/QC: MS/MSD

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1130	10.78	10.16	0.599	11.15	10.40	-239	230	30.65
1135	10.79	10.63	0.676	2.25	46.4	-275	500	29.75
1145	10.49	10.84	0.696	0.71	7.92	-262	640	29.75
1155	10.47	10.92	0.690	0.48	3.28	-260	650	29.85
1205	10.47	10.86	0.689	0.34	2.18	-259	560	29.77
1215	10.45	11.04	0.684	0.22	4.31	-259	600	29.72
1225	10.40	11.16	0.682	0.20	5.00	-257	990	29.62
1235	10.45	10.94	0.683	0.20	4.47	-259	720	29.47
1240	10.44	10.82	0.684	0.22	3.41	-259	670	29.64
1245	10.45	10.91	0.683	0.24	2.60	-259	660	29.67
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-014C-P7

Date: 2/26/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 27.94' Depth to Well Bottom: 36.44' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 5.2 Estimated Purge Volume (liters): 10

Sample ID: GW03-014C-P7 Sample Time: 1400 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1310	6.74	9.99	9.87	4.75	11.7	79	220	27.94
1315	6.77	10.68	10.5	3.81	7.85	77	210	27.91
1320	6.83	10.98	10.6	3.50	3.53	71	230	27.91
1325	6.87	11.01	10.7	3.47	4.74	68	225	27.92
1330	6.88	11.05	10.7	3.53	4.13	66	230	27.92
1335	6.89	11.16	10.8	3.36	3.67	65	230	27.90
1340	6.89	11.07	10.8	3.33	4.49	64	230	27.90
1345	6.91	11.06	10.8	3.24	3.70	63	240	27.87
1350	6.90	11.06	10.9	3.33	3.83	63	230	27.87
1355	6.90	11.05	10.9	3.36	3.28	63.0	220	27.87
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P1

Date: 3/5/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 25.92 Depth to Well Bottom: 66.37' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 25.0 Estimated Purge Volume (liters): 27

Sample ID: GW03-015A-P1 Sample Time: 1035 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	6.32	10.59	8.34	0.85	962	-171	280	25.92
0905	6.15	10.82	4.46	0.00	104.0	-173	280	25.92
0915	6.02	10.82	3.58	0.00	6.60	-166	250	25.95
0925	5.99	10.88	3.42	0.00	3.41	-163	250	25.98
0935	5.97	10.87	3.24	0.00	2.35	-157	280	26.01
0945	5.96	10.86	3.09	0.00	0.87	-158	250	26.09
0955	5.94	10.84	3.01	0.00	0.56	-145	280	26.18
1005	5.94	10.84	2.97	0.00	0.93	-142	260	26.05
1015	5.92	10.87	2.90	0.00	0.48	-136	250	26.10
1025	5.92	10.91	2.87	0.00	0.48	-134	260	26.11
1035	5.93	10.97	2.86	0.00	0.35	-133	250	26.14
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P2

Date: 3/5/04-3/9/04 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Submersible pump and bailer Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 30.28 Depth to Well Bottom: 119.79' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 55.22 Estimated Purge Volume (liters): 78

Sample ID: GW03-015A-P2 Sample Time: 3/10/04-0845 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1425	6.20	9.70	99.9	0.00	13.40	-280	650	30.28
1435	6.45	9.37	>99.9	0.92	3.93	-309	550	36.35
1445	6.45	9.26	>99.9	1.31	5.68	-313	530	40.90
1455	6.46	9.07	>99.9	1.45	4.93	-312	580	42.83
1505	6.48	8.76	>99.9	1.30	2.15	-317	620	45.42
1515	6.48	9.95	>99.9	1.33	2.03	-321	600	47.96
1525	6.50	9.89	>99.9	1.12	1.60	-323	610	51.86
1535	6.49	10.10	>99.9	1.28	1.66	-322	620	53.27
1545	6.54	9.95	>99.9	0.97	1.41	-342	500	55.67
Pump broke;- Bailed dry on 3/9/04								
0935	6.24	9.52	83.9	6.94	30.4	-283	N/A	46.92
0945	6.65	10.28	68.9	2.72	123.0	-327	N/A	56.78
0955	6.57	10.20	77.3	0.61	52.9	-338	N/A	66.29
1005	6.48	9.82	91.2	0.00	57.5	-341	N/A	84.83
1015	6.49	-	90.2	0.81	155.0	-316	N/A	97.56
1030	6.52	8.65	84.9	0.15	176.0	-336	N/A	106.13
1040	6.48	8.85	97.7	0.91	587.0	-336	N/A	114.25
1100	6.45	8.81	99.9	0.93	781.0	-305	N/A	116.35
1107	Bailed dry							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015A-P3

Date: 3/8/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Bailer Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 115.74 Depth to Well Bottom: 148.85' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 20.5 Estimated Purge Volume (liters): 25

Sample ID: GW03-015A-P3 Sample Time: 38055 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL PCBs; Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0830	6.67	7.86	>99.9	3.17	131.0	118	N/A	115.74
0900	6.99	9.22	>99.9	3.09	251.0	116	N/A	131.80
0915	7.10	8.55	>99.9	4.60	360.00	107	N/A	141.90
0930	7.34	8.61	>99.9	2.39	863.0	106	N/A	144.32
0955	7.31	8.34	>99.9	4.09	357.0	107	N/A	-
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P4

Date: 3/4/2004 Sampling Personnel: S. Tivnan, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 24.75 Depth to Well Bottom: 76.15' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 30.0 Estimated Purge Volume (liters): 12

Sample ID: GW03-015B-P4 Sample Time: 1545 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1410	7.22	10.10	2.27	0.18	178.00	-200	175	27.77
1415	7.19	10.03	2.28	0.00	424.00	-222	150	28.53
1420	7.18	9.96	2.22	0.00	121.00	-234	115	28.78
1425	7.16	9.77	2.17	0.00	30.30	-243	100	28.91
1435	7.18	9.43	2.16	0.00	11.00	-251	100	28.89
1450	7.19	9.45	2.16	0.00	5.23	-258	100	28.86
1505	7.18	9.35	2.15	0.00	1.94	-262	100	28.82
1520	7.19	9.32	2.15	0.00	1.30	-265	90	28.81
1535	7.19	9.46	2.14	0.00	1.44	-269	100	28.89
1545	7.19	9.61	2.13	0.00	1.29	-270	100	28.91
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P5

Date: 3/8/2004 Sampling Personnel: D. Cofield, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 26.05 Depth to Well Bottom: 88.37' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 38.5 Estimated Purge Volume (liters): 31

Sample ID: GW03-015B-P5 Sample Time: 1130 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0850	6.41	9.77	1.69	7.44	4.28	92	280	25.96
0855	8.27	10.10	1.69	5.37	1.41	88	290	26.05
0900	8.08	10.15	1.72	3.42	1.15	88	280	26.29
0910	8.00	10.17	1.75	2.95	0.42	89	280	26.48
0920	7.86	10.21	1.80	2.05	0.40	91	280	26.50
0930	7.41	10.23	2.08	0.30	2.06	38	270	26.85
0940	7.13	10.02	2.56	1.04	2.07	-175	280	26.88
0950	6.58	10.24	4.98	0.00	0.85	-255	270	26.56
1000	6.47	10.19	7.71	0.00	0.77	-268	260	26.50
1020	6.58	10.21	10.70	0.00	0.38	-290	260	26.02
1045	6.66	10.23	10.80	0.00	0.29	-298	260	25.95
1105	6.71	10.21	10.80	0.00	0.17	-301	260	25.99
1115	6.73	10.25	10.80	0.00	0.19	-303	260	25.99
1125	6.72	10.21	10.80	0.00	0.14	-305	260	25.99
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P6

Date: 3/9/2004 Sampling Personnel: D. Cofield, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 29.22 Depth to Well Bottom: 104.49' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 46.4 Estimated Purge Volume (liters): 78

Sample ID: GW03-015B-P6 Sample Time: 1530 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0900	5.22	7.85	0.85	4.65	9.12	118	100	29.14
0905	5.80	9.01	1.89	2.00	2.66	53	100	29.06
0910	5.36	9.33	1.99	1.56	2.32	-63	180	28.62
0920	5.63	9.83	1.89	1.04	1.43	-103	120	28.50
0930	5.64	9.72	1.69	2.05	1.30	-93	120	28.52
0940	5.61	9.60	1.60	2.43	1.36	-80	120	28.78
0950	5.64	9.51	1.580	2.46	1.31	-79	120	28.76
1000	5.68	9.52	1.49	2.41	1.21	-15	120	28.65
1010	5.63	9.65	1.14	4.28	1.47	-46	120	28.28
1020	5.71	9.70	1.08	4.57	1.43	-54	130	28.40
1030	5.72	9.86	1.10	4.66	1.59	-54	130	28.65
1050	5.73	9.13	1.08	4.82	1.41	-35	135	28.72
1110	5.82	9.51	0.97	5.37	1.74	-28	135	28.55
1135	6.74	9.74	0.77	5.87	1.78	-43	120	28.78
1155	6.67	9.61	0.74	5.81	1.75	-38	120	28.55
1215	6.13	9.60	0.73	5.85	1.69	-40	120	28.69
1235	6.55	9.21	0.72	6.06	2.43	-29	115	28.95
1255	6.59	9.10	0.63	6.56	2.20	-28	120	28.60
1315	6.52	9.11	0.63	6.44	1.99	-23	120	28.71
1340	6.56	9.52	0.60	6.64	2.00	-25	125	28.50
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015B-P6

Date: 3/9/2004 Sampling Personnel: D. Cofield, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 29.22 Depth to Well Bottom: 104.49' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 46.4 Estimated Purge Volume (liters): 78

Sample ID: GW03-015B-P6 Sample Time: 1530 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1400	6.54	9.52	0.65	6.64	2.01	-24	125	28.55
1430	5.88	9.72	0.55	7.28	2.49	-20	140	27.90
1440	5.94	9.73	0.55	7.14	2.45	-17	130	28.15
1450	6.01	9.56	0.56	7.09	2.38	-20	130	28.82
1505	6.14	9.54	0.57	6.83	1.95	-21	120	28.95
1515	6.15	9.55	0.60	6.78	1.90	-20	120	29.01
1525	6.16	9.61	0.61	6.61	2.01	-18	120	29.25
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-015C-P7

Date: 3/8/2004 Sampling Personnel: S. McCabe, J. Doerr Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 27.50 Depth to Well Bottom: 56.58' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 17.9 Estimated Purge Volume (liters): 20

Sample ID: GW03-015C-P7 Sample Time: 1125 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1035	7.35	7.79	49.90	5.39	239	54	300	27.50
1040	7.99	9.28	1.98	1.89	127.0	-166	300	27.61
1045	8.33	9.68	1.65	1.26	48.00	-216	320	27.00
1050	8.37	9.77	1.06	1.02	20.00	-234	300	26.96
1055	8.40	9.79	1.03	0.92	10.40	-243	320	26.96
1100	8.42	9.79	1.02	0.86	11.10	-242	310	26.96
1105	8.47	9.79	1.02	0.77	5.33	-252	320	26.97
1110	8.57	9.82	1.02	0.87	4.57	-256	330	26.91
1115	8.61	9.82	1.02	0.70	3.51	-260	330	26.92
1120	8.67	9.92	1.03	0.71	3.34	-265	340	26.89
1125	8.85	9.88	1.03	0.72	2.44	-270	330	26.86
1130	8.84	9.78	1.03	0.73	1.42	-273	320	26.86
1135	8.86	9.78	1.03	0.72	1.63	;-274	320	26.86
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P1

Date: 3/4/2004 Sampling Personnel: T. Burmeier, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.82' Depth to Well Bottom: 68.8' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 33.30 Estimated Purge Volume (liters): 68

Sample ID: GW03-016A-P1 Sample Time: 1015 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0803	5.22	6.61	2.35	0.84	15.6	92	500	14.90
0808	7.01	6.89	2.39	0.00	5.0	44	520	14.89
0818	7.34	7.39	1.60	1.91	2.0	6	530	14.89
0828	7.34	7.51	1.01	4.52	1.9	34	520	14.85
0838	7.40	7.59	0.667	5.17	2.0	45	520	14.84
0848	7.43	7.65	0.612	5.77	1.7	51	520	14.79
0858	7.46	7.70	0.575	6.02	1.6	53	530	14.75
0908	7.49	7.77	0.552	6.08	1.5	55	530	14.73
0918	7.52	7.75	0.553	6.22	1.0	56	520	14.73
0928	7.54	7.76	0.521	6.18	1.0	56	530	14.74
0938	7.55	7.83	0.520	6.20	1.0	57	540	14.84
0948	7.59	7.85	0.515	6.23	1.1	56	500	14.99
0958	7.60	7.89	0.511	6.37	1.0	57	500	15.09
1008	7.59	7.91	0.511	6.16	1.2	57	490	15.19
1013	7.61	7.88	0.516	6.20	1.2	57	500	15.24
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P2

Date: 3/5/2004 Sampling Personnel: T. Urban, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.65' Depth to Well Bottom: 131.93' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 72.40 Estimated Purge Volume (liters): 74

Sample ID: GW03-016A-P2 Sample Time: 1215 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0915	7.55	6.34	1.96	0.64	17.20	-179	400	14.60
0935	7.67	6.72	2.14	0.00	6.11	-240	380	14.65
0955	7.67	6.89	2.12	0.00	0.97	-256	400	14.65
1015	7.68	7.13	2.17	0.00	0.92	-265	370	14.65
1035	7.70	7.28	2.16	0.00	0.72	-269	380	14.63
1055	7.66	7.38	2.16	0.00	0.50	-272	400	14.63
1115	7.67	7.37	2.17	0.00	0.85	-274	410	14.80
1135	7.71	7.46	2.19	0.00	1.98	-276	410	15.00
1155	7.72	7.55	2.21	0.00	2.10	-278	410	15.20
1205	7.72	7.54	2.21	0.00	1.76	-278	410	15.20
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016A-P3

Date: 3/8/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.62' Depth to Well Bottom: 158.51' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 87.5 Estimated Purge Volume (liters): 39

Sample ID: GW03-016A-P3 Sample Time: 1230 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0855	6.98	3.66	11.7	5.52	14.2	-244	260	17.05
0915	7.10	4.35	24.4	0.00	18.3	-373	250	18.95
0935	7.07	4.47	28.1	0.00	35.3	-384	210	18.45
0955	7.07	4.68	28.8	0.00	44.2	-391	205	19.84
1015	7.06	4.64	27.6	0.00	62.9	-393	180	24.30
1035	7.03	4.94	29.4	0.00	55.0	-395	160	24.68
1055	7.03	4.93	29.2	0.00	44.8	-396	150	25.54
1110	7.04	4.90	28.7	0.00	36.2	-397	170	25.51
1130	7.04	4.98	28.5	0.00	33.2	-398	160	24.59
1150	7.05	5.12	28.2	0.00	27.8	-398	150	24.32
1210	7.04	5.12	28.3	0.00	27.0	-399	170	24.00
1230	7.05	5.12	28.0	0.00	22.3	-399	160	23.75
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P4

Date: 3/4/2004 Sampling Personnel: T. Burmeier, R. Pekarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.63' Depth to Well Bottom: 47.98' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 19.3 Estimated Purge Volume (liters): 29

Sample ID: GW03-016B-P4 Sample Time: 1420 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1324	8.62	4.80	1.52	7.27	69.2	-198	540	16.69
1329	8.48	4.50	1.34	0.00	9.7	-228	550	16.68
1334	8.50	4.49	1.24	0.00	2.9	-229	520	16.68
1339	8.47	4.46	1.09	0.10	2.2	-210	540	16.65
1344	8.43	4.46	0.993	0.50	2.1	-207	560	16.64
1349	8.42	4.45	0.925	0.90	2.1	-196	550	16.63
1354	8.37	4.44	0.693	1.50	2.1	-186	540	16.62
1359	8.34	4.44	0.661	2.00	2.1	-178	540	16.62
1404	8.31	4.43	0.631	2.30	2.3	-172	550	16.61
1414	8.32	4.40	0.600	2.40	2.5	-162	540	16.61
1419	8.32	4.40	0.588	2.50	2.6	-158	540	16.59
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P5

Date: 3/5/2004 Sampling Personnel: D. Cofield, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.47' Depth to Well Bottom: 76.75' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 38.4 Estimated Purge Volume (liters): 10

Sample ID: GW03-016B-P5 Sample Time: 0945 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0840	7.55	6.58	0.941	0.60	4.41	-238	310	15.72
0845	7.47	6.30	0.946	0.00	4.68	-254	250	18.35
0850	7.52	6.31	0.958	0.00	3.66	-269	130	19.60
0855	7.55	6.30	0.987	0.00	4.18	-280	220	20.29
0900	7.54	6.35	1.35	0.00	5.24	-284	130	21.05
0910	7.51	6.37	1.42	0.00	3.64	-291	175	21.92
0920	7.53	6.41	1.38	0.00	3.64	-290	150	22.50
0930	7.54	6.46	1.37	0.00	3.64	-287	150	22.90
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016B-P6

Date: 3/9/2004 Sampling Personnel: J. Doerr, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 15.93' Depth to Well Bottom: 102.00' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 53.01 Estimated Purge Volume (liters):

Sample ID: GW03-016B-P6 Sample Time: 1645 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1425	8.45	4.98	1.28	4.95	5.91	-194	440	15.86
1445	8.11	5.14	1.21	0.00	2.54	-227	400	15.85
1500	8.05	5.06	1.24	0.49	1.86	-212	440	16.08
1515	8.02	5.05	1.18	1.23	1.17	-202	420	16.35
1530	8.03	4.98	1.11	1.72	1.30	-191	400	16.63
1545	7.97	5.03	1.08	2.06	1.52	-184	350	16.72
1600	7.89	4.96	1.06	2.26	1.18	-176	380	16.78
1615	7.90	4.91	1.06	2.37	1.48	-172	360	17.11
1630	7.88	4.97	1.06	2.46	1.12	-167	360	17.29
1645	7.89	4.97	1.03	2.47	1.28	-167	360	17.34
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016C-P7

Date: 3/4/2004 Sampling Personnel: M. Nemeth, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 16.00 Depth to Well Bottom: 31.81' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 9.8 Estimated Purge Volume (liters): 12

Sample ID: GW03-016C-P7 Sample Time: 0830 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0800	6.69	4.98	0.413	9.33	24.6	111	400	16.00
0805	7.08	4.07	0.410	9.04	5.02	109	440	15.95
0810	7.28	3.89	0.404	8.84	4.64	115	470	15.92
0815	7.53	3.87	0.398	8.76	4.56	113	480	15.88
0823	7.64	3.88	0.396	8.70	4.34	113	475	15.86
0826	7.67	3.86	0.395	8.66	4.32	113	500	15.84
0830	7.69	3.86	0.395	8.70	4.31	113	500	15.83
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-016C-P8

Date: 3/4/2004 Sampling Personnel: M. Nemeth, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: Low Flow Peristaltic Pump (GeoPump 2) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 14.55' Depth to Well Bottom: 88.61' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 45.7 Estimated Purge Volume (liters):

Sample ID: GW03-016C-P8 Sample Time: 1130 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0945	9.98	5.44	0.517	2.19	886	56	450	14.81
0950	8.82	5.81	0.488	0.00	20.5	42	470	14.80
0955	9.27	5.97	0.499	0.00	7.27	-2	500	14.89
1000	9.36	6.03	0.494	0.00	18.6	-10	450	14.91
1010	9.40	6.16	0.487	0.00	43.0	-14	450	15.01
1020	9.41	6.21	0.487	0.00	48.9	-18	450	15.11
1040	9.11	6.20	0.490	0.00	11.8	-24	450	15.22
1055	8.62	6.25	0.492	0.00	3.88	-48	450	15.32
1110	8.36	6.29	0.492	0.00	2.53	-59	450	15.41
1120	8.29	6.28	0.482	0.00	2.31	-61	450	15.52
1130	8.22	6.29	0.487	0.00	1.65	-60	450	15.59
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Water was initially red-brown in color and opaque.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P1

Date: 2/24/2004 Sampling Personnel: T. Burmeier, M. Nemeth Company: URS Corporation

Purging/ Sampling Device: Monsoon Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 11.14 Depth to Well Bottom: 121.95' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 66.5 Estimated Purge Volume (liters): 136

Sample ID: GW03-017A-P1 Sample Time: 1215 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0943	6.88	5.05	4.39	2.24	185.00	-158	460	17.25
0948	6.93	5.32	4.42	1.66	15.20	-174	200	19.11
0958	6.95	5.45	4.39	1.35	2.10	-194	620	22.99
1008	6.98	5.90	4.39	0.35	-	-207	410	26.95
1018	7.00	6.44	4.39	0.00	-	-220	700	31.87
1028	7.03	7.29	4.36	0.00	-	-238	700	42.80
1038	7.04	7.65	4.32	0.00	-	-254	600	50.70
1048	7.07	7.19	4.43	0.00	-	-269	520	55.31
1100	7.09	8.14	4.08	0.00	-	-289	600	64.22
1110	7.09	9.84	4.09	0.00	8.60	-298	320	72.53
1120	7.10	9.57	4.04	0.00	6.71	-312	750	85.09
1130	7.04	9.29	4.34	0.00	3.48	-316	570	87.27
1140	7.00	9.24	4.50	0.00	1.74	-332	700	87.57
1150	7.01	10.94	4.40	0.00	16.40	-336	630	89.79
1200	7.05	10.69	4.20	0.00	7.09	-334	300	89.91
1210	7.01	10.66	4.48	0.00	3.38	-337	600	91.20
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Had to keep increasing flow rate on controller; flow would start high and decrease as drawdown increased. Purge water was gray with a sulfur odor.
Pump pulled at 1430, pump ran at surface but would not pump water from well. Removed check valve, pump still would not work. Removed pump at 1530, needs to be replaced.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P2

Date: 3/1/2004 Sampling Personnel: G. Kisluk, T. Urban Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 12.22 Depth to Well Bottom: 139.38' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 77.3 Estimated Purge Volume (liters): 80

Sample ID: GW03-017A-P2 Sample Time: 1130 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0820	11.82	5.53	4.66	9.16	8.89	-144	360	12.64
0835	12.10	6.15	4.69	3.07	14.20	-176	370	12.37
0850	12.12	6.45	3.20	0.40	15.10	-297	400	11.87
0905	12.27	6.68	3.34	0.31	8.56	-320	420	11.62
0920	12.40	6.84	3.48	0.28	2.51	-337	420	11.41
0935	12.54	7.01	3.56	0.28	1.58	-349	400	11.18
0950	12.62	7.12	3.67	0.27	1.54	-355	410	11.02
1005	12.62	7.20	3.73	0.25	1.81	-361	410	11.00
1020	12.54	7.25	3.78	0.25	1.66	-363	420	10.89
1035	12.55	7.29	3.80	0.25	1.66	-366	420	10.72
1050	12.52	7.34	3.83	0.25	1.62	-366	420	10.66
1105	12.50	7.42	3.86	0.25	1.68	-365	420	10.45
1120	12.51	7.42	3.85	0.24	2.07	-366	440	10.50
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P3

Date: 3/4-5/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: HDPE Tubing with Foot Valve (hand-pumping) Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 116.11 Depth to Well Bottom: 169.92' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 33.0 Estimated Purge Volume (liters): 22

Sample ID: GW03-017A-P3 Sample Time: Not sampled QA/QC: None

Sample Parameters: TCL VOCs.

PURGE PARAMETERS

TIME	pH	TEMP (°C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	GALLONS PURGED	DEPTH TO WATER (btor)
1600	10.04	7.71	42.70	10.34	746.0	-215		-
1610	9.38	9.73	19.7	2.76	424	-255	6	148.20
0815	Not enough water to fill tubing to surface							
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Recovered only 2 x 40ml vials.

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017A-P4

Date: 2/24/2004 Sampling Personnel: D. Cofield, R. Petarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.92 Depth to Well Bottom: 59.44' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 30.6 Estimated Purge Volume (liters): 30

Sample ID: GW03-017A-P4 Sample Time: 1105 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0927	9.94	6.63	1.34	3.00	164.0	202	425	10.06
0948	8.86	6.52	1.12	3.38	93	223	290	10.03
0957	9.26	6.53	0.99	4.53	107.0	221	300	9.98
1012	9.71	6.32	0.620	5.36	102.0	216	310	9.04
1029	9.53	6.29	0.554	6.21	85.9	219	325	9.88
1044	9.56	6.29	0.537	6.30	82.0	218	320	9.89
1059	9.38	6.49	0.009	6.75	62.8	219	310	9.93
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Strong sulfury odor

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017B-P5

Date: 2/24/2004 Sampling Personnel: D. Cofield, R. Petarski Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.92 Depth to Well Bottom: 83.15' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 44.8 Estimated Purge Volume (liters): 47

Sample ID: GW03-017B-P5 Sample Time: 1500 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1315	7.65	6.16	0.950	1.35	27.00	-17	460	9.90
1325	7.77	5.70	0.608	4.44	45.60	-7	460	9.89
1335	7.76	5.10	0.610	4.10	30.10	-7	458	9.90
1349	7.82	5.62	0.554	5.01	39.30	3.0	470	9.74
1350	7.88	5.53	0.511	5.65	3.00	13.0	450	9.73
1400	7.86	5.54	0.510	5.54	3.90	10.0	450	9.72
1415	7.89	5.54	0.500	5.49	3.00	11.0	453	9.74
1430	7.92	5.42	0.476	6.27	1.63	26.0	430	9.92
1445	7.96	5.37	0.462	6.44	1.60	29.0	450	9.99
1500	7.95	5.36	0.459	6.68	1.44	35.0	440	9.95
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017B-P6

Date: 2/26/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.84 Depth to Well Bottom: 104.33 Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 57.7 Estimated Purge Volume (liters): 60

Sample ID: GW03-017B-P6 Sample Time: 1130 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0905	5.72	6.07	0.445	12.28	243.00	101	390	10.84
0915	7.01	6.06	0.420	10.43	15.10	50	380	10.76
0925	7.30	6.05	0.413	10.82	5.79	43	400	10.68
0935	7.34	6.11	0.411	10.78	6.51	43	370	10.60
0945	7.37	6.06	0.410	10.28	9.69	43	380	10.59
0955	7.38	6.05	0.411	9.93	14.80	42	400	10.55
1005	7.40	6.09	0.410	10.17	12.90	42	400	10.51
1015	7.42	6.10	0.413	9.72	9.85	41	380	10.52
1030	7.44	6.17	0.417	9.75	6.21	39	390	10.40
1040	7.43	6.08	0.416	9.91	7.37	40	390	10.36
1050	7.45	6.14	0.417	10.01	6.22	39	400	10.30
1100	7.44	6.02	0.417	9.95	5.51	39	390	10.28
1110	7.46	6.12	0.417	10.16	5.30	38	400	10.25
1120	7.47	6.03	0.418	9.55	6.15	37	390	10.23
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P7

Date: 2/24/2004 Sampling Personnel: T. Urban, G. Kisluk Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.15 Depth to Well Bottom: 34.30' Well Diameter: 2-Inch Screen Length: 10'

Casing Type: PVC Volume in 1 Well Casing (liters): 14.9 Estimated Purge Volume (liters): 20

Sample ID: GW03-017C-P7 Sample Time: 0950 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli (Fecal Coliform); Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
0856	7.53	6.26	0.462	8.08	>999	107	400	10.28
0905	7.84	5.85	0.367	3.51	721	71	430	10.25
0910	7.98	5.64	0.368	4.38	383	57	425	10.31
0915	8.01	5.51	0.370	4.51	278.0	54	430	10.30
0920	8.02	5.47	0.373	4.45	198.0	52	410	10.32
0925	8.17	5.39	0.375	4.25	151.0	47	425	10.32
0930	8.17	5.29	0.376	4.70	109.0	44	410	10.33
0935	8.15	5.20	0.380	4.63	81.4	42	430	10.35
0940	8.14	5.21	0.379	5.44	63.3	41	410	10.37
0945	8.23	5.22	0.380	5.66	62.2	41	410	10.31
0950	8.28	5.11	0.381	5.39	64.3	40	410	10.30
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P8

Date: 2/24/2004 Sampling Personnel: T. Urban, G. Kisluk, J Doerr Company: URS Corporation

Purging/ Sampling Device: GeoPump 2 peristaltic Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 9.75 Depth to Well Bottom: 52.58' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 26.4 Estimated Purge Volume (liters): 30

Sample ID: GW03-017C-P8 Sample Time: 1500 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1340	12.02	6.80	1.240	8.56	64.80	-305	470	9.82
1345	12.62	7.59	0.440	4.17	374	-316	420	9.81
1350	11.27	7.72	0.429	2.29	190	-271	410	9.80
1357	12.05	7.77	0.422	2.58	88.5	-260	440	9.76
1403	10.94	7.82	0.415	1.64	61.1	-253	440	9.75
1408	10.87	7.81	0.411	1.53	46.9	-250	440	9.75
1413	10.90	7.78	0.403	1.49	38.0	-251	440	9.75
1418	10.90	7.77	0.397	1.43	30.1	-257	440	9.75
1423	10.90	7.76	0.406	2.20	27.4	-250	440	9.80
1428	10.96	7.78	0.404	2.31	57.8	-252	440	9.92
1433	10.94	7.83	0.404	2.33	25.4	-243	430	9.92
1438	10.84	7.82	0.404	2.23	20.5	-247	430	9.98
1442	10.80	7.78	0.404	2.21	25.4	-246	440	10.00
1448	10.87	7.81	0.404	2.15	21.8	-248	430	10.01
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks:

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LOW FLOW GROUNDWATER PURGING/SAMPLING LOG

Project: 11171932.00006 Site: NYPA Groundwater Sampling Well I.D.: GW03-017C-P9

Date: 12/17/2003 2/24-25/2004 Sampling Personnel: T. Urban, G. Kisluk, S. Tivnan Company: URS Corporation

Purging/ Sampling Device: Tsunami Submersible Pump Tubing Type: HDPE Pump/Tubing Inlet Location: Screen midpoint

Measuring Point: Below Top of Riser Initial Depth to Water: 10.46 Depth to Well Bottom: 95.60' Well Diameter: 2-Inch Screen Length: 5'

Casing Type: PVC Volume in 1 Well Casing (liters): 65.4/34 Estimated Purge Volume (liters): 82

Sample ID: GW03-017C-P9 Sample Time: 2/26/04-0815 QA/QC: None

Sample Parameters: TCL VOCs; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8- TCDD); Metals (Total Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, Sodium) and Total Mercury; TOC; TDS/TSS/CL^-/SO_4; Alkalinity (Carb+Bicarb); Total Hardness; Total Coliforms/ E. Coli Heterotrophic Plate Count; Methyl Mercury

PURGE PARAMETERS

TIME	pH	TEMP (^{0}C)	COND. (mS/cm)	DISS. O_2 (mg/l)	TURB. (NTU)	Eh (mV)	FLOW RATE (ml/min.)	DEPTH TO WATER (btor)
1106	9.27	6.76	4.81	0.75	464.0	-239	400	15.62
1116	10.32	7.12	4.74	0.41	276.0	-292	380	17.38
1135	11.28	6.98	4.78	0.19	19.7	-325	225	28.17
1154	11.31	7.25	4.65	0.16	21.8	-336	500	37.38
1215	11.17	7.23	4.61	0.27	17.0	-339	430	44.82
1235	11.11	7.90	4.51	0.17	9.6	-346	370	56.00
1300	Pump fails, replace and continue on 2/25							
0900	10.50	6.1	5.10	2.46	>999	-323	700	43.72
0910	11.16	6.33	4.93	0.40	52.3	-359	560	48.42
0915	11.36	5.99	4.96	0.32	36.2	-360	240	51.39
0920	11.43	6.51	4.92	0.32	30.5	-361	300	54.35
0925	11.48	6.77	4.87	0.28	65.7	-363	450	57.82
0930	11.58	6.90	4.24	0.28	53.5	-364	540	63.03
0940	11.77	6.21	4.66	0.23	35.6	-366	430	69.69
0950	11.07	7.07	4.02	0.20	96.9	-363	450	81.60
1000	11.52	7.30	3.72	1.06	46.0	-333	480	90.08
1010	11.44	7.47	4.49	0.56	104.0	-355	560	95.60
Tolerance:	**0.1**	**---**	**3%**	**10%**	**10%**	**+ or - 10**	**---**	

Information: WATER VOLUMES--0.75 inch diameter well = 87 ml/ft; 1 inch diameter well = 154 ml/ft; 2 inch diameter well = 617 ml/ft; 4 inch diameter well = 2470 ml/ft ($vol_{cyl} = \pi r^2 h$)

Remarks: Flow would not remain consistant, had to keep adjusting flow.
Purge water was gray/black.

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APPENDIX J

PACKER TEST RESULTS

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Packer Test Results Well GW03-001

Well: 001	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
6	-25.8	-20.2	10	7.5
5	-30.8	-25.2	20	0.1
4	-35.8	-30.2	20	0
3	-40.8	-35.2	20	0
2	-40.2	-45.8	20	0
1	-45.2	-50.8	30	0

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Packer Test Results Well GW03-003

Well: 003	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
4	-22.7	-43.8	22	0.14
3	-27.8	-43.8	20	0
2	-33.0	-43.8	20	0
1	-38.0	-43.8	20	0

Note: single packer used for all tests

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Packer Test Results Well GW03-005

Well: 005	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
8	-13.9	-19.5	10	6.3
7	-18.9	-24.5	10	7.5
6	-23.9	-29.5	10	0
5	-28.9	-34.5	10	0
4	-33.9	-39.5	20	0
3	-38.9	-44.5	20	0
2	-43.9	-49.5	20	0
1	-48.9	-54.5	30	0.1

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Packer Test Results Well GW03-007

Well: 007	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
15	-19.7	-25.3	10	1.1
14	-24.7	-30.3	10	9.5
13	-29.7	-35.3	20	0.1
12	-34.7	-40.3	20	0.4
11	-39.7	-45.3	20	0.3
10	-44.7	-50.3	20	0.2
9	-49.7	-55.3	40	11.9
8	-54.7	-60.3	30	0
7	-59.7	-65.3	30	0
6	-64.7	-70.3	30	0
5	-69.7	-75.3	40	0
4	-74.7	-80.3	40	0
3	-79.7	-85.3	55	1.5
2	-84.7	-90.3	50	0
1	-89.7	-95.3	50	0.2

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Packer Test Results Well GW03-010

Well: 010	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
25	-18.6	-24.2	10	12.4
24	-23.6	-29.2	10	12.0
23	-28.6	-34.2	20	13.6
22	-33.6	-39.2	20	12.6
21	-38.6	-44.2	20	12.1
20	-43.6	-49.2	30	13.3
19	-48.6	-54.2	30	12.7
18	-53.6	-59.2	30	9.6
17	-58.6	-64.2	30	9.3
16	-63.6	-69.2	40	4.7
15	-68.6	-74.2	40	0.5
14	-73.6	-79.2	40	0
13	-78.6	-84.2	40	6.8
12	-83.6	-89.2	40	5.5
11	-88.6	-94.2	45	10.2
10	-93.6	-99.2	40	10.8
9	-98.6	-104.2	50	12.1
8	-103.6	-109.2	50	7.4
7	-108.6	-114.2	60	13.1
6	-113.6	-119.2	60	0
5	-118.6	-124.2	50	0
4	-123.6	-129.2	60	0
3	-129.1	-134.7	60	0
2	-134.1	-139.7	60	0.0
1	-139.1	-144.7	60	0

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Packer Test Results Well GW03-011

Well: 011	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
21	-32.4	-38	20	11.9
20	-37.4	-43	20	11.4
19	-42.4	-48	20	13
18	-47.4	-53	30	11.6
17	-52.4	-58	30	5.9
16	-57.4	-63	30	7.3
15	-62.4	-68	30	0.4
14	-67.4	-73	30	7.5
13	-72.4	-78	40	0
12	-77.4	-83	40	0
11	-82.4	-88	40	0.2
10	-87.4	-93	40	0.1
9	-92.4	-98	50	0.2
8	-97.4	-103	50	11.5
7	-102.4	-108	50	10.8
6	-107.4	-113	50	11.5
5	-112.4	-118	50	11.8
4	-117.4	-123	60	0
3	-122.4	-128	60	0.2
2	-127.4	-133	60	0.1
1	-132.4	-138	60	0.1

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Packer Test Results Well GW03-013

Well: 013	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
19	-35.5	-41.1	10	9.6
18	-39.5	-45.1	20	12.5
17	-44.5	-50.1	20	8.1
16	-49.5	-55.1	20	7.7
15	-54.5	-60.1	20	2.7
14	-59.5	-65.1	20	0.1
13	-64.5	-70.1	40	11.4
12	-68.1	-73.7	20	0.6
	-83.1	-88.7	50	10
10	-73.1	-78.7	50	10.4
9	-78.1	-83.7	30	1.1
8	-87.8	-93.4	30	0
7	-92.8	-98.4	40	0
6	-97.8	-103.4	40	0
5	-102.8	-108.4	40	0
4	-107.8	-113.4	40	0
3	-112.8	-118.4	40	0
2	-117.8	-123.4	40	0
1	-122.8	-128.4	40	0

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Packer Test Results Well GW03-015

Well: 015	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
21	-48.6	-54.2	30	12.2
20	-53.6	-59.2	30	0.1
19	-58.6	-64.2	30	13.2
18	-63.6	-69.2	40	2.9
17	-68.6	-74.2	40	4.0
16	-73.6	-79.2	40	12.4
15	-78.6	-84.2	40	12.5
14	-83.6	-89.2	40	11.8
13	-88.6	-94.2	40	0.3
12	-93.6	-99.2	40	0
11	-98.6	-104.2	60	13.8
10	-103.6	-109.2	55	0.1
9	-108.6	-114.2	50	0
8	-113.6	-119.2	65	0.9
7	-118.6	-124.2	65	0.1
6	-129.2	-123.6	60	0.2
5	-128.6	-134.2	40	0
4	-133.6	-139.2	60	0.1
3	-138.6	-144.2	60	0
2	-143.6	-149.2	70	0.2
1	-148.6	-154.2	60	0

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Packer Test Results Well GW03-016

Well: 016	Packer Interval				
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)	
31	-23.6	-29.2	10	10.2	
30	-27.6	-33.2	10	9.2	
29	-33.6	-39.2	10	9.3	
28	-37.6	-43.2	10	8.9	
27	-42.6	-48.2	10	9.8	
26	-47.6	-53.2	20	0.9	
25	-52.6	-58.2	20	0	
24	-57.6	-63.2	20	9.2	
23	-62.6	-68.2	30	11.2	
22	-67.6	-73.2	40	12.3	
21	-72.6	-78.2	40	0.2	
20	-77.6	-83.2	50	13.4	
19	-82.6	-88.2	60	7.9	
18	-87.6	-93.2	60	15.8	
17	-92.6	-98.2	60	13.2	
16	-97.6	-103.2	60	5.9	
15	-102.6	-108.2	50	0	
14	-107.6	-113.2	60	12.8	
13	-112.6	-118.2	60	8.1	
12	-107.6	-113.2	60	8.5	
11	-112.6	-118.2	60	12.2	
10	-117.6	-123.2	60	12.2	retest
8/9	-122.6	-128.2	80	13.3	retest
7/8	-127.6	-133.2	60	11	retest
10	-127.6	-133.2	60		
9	-119.8	-125.4	60	0	
8	-124.8	-130.4	60	0	
7	-129.8	-135.4	50	16.8	
6	-134.8	-140.4	60	15.8	
5	-139.8	-145.4	60	0	
4	-144.8	-150.4	60	0	
3	-149.8	-155.4	60	0.1	
2	-154.8	-160.4	60	3.0	
1	-158	-164	60	1.5	

Notes: Test 1- single packer assembly used for this interval

Test 12- pulled out of hole to check packers.
Miscount of piping, caused later recalculation of test depths

Test 7/8,8/9 and 10 were retested after a kink was found in piping that restricted water flow. Low readings in tests 8 and 9 were erroneous

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Packer Test Results Well GW03-017

Well: 017	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
29	-31.3	-36.9	10	8.1
28	-36.3	-41.9	20	10.2
27	-41.3	-46.9	20	0.8
26	-46.3	-51.9	20	4.3
25	-51.3	-56.9	20	9
24	-56.3	-61.9	30	11.1
23	-61.3	-66.9	30	0.5
22	-66.3	-71.9	40	0.5
21	-71.3	-76.9	40	0.5
20	-76.3	-81.9	40	11.5
19	-81.3	-86.9	40	0.3
18	-86.3	-91.9	50	0.4
17	-91.3	-96.9	50	7.4
16	-96.3	-101.9	50	11.8
15	-101.3	-106.9	50	2.4
14	-106.3	-111.9	50	0.2
13	-111.3	-116.9	50	0.3
12	-116.3	-121.9	60	0.4
11	-121.3	-126.9	60	1
10	-126.3	-131.9	60	11.8
9	-131.3	-136.9	60	0.1
8	-136.3	-141.9	60	0.1
7	-141.3	-146.9	60	0.4
6	-146.3	-151.9	70	0.1
5	-151.3	-156.9	70	0
4	-156.3	-161.9	70	0.8
3	-161.3	-166.9	70	0
2	-166.3	-171.9	70	0.1
1	-171.3	-176.9	70	0.1

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APPENDIX K

NYPA BEDROCK PIEZOMETER DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

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FIGURE 1

GW03-001, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

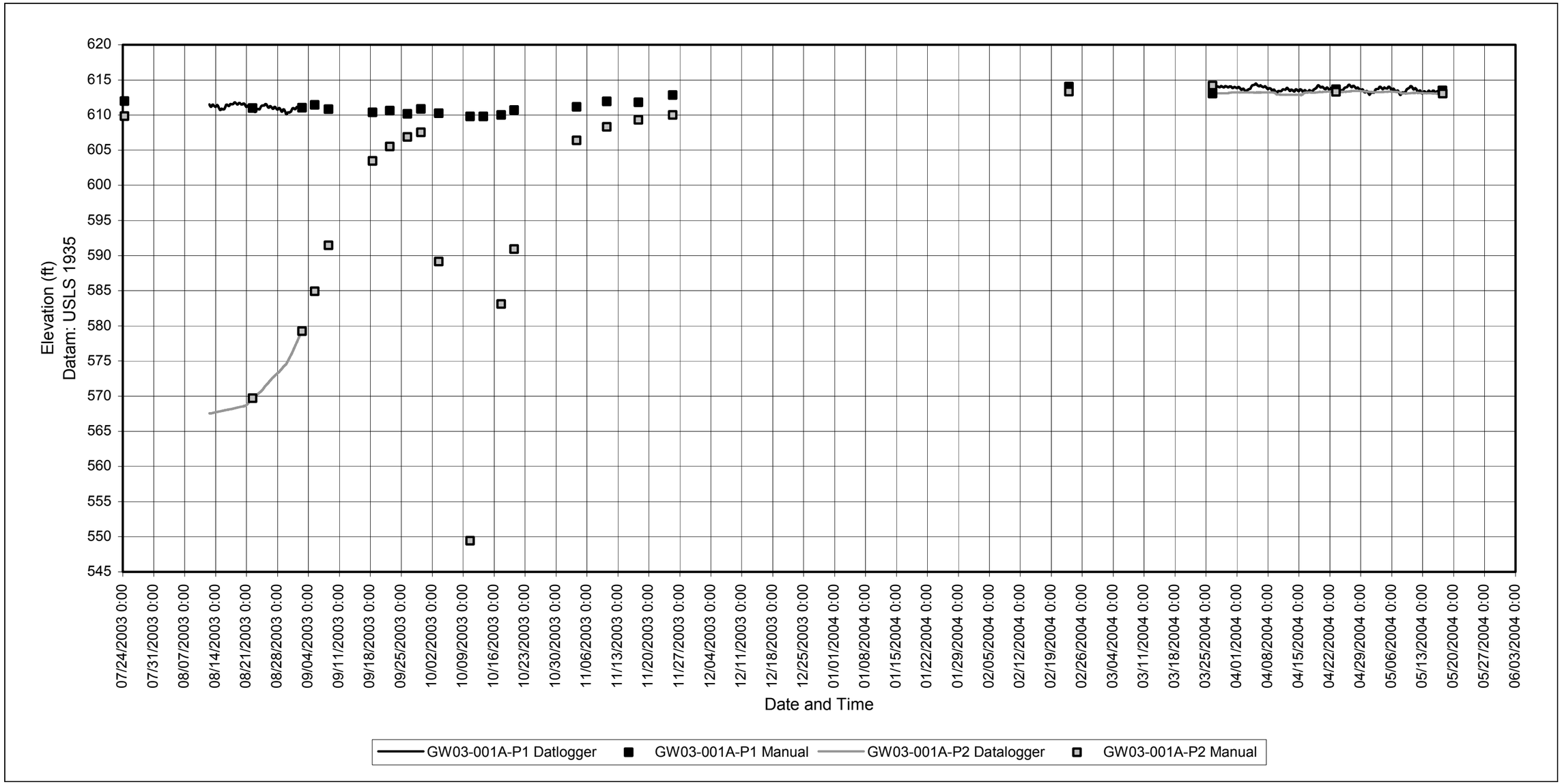

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FIGURE 2

GW03-002, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS. JULY-DECEMBER 2003

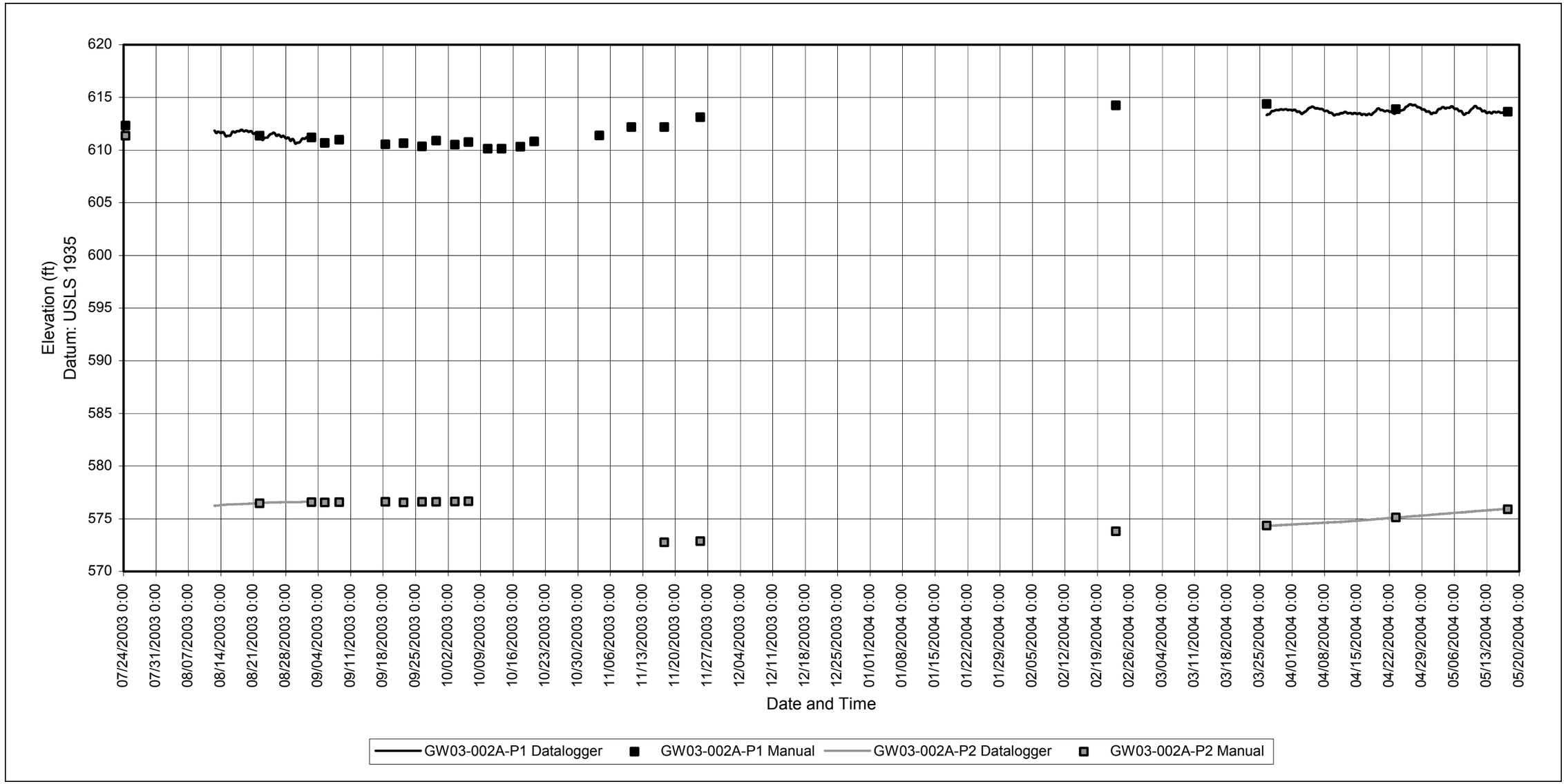

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FIGURE 3

GW03-003, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

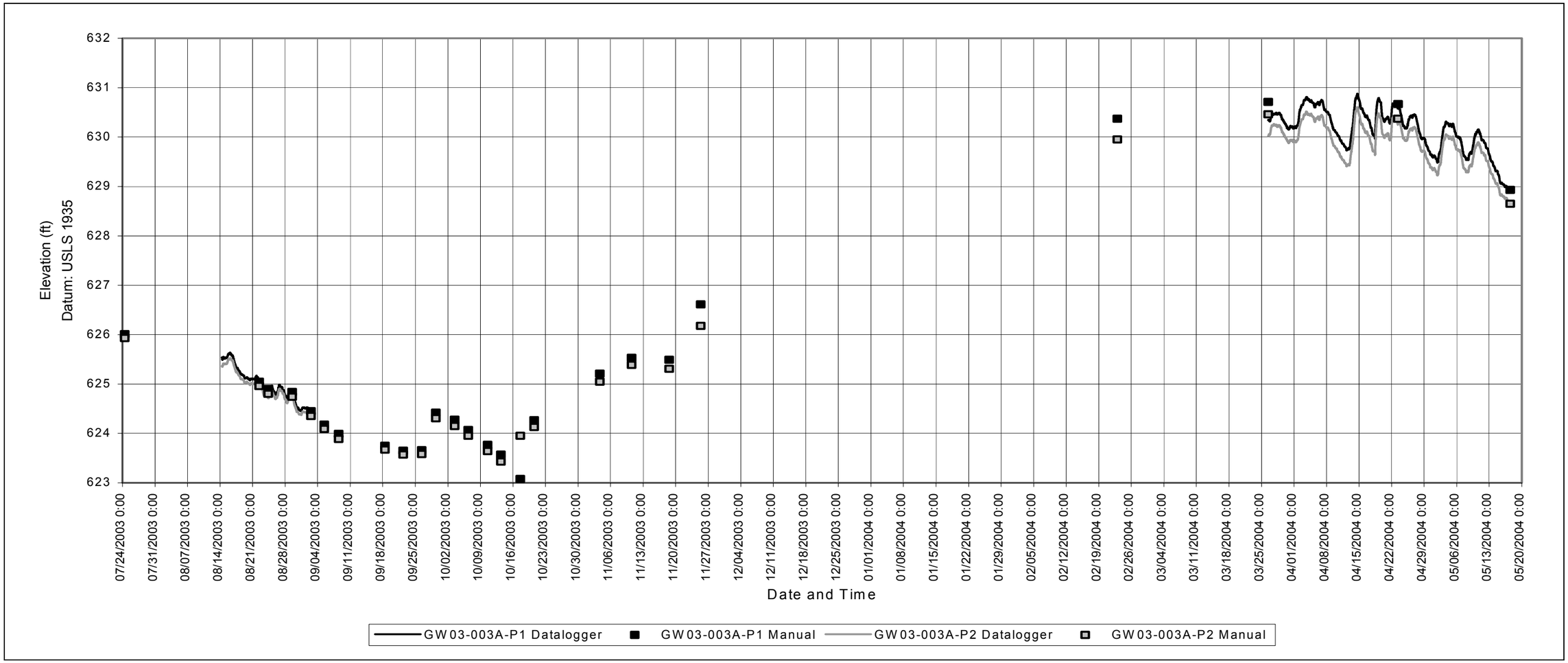

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FIGURE 4

GW03-004, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

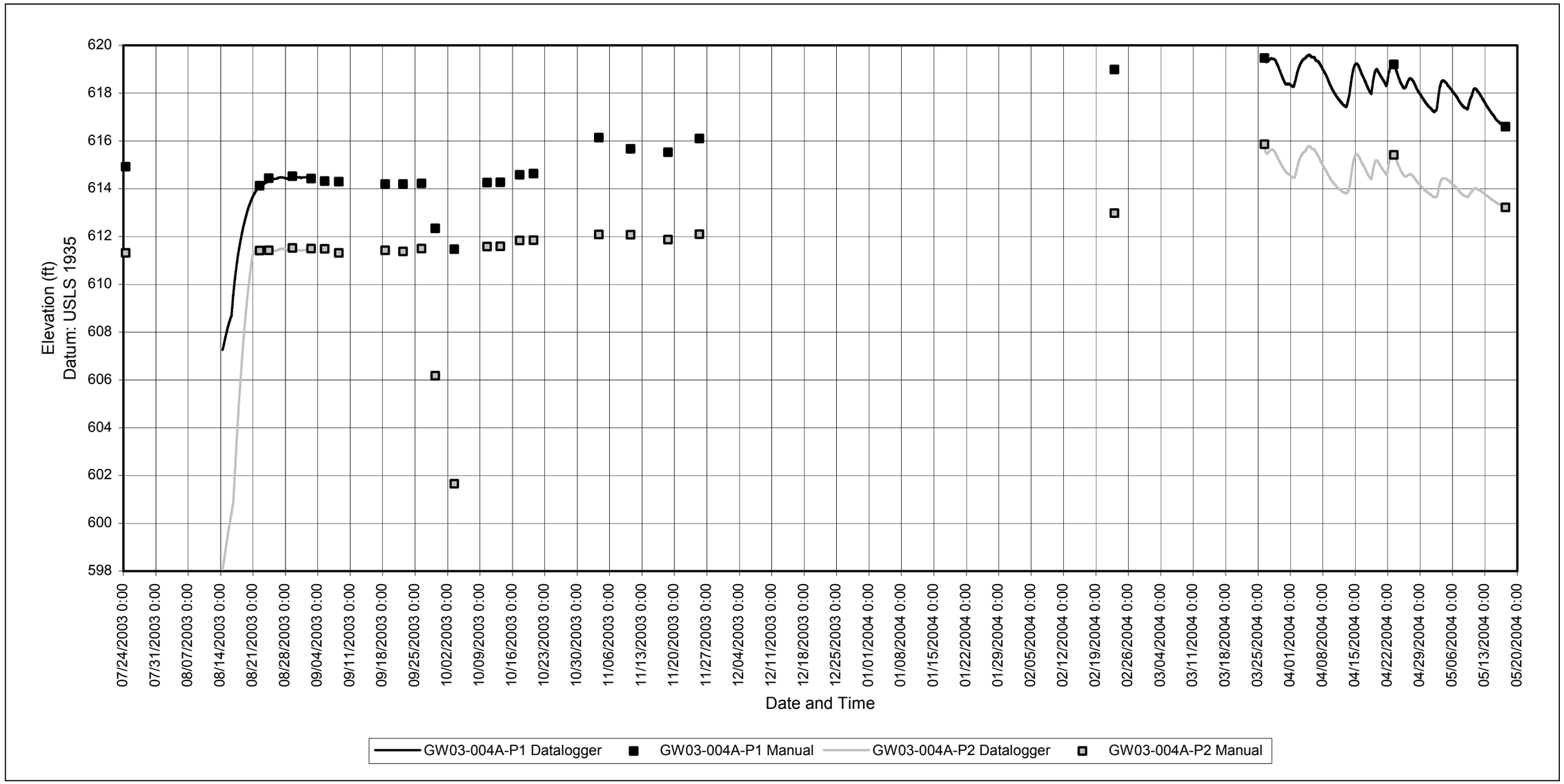

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FIGURE 5

GW03-005, DATALOGGER AND MANUAL GROUNDWATER ELEVATION, JULY - NOVEMBER 2003

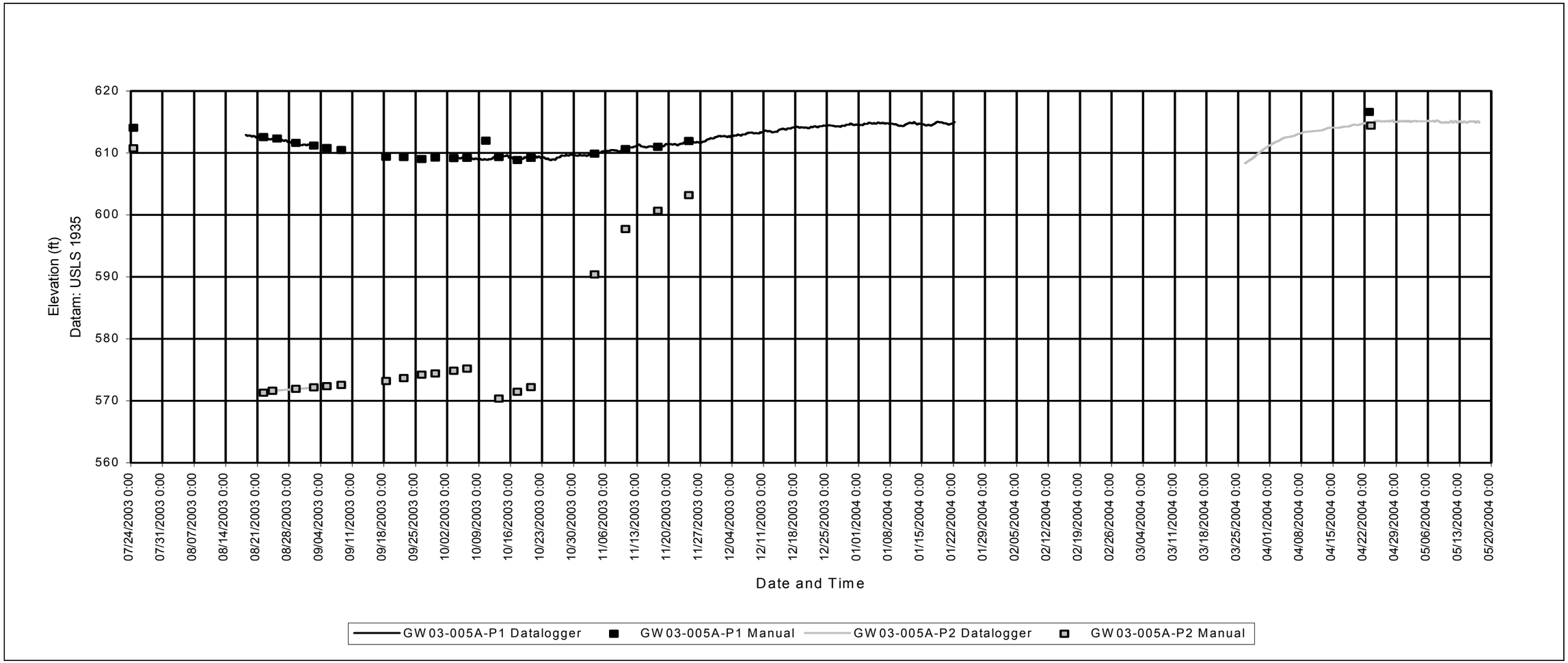

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FIGURE 6

GW03-006, DATALOGGER AND MANUAL GROUNDWATER ELEVATION, JULY-DECEMBER 2003

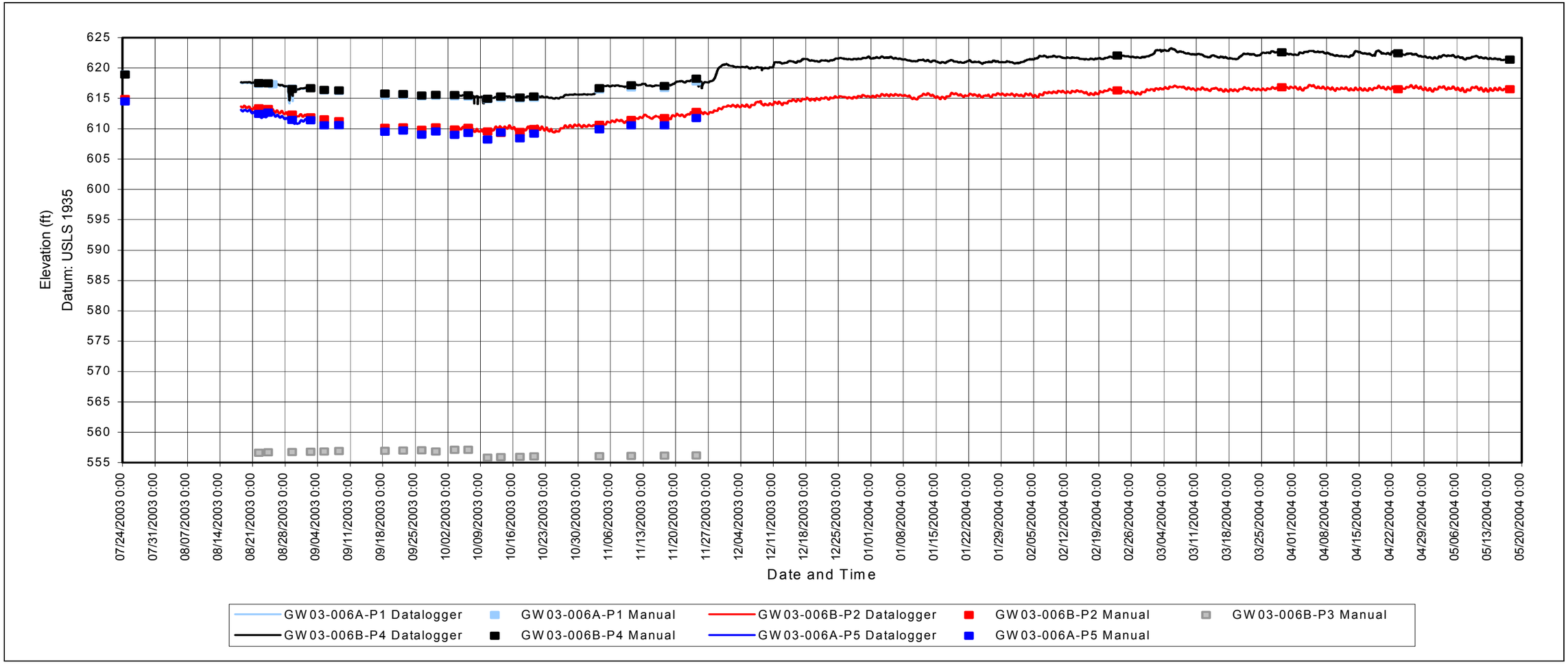

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FIGURE 7

GW03-007, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

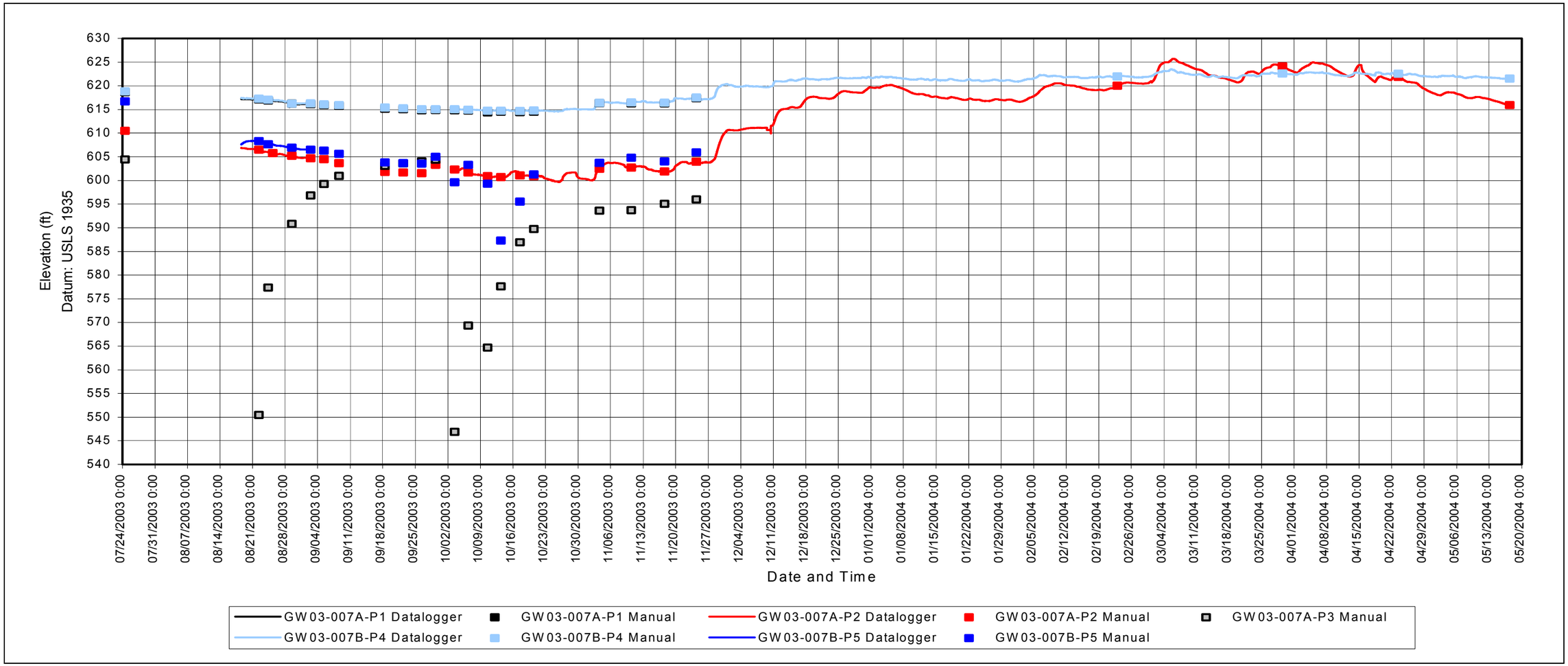

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FIGURE 8

GW03-008, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

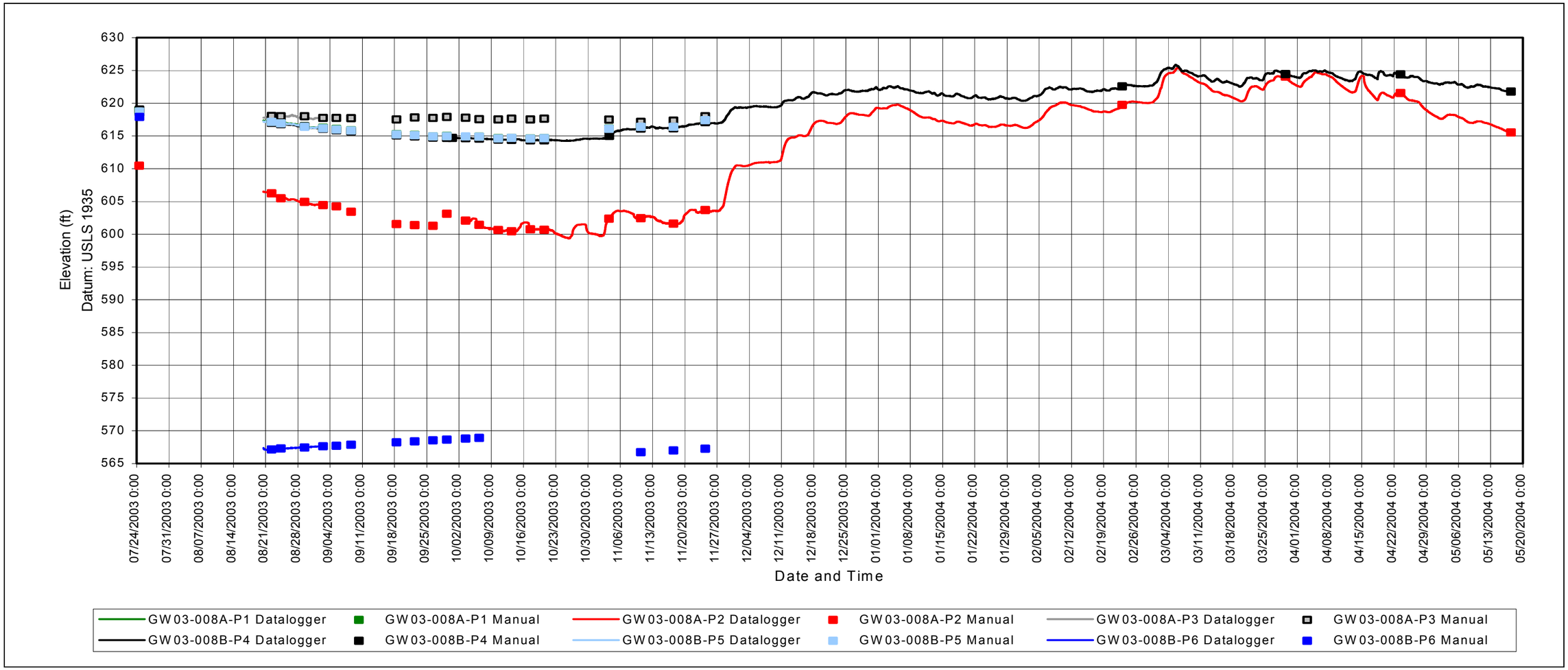

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FIGURE 9

GW03-009, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

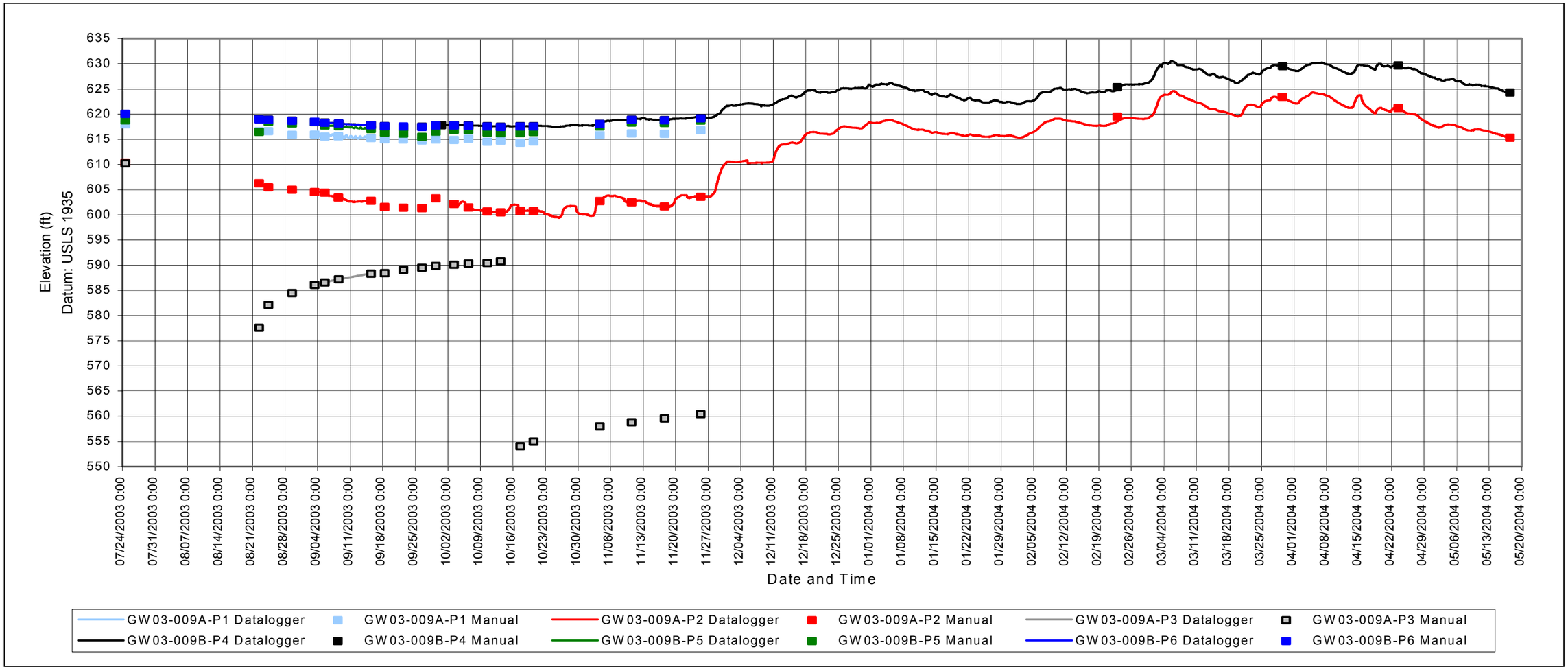

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FIGURE 10

GW03-010, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

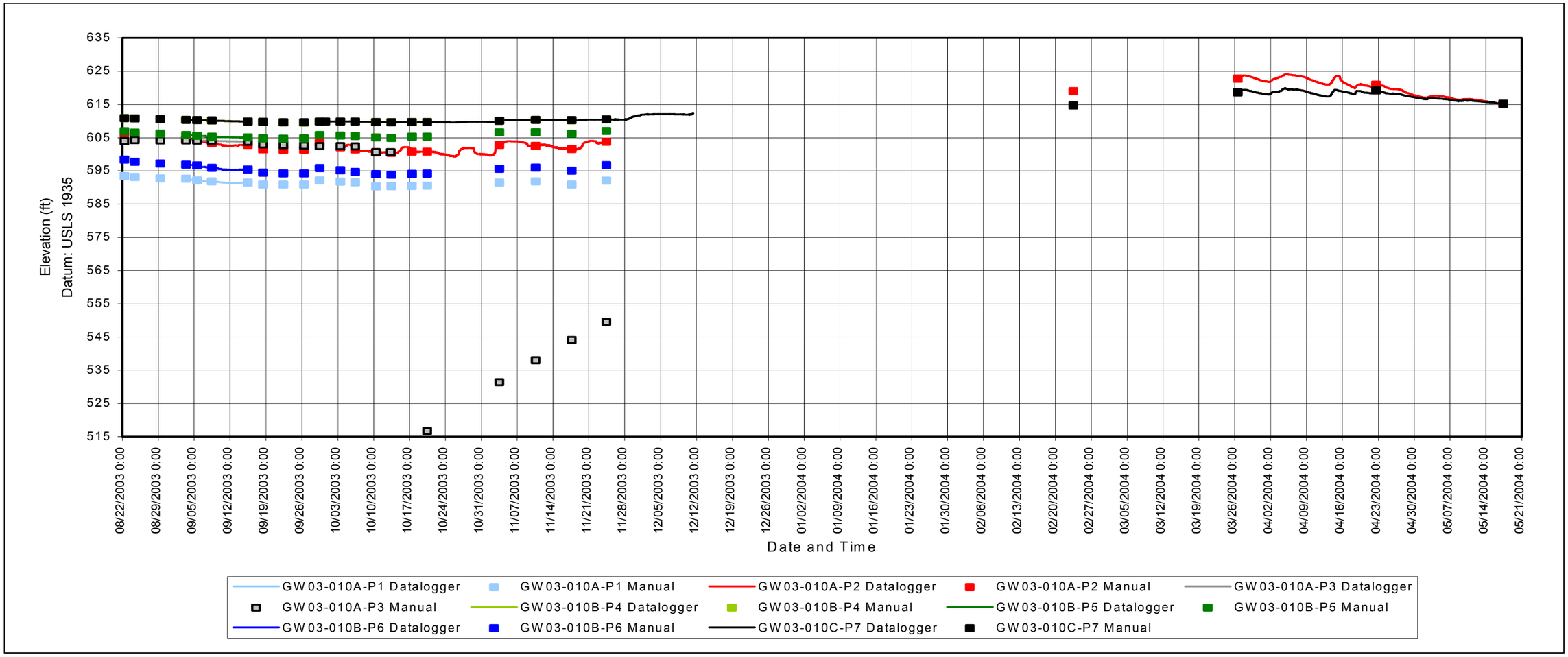

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FIGURE 11

GW03-011, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

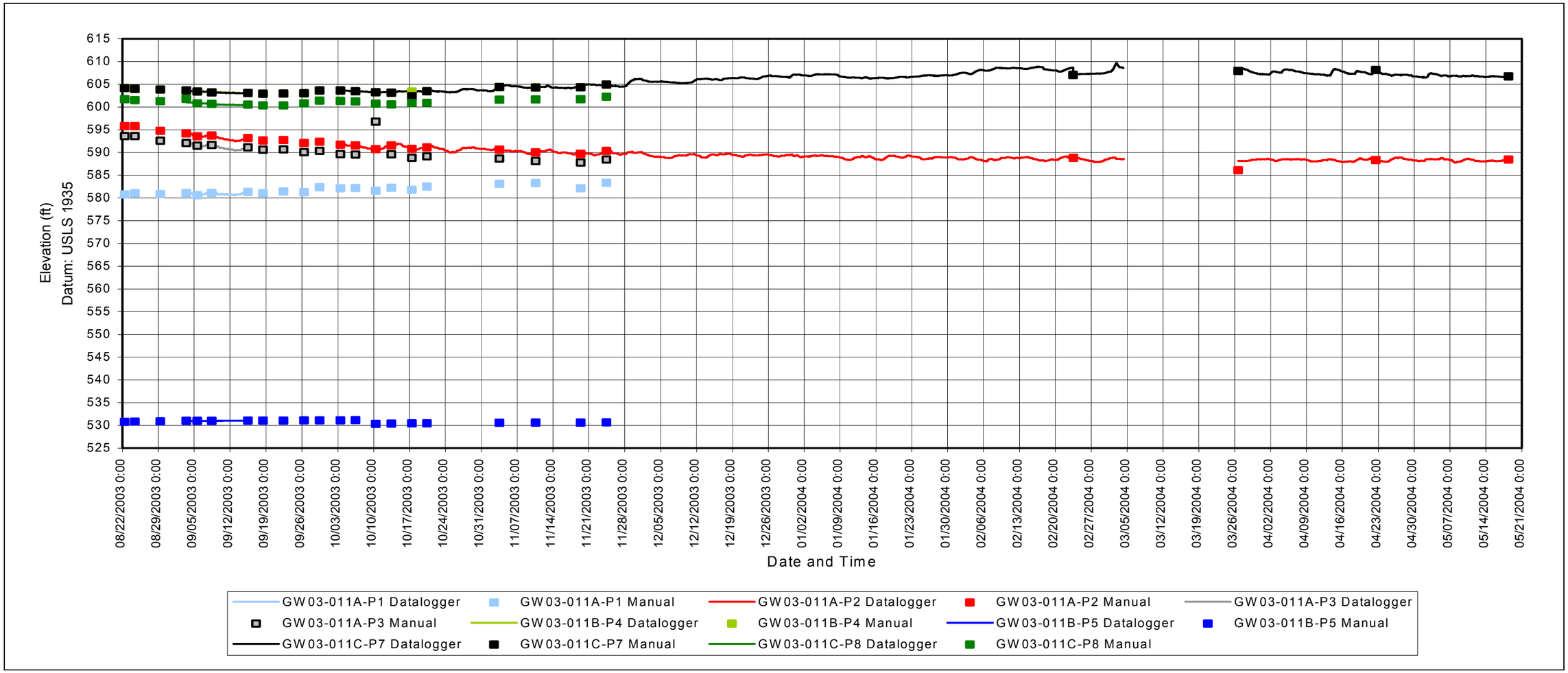

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FIGURE 12

GW03-012, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

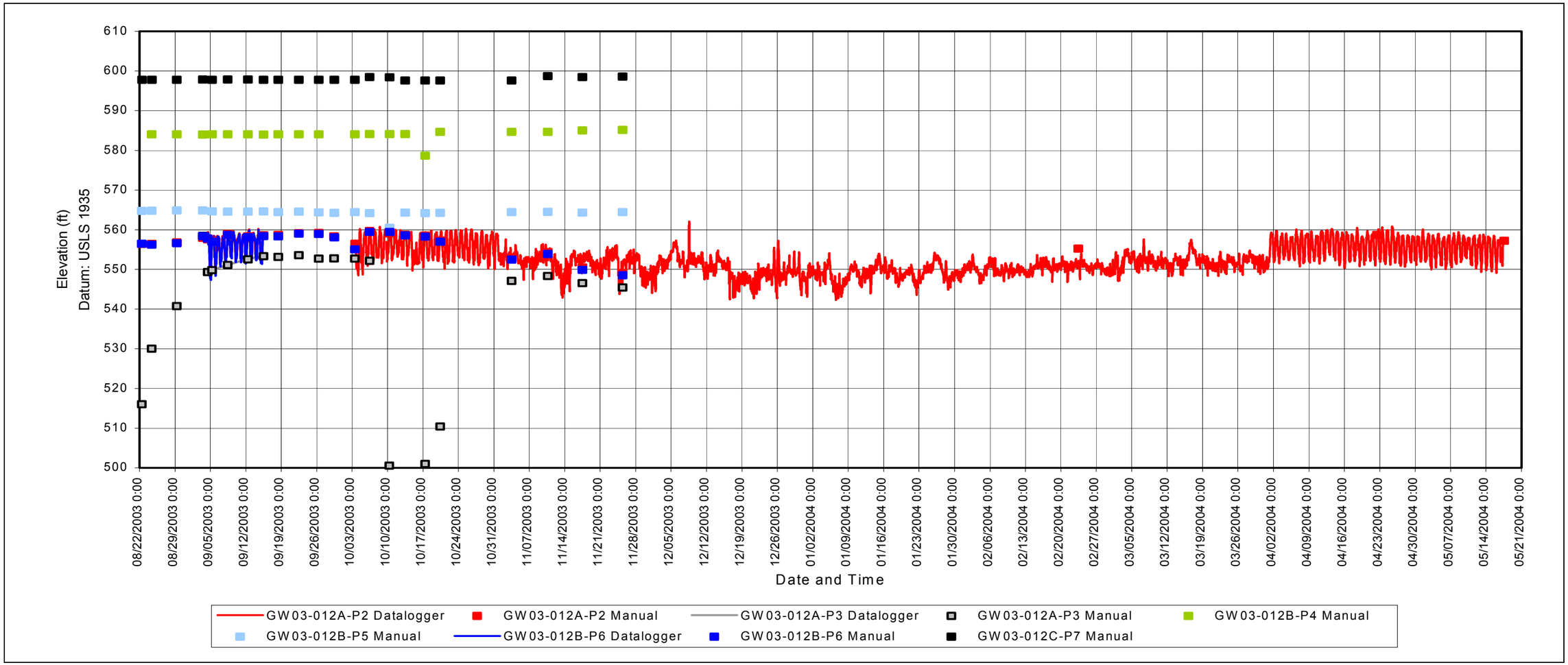

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FIGURE 13

GW03-013, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

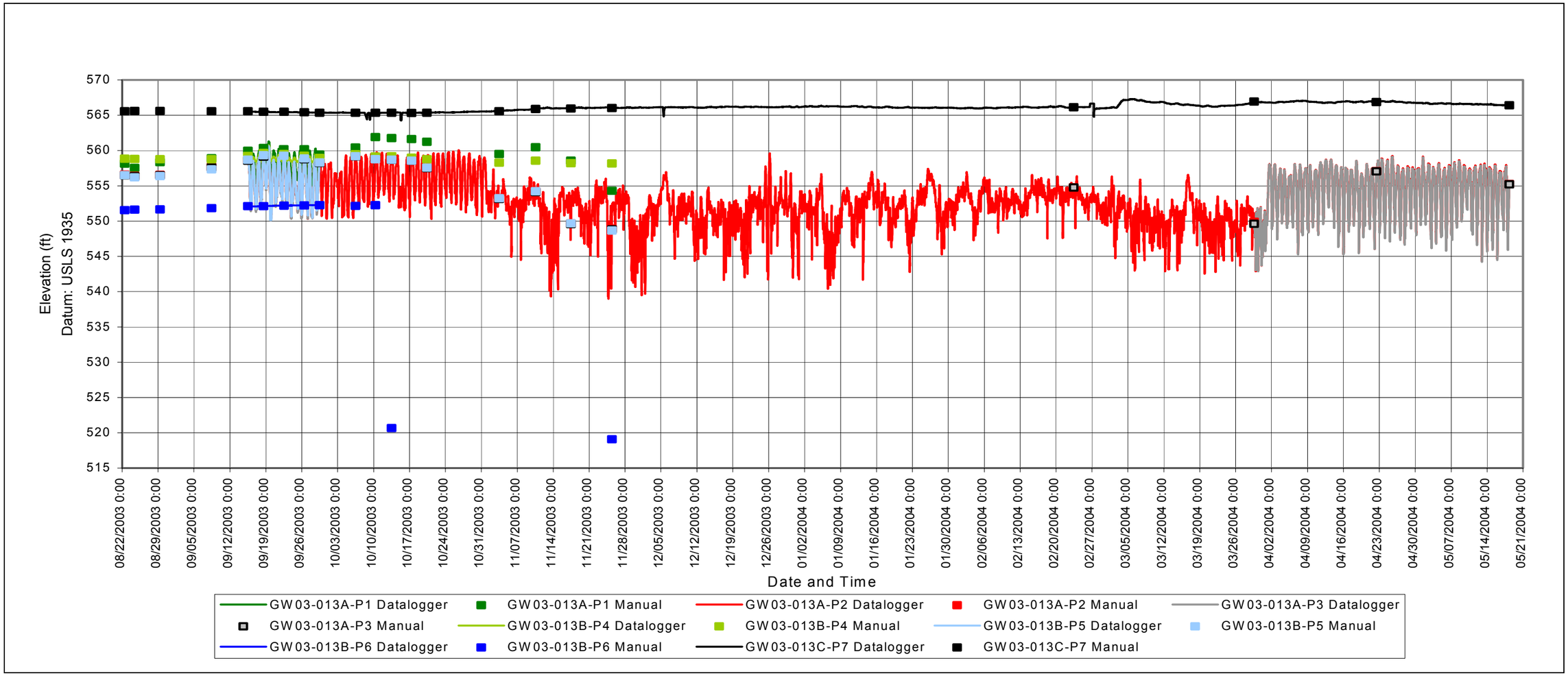

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FIGURE 14

GW03-014, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

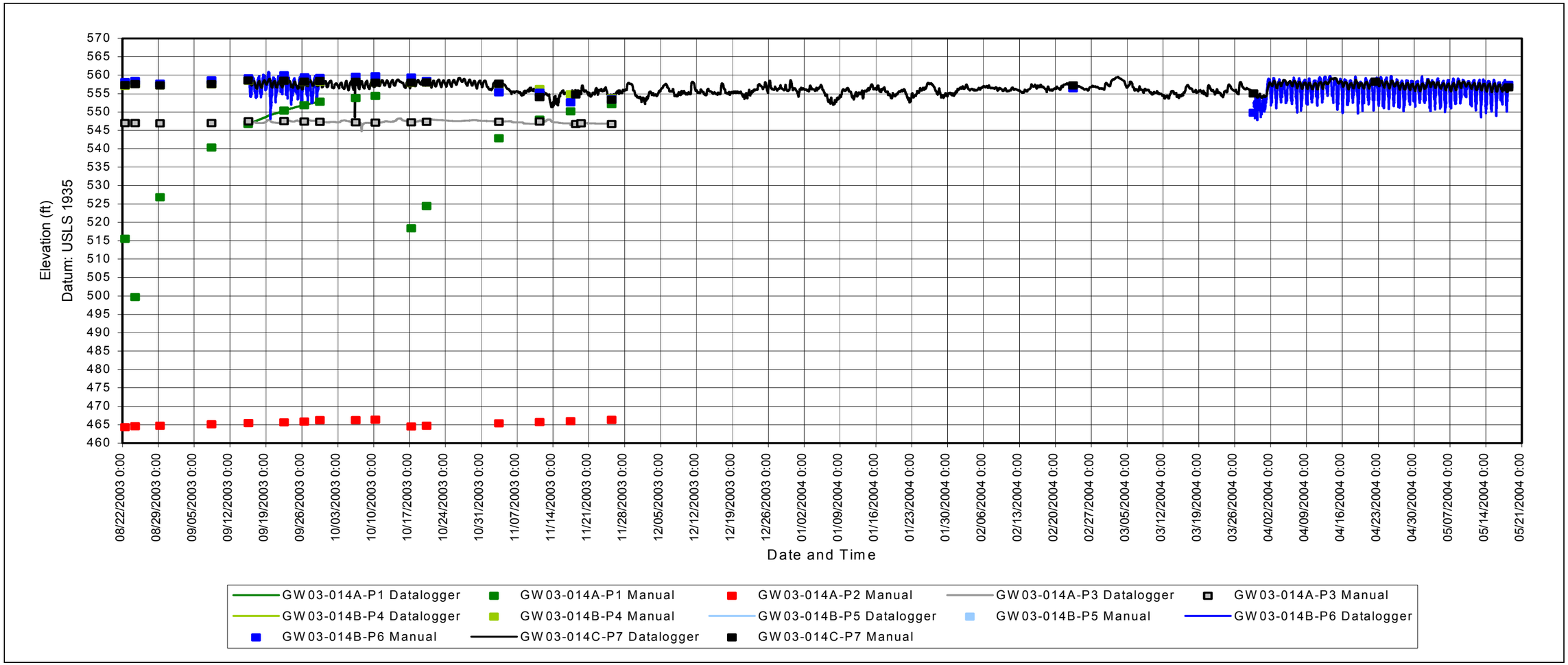

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FIGURE 15

GW03-015, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

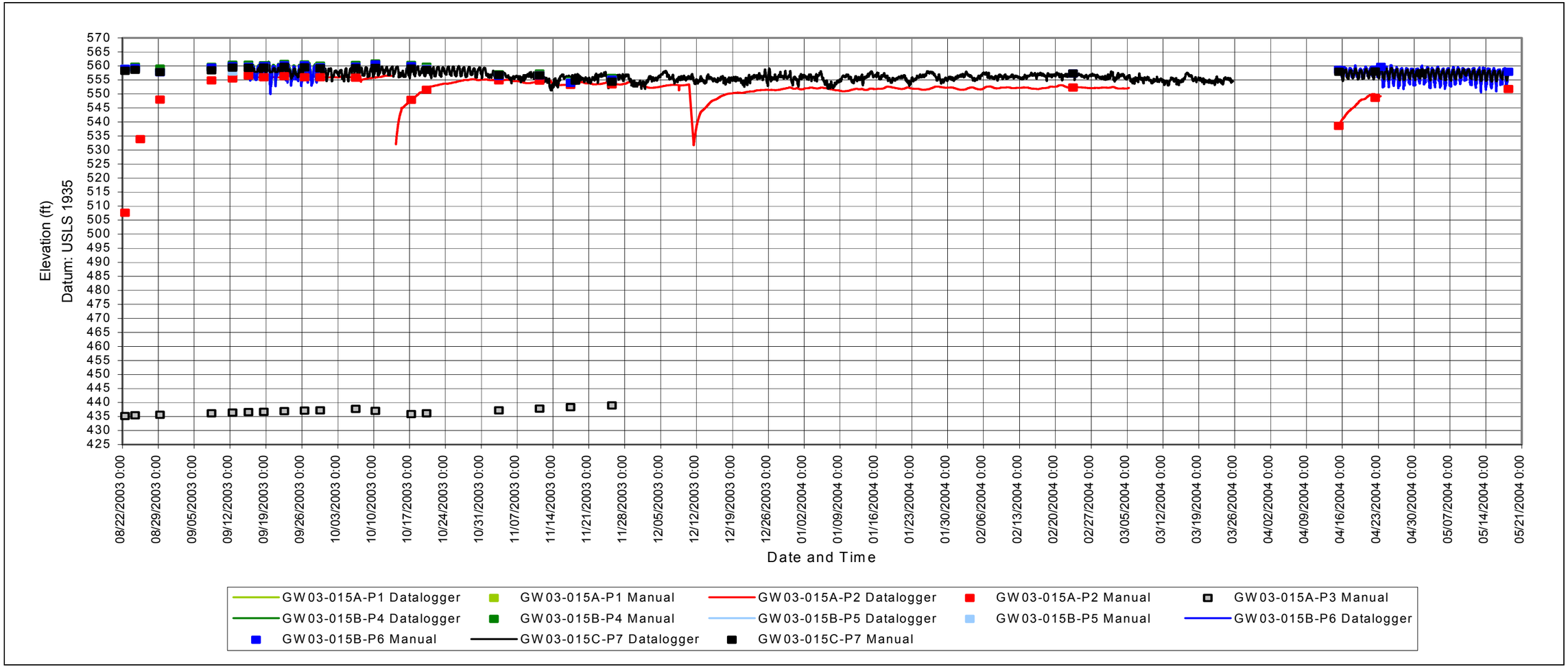

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FIGURE 16

GW03-016, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

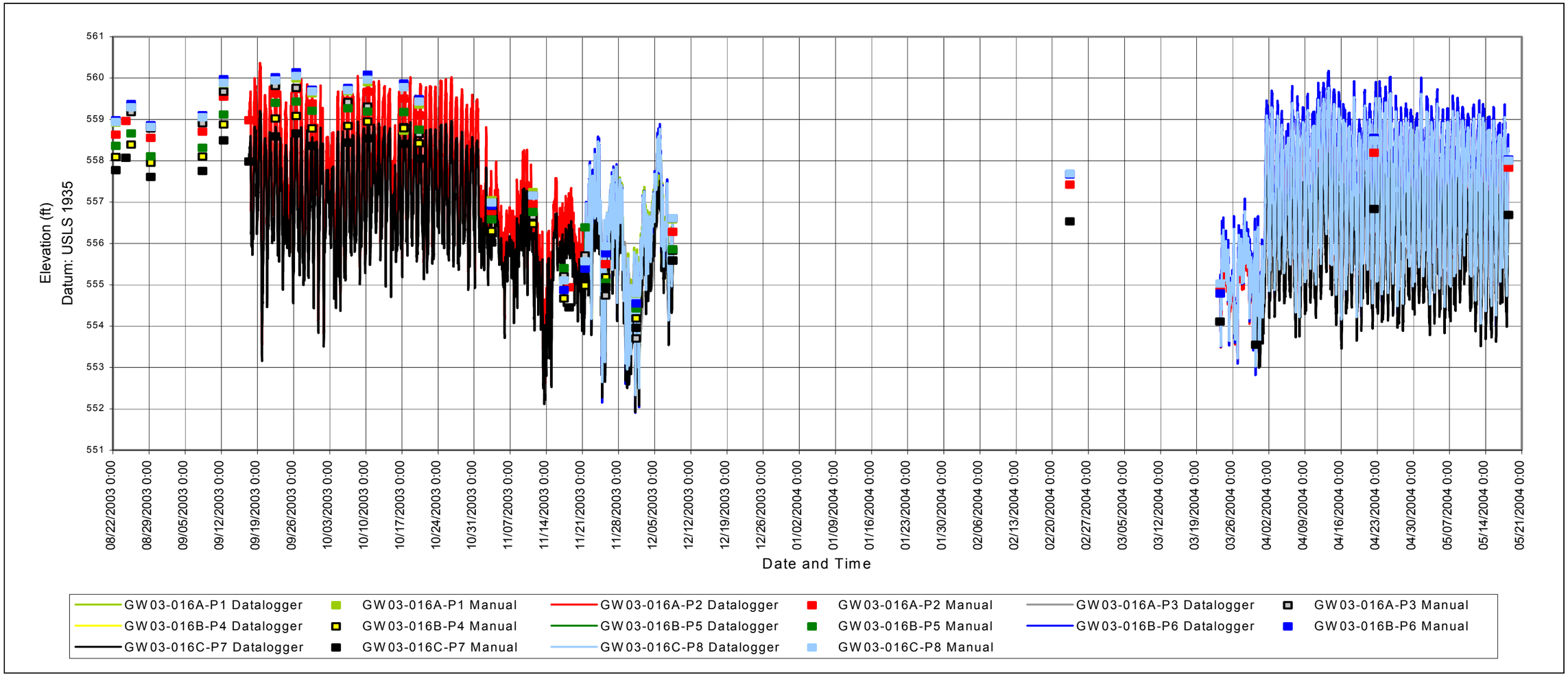

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FIGURE 17

GW03-017, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY - DECEMBER 2003

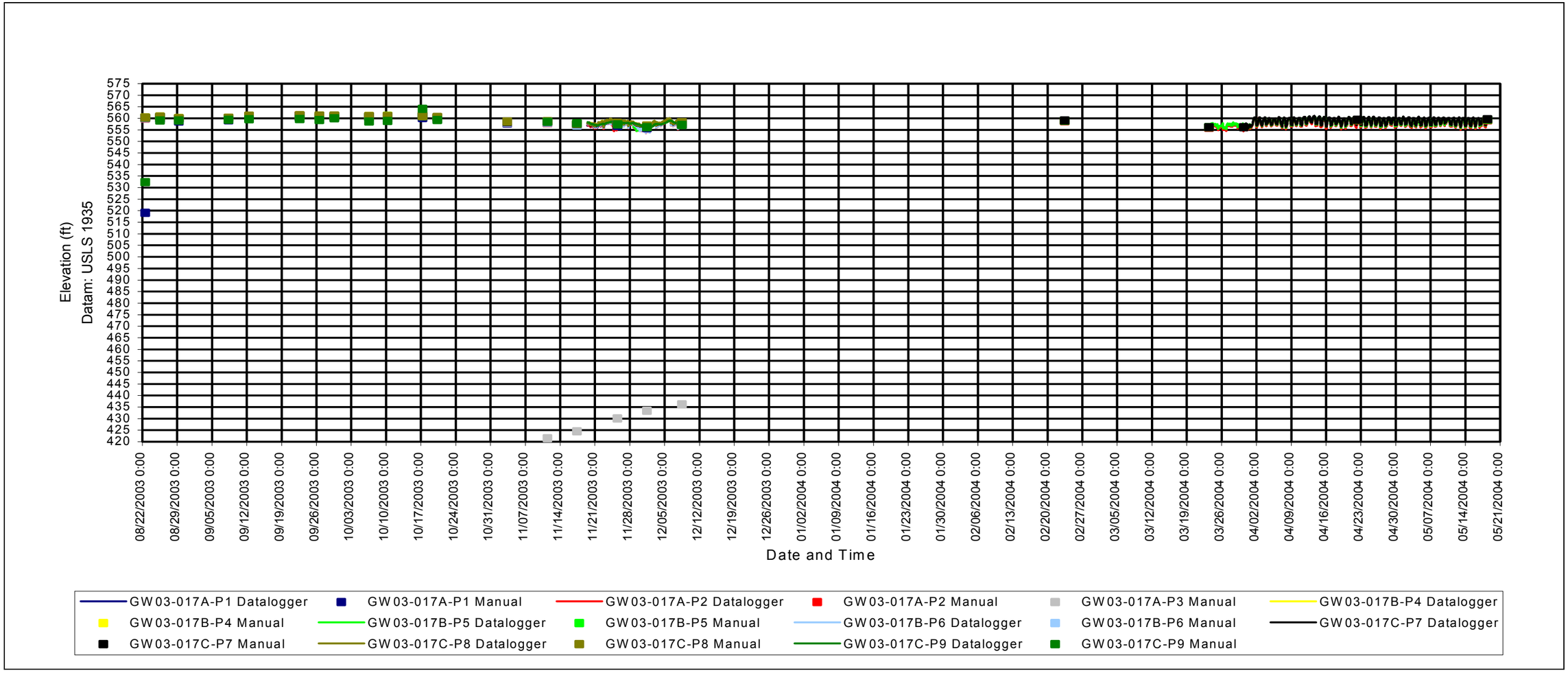

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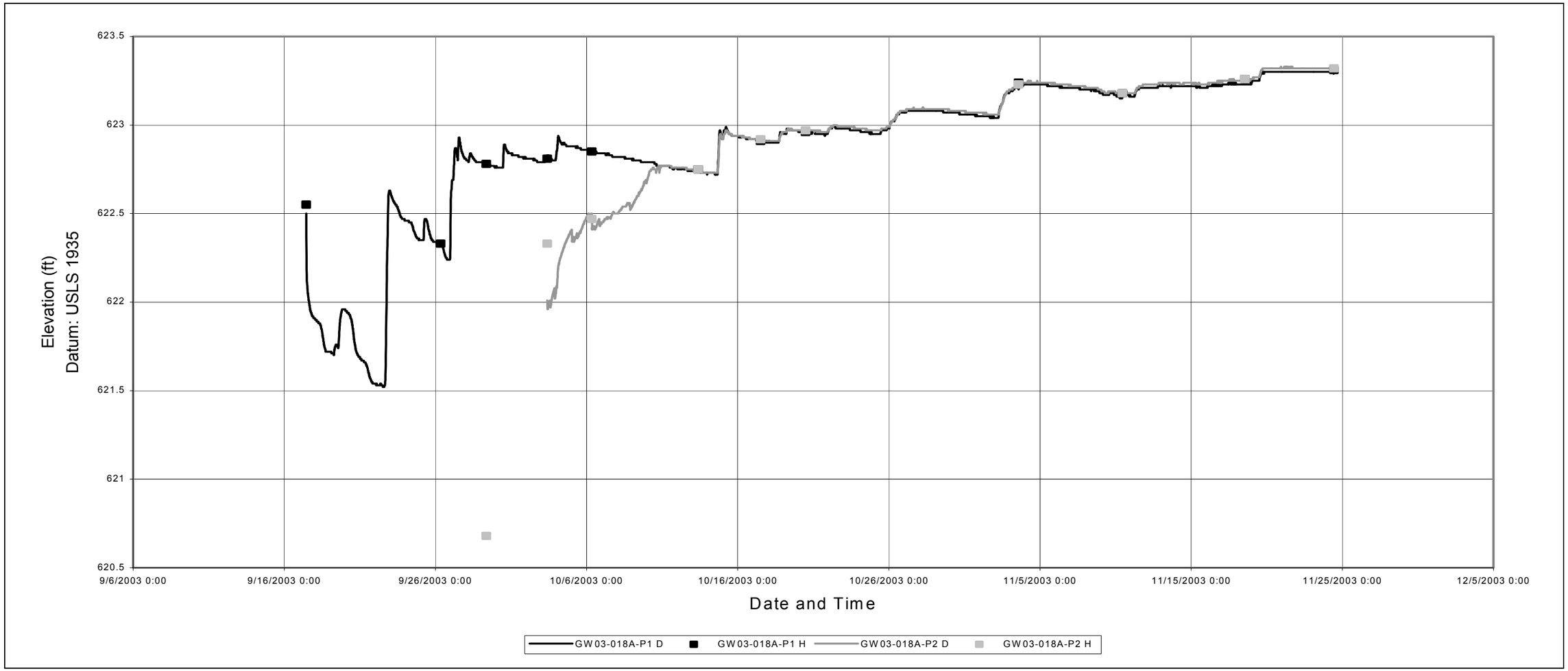
FIGURE 18

GW03-018, DATALOGGER AND MANUAL GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003



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Non-Internet Public (NIP) information has been removed from the remainder of Appendix K (Figures 19 through 32)

This material is contained in:
Volume 2
Section: Determine to What Extent Project Operations Affect the Transport of Groundwater and Contaminants

APPENDIX L

NYPA RESERVOIR OBSERVATION WELLS - DATALOGGER GROUNDWATER ELEVATIONS, JULY - NOVEMBER 2003

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FIGURE 1

NW-01, DATALOGGER GROUNDWATER ELEVATIONS, JULY - NOVEMBER 2003

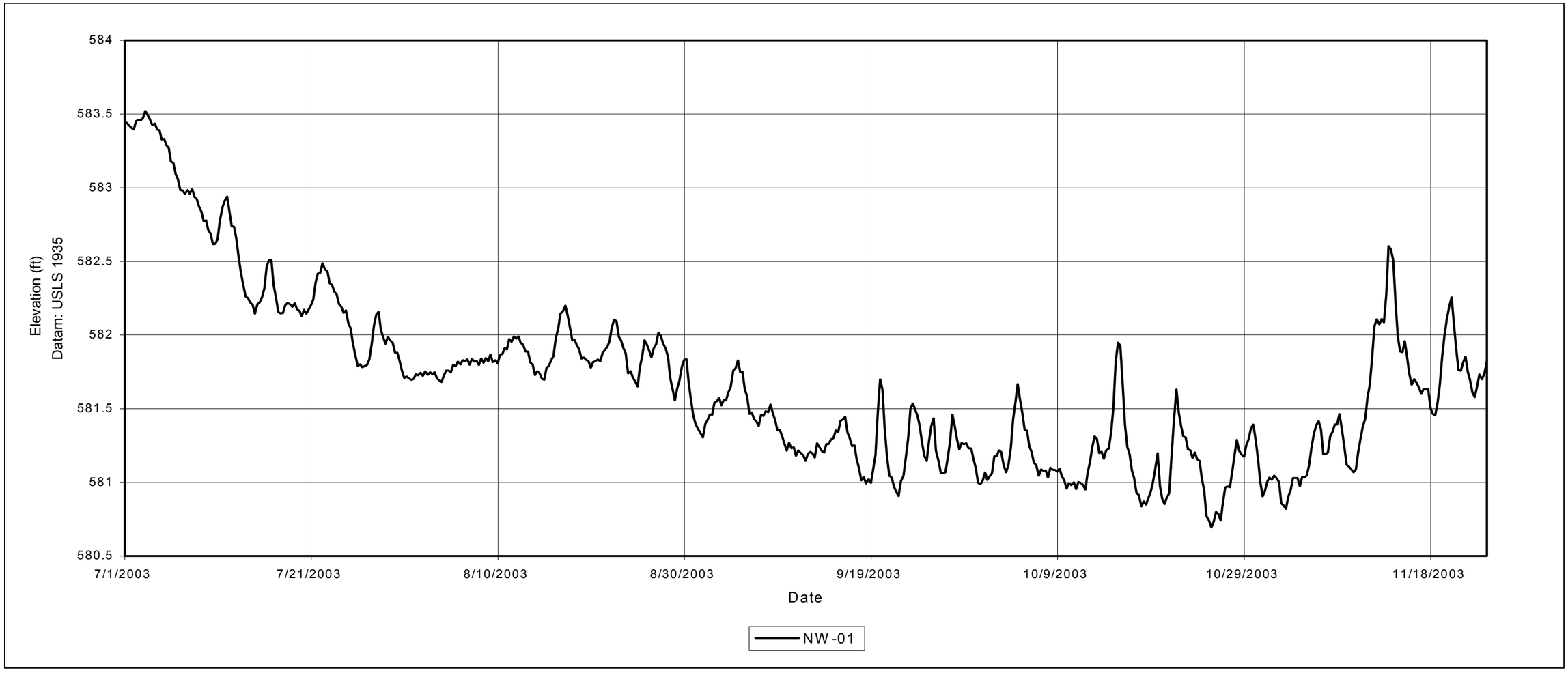

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FIGURE 2

NW-05, DATALOGGER GROUNDWATER ELEVATIONS, JULY-DECEMBER 2003

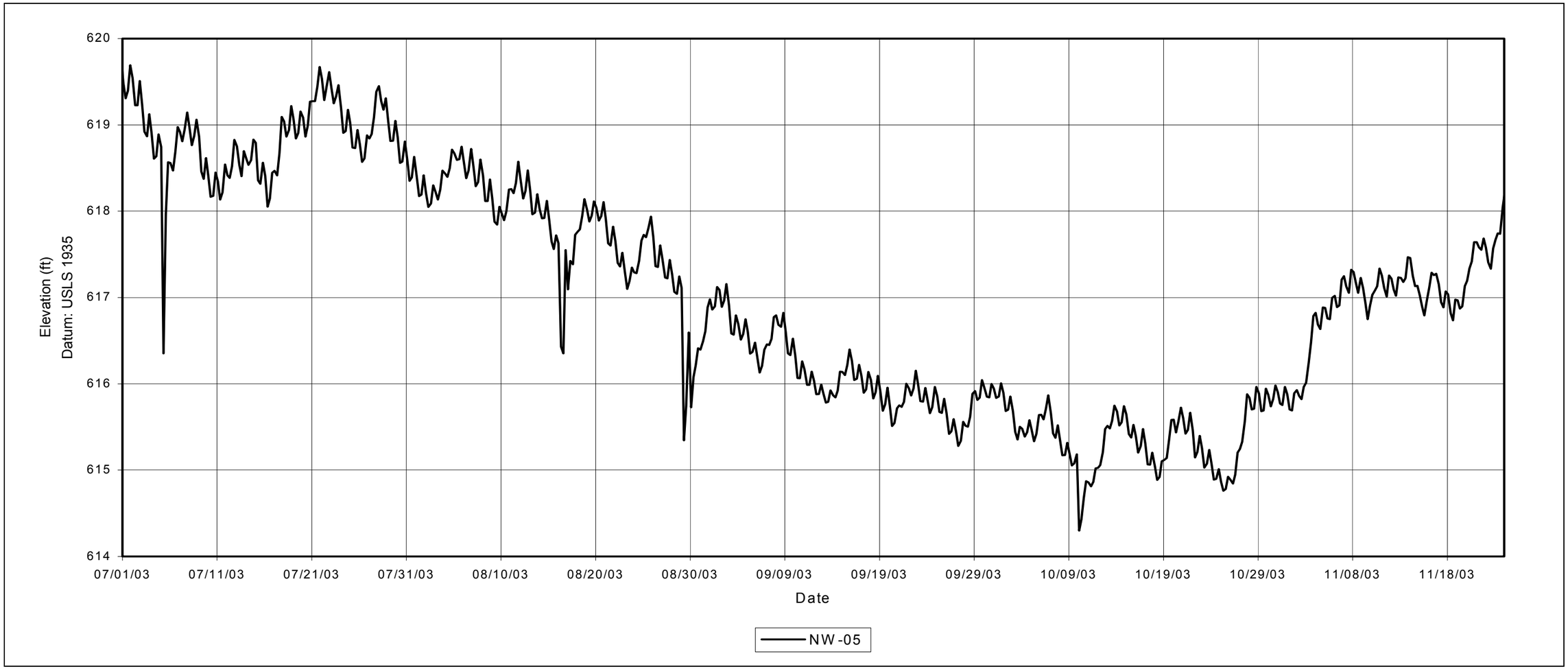

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FIGURE 3

NW-07, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

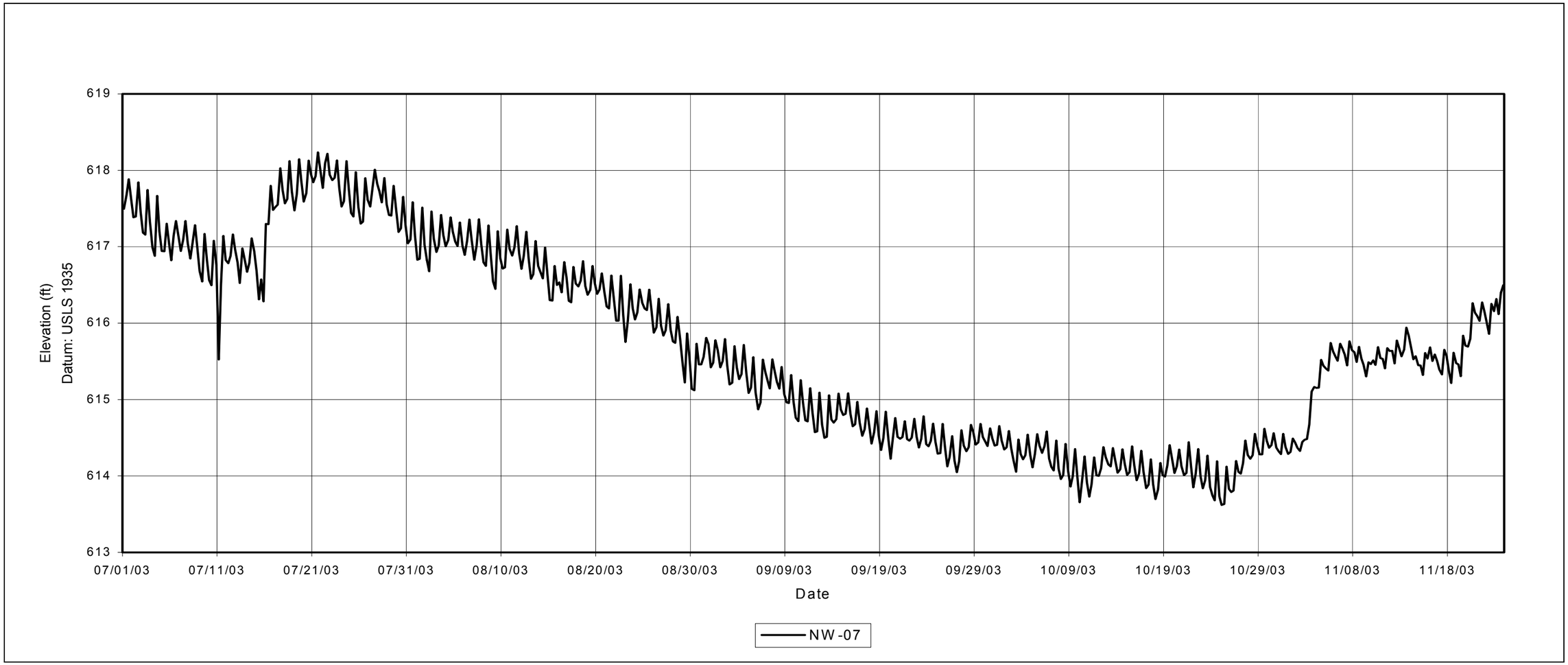

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FIGURE 4

NW-09, DATALOGGER GROUNDWATER ELEVATION, JULY-NOVEMBER 2003

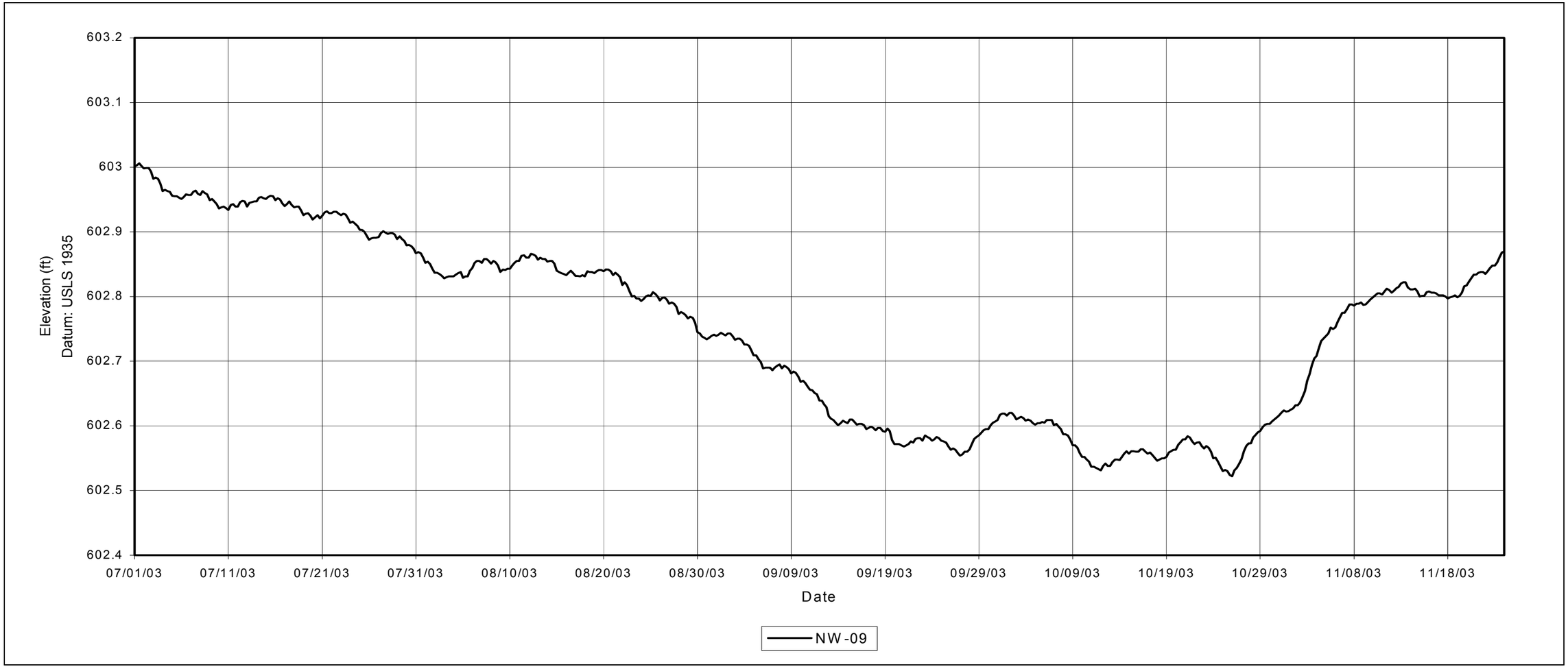

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FIGURE 5

NW-10, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

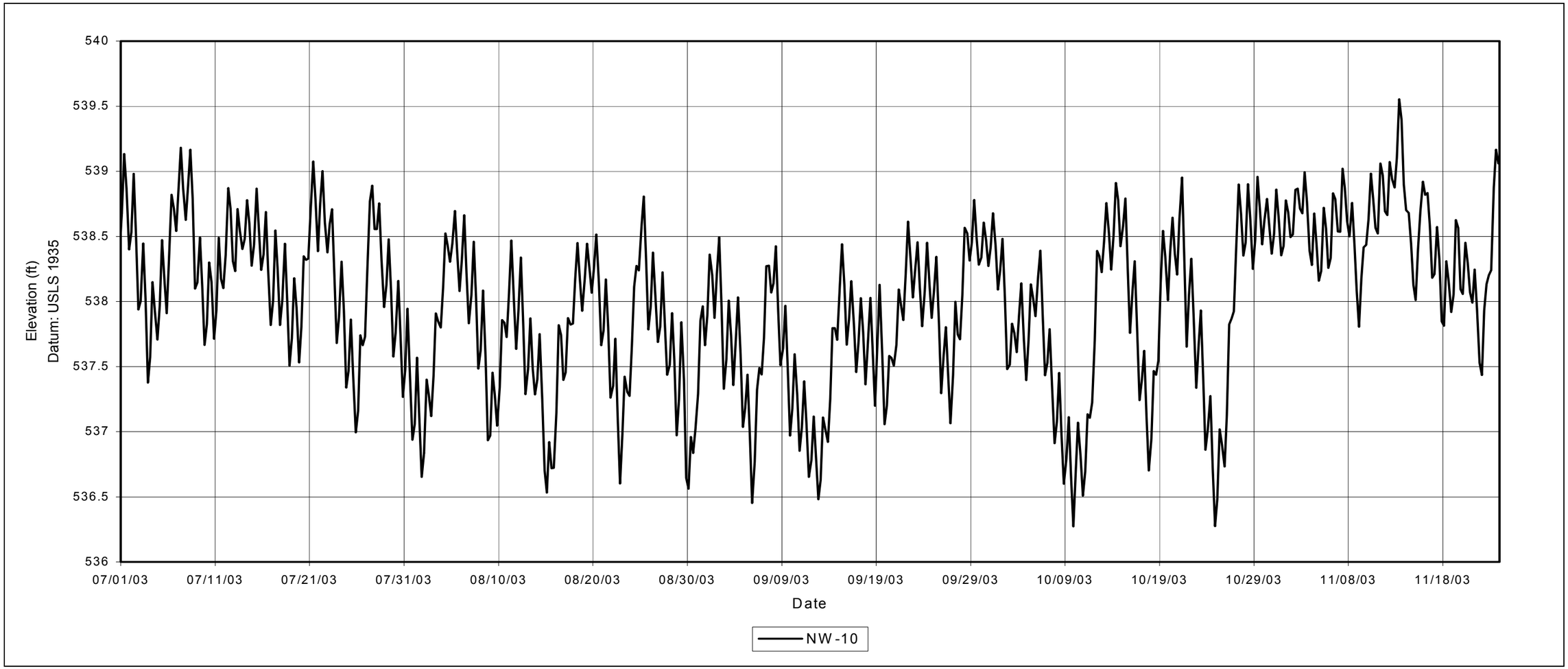

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FIGURE 6

NW-11, DATALOGGER GROUNDWATER ELEVATION, JULY-NOVEMBER 2003

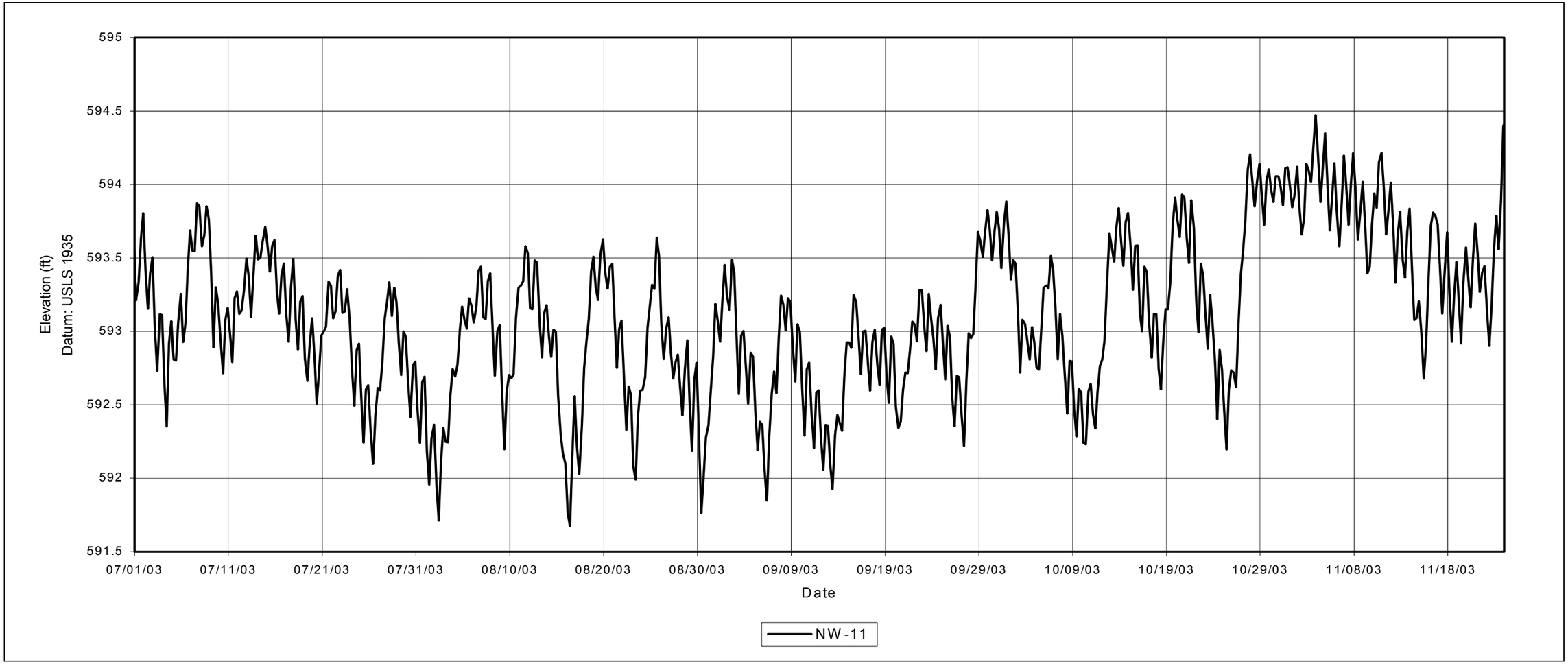

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FIGURE 7

NW-13, DATALOGGER GROUNDWATER ELEVATION, JULY-NOVEMBER 2003

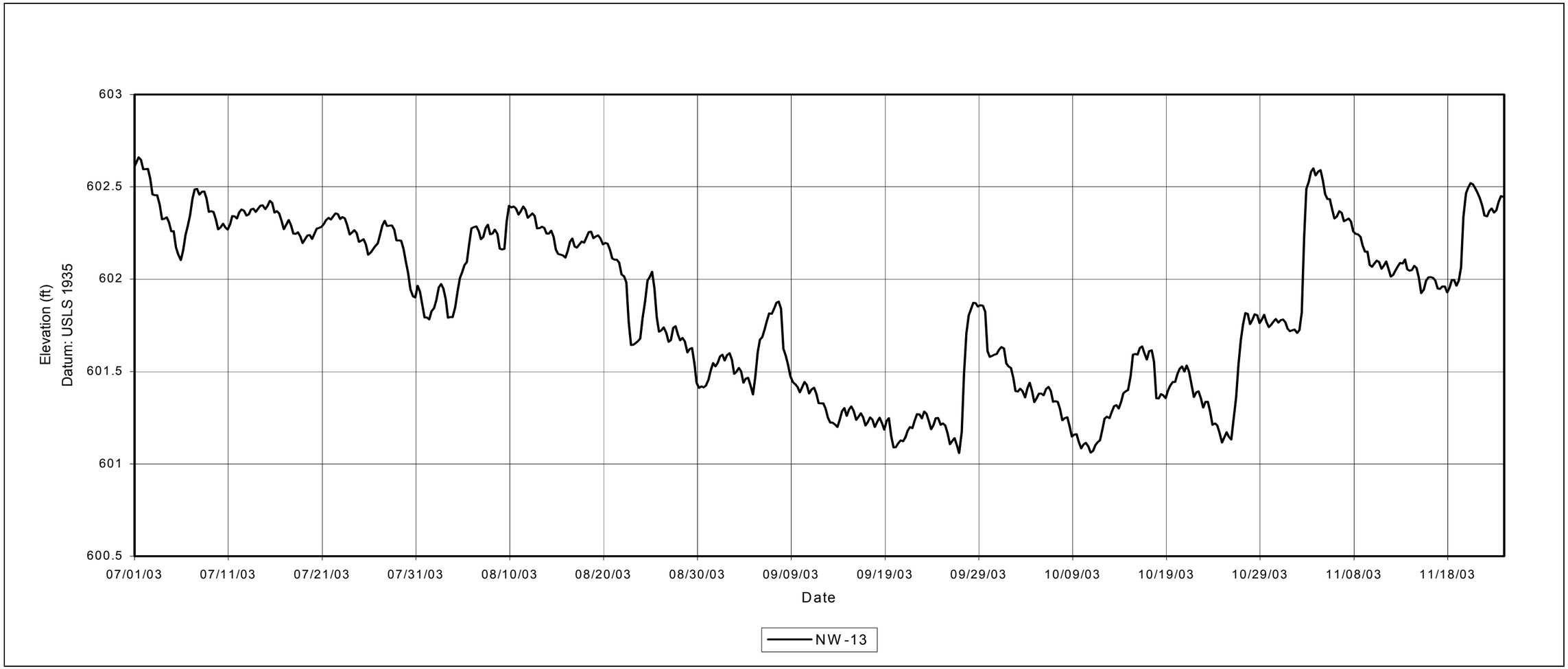

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FIGURE 8

NW-16, DATALOGGER GROUNDWATER ELEVATION, JULY-OCTOBER 2003

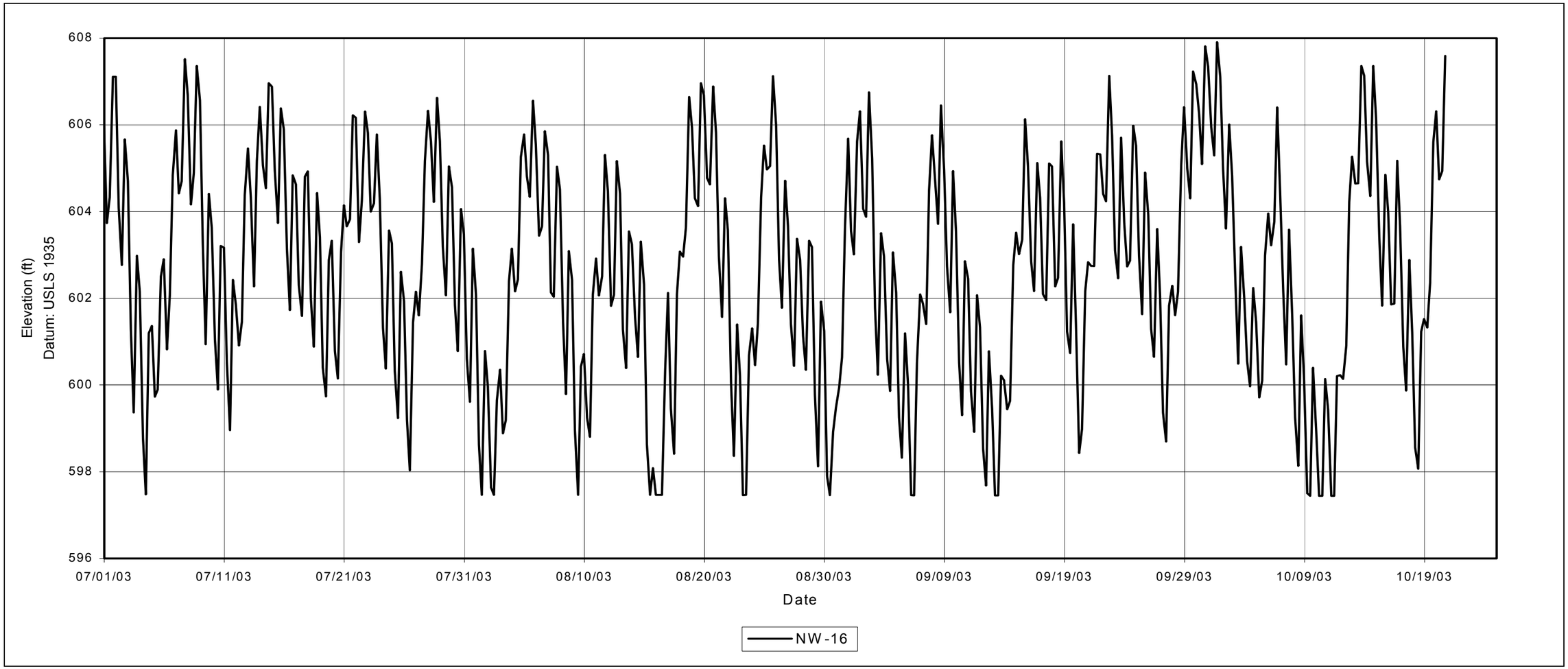

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FIGURE 9

NW-17, DATALOGGER GROUNDWATER ELEVATION, JULY-OCTOBER 2003

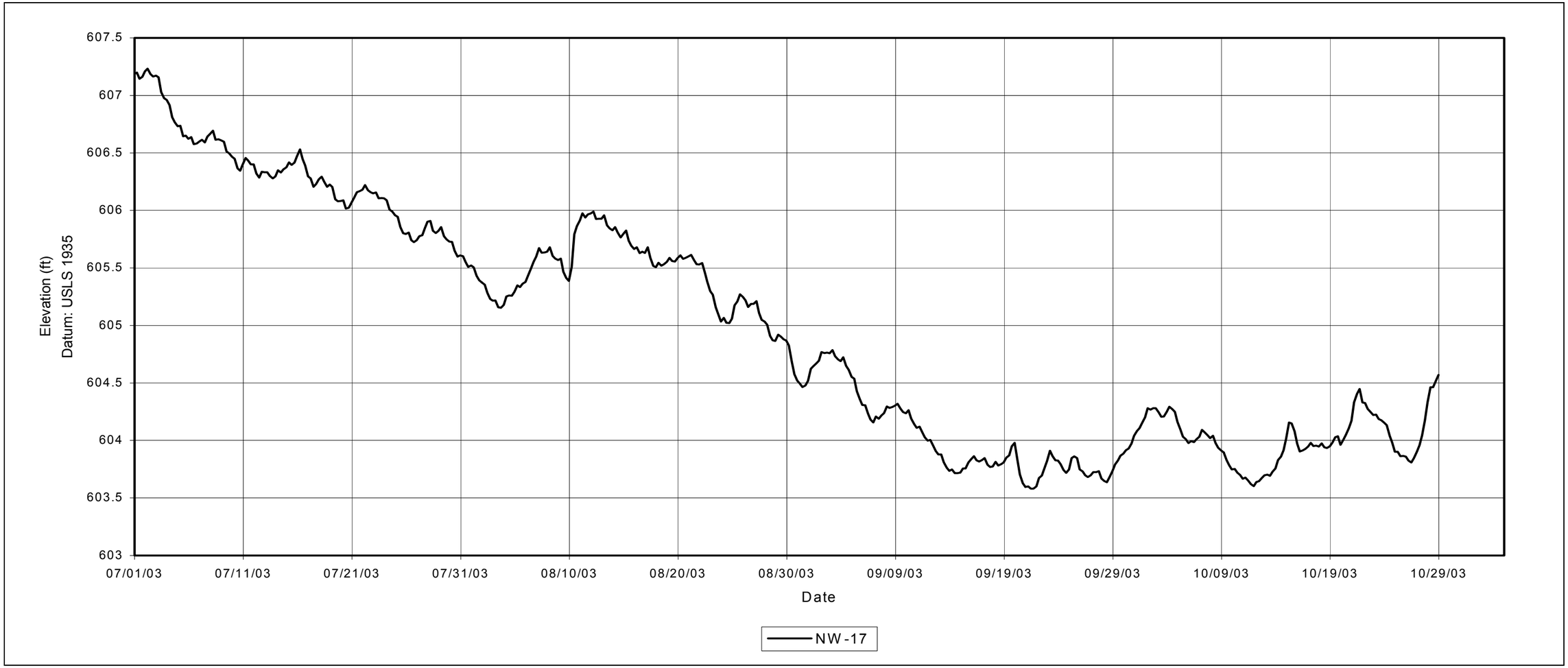

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FIGURE 10

NW-18, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

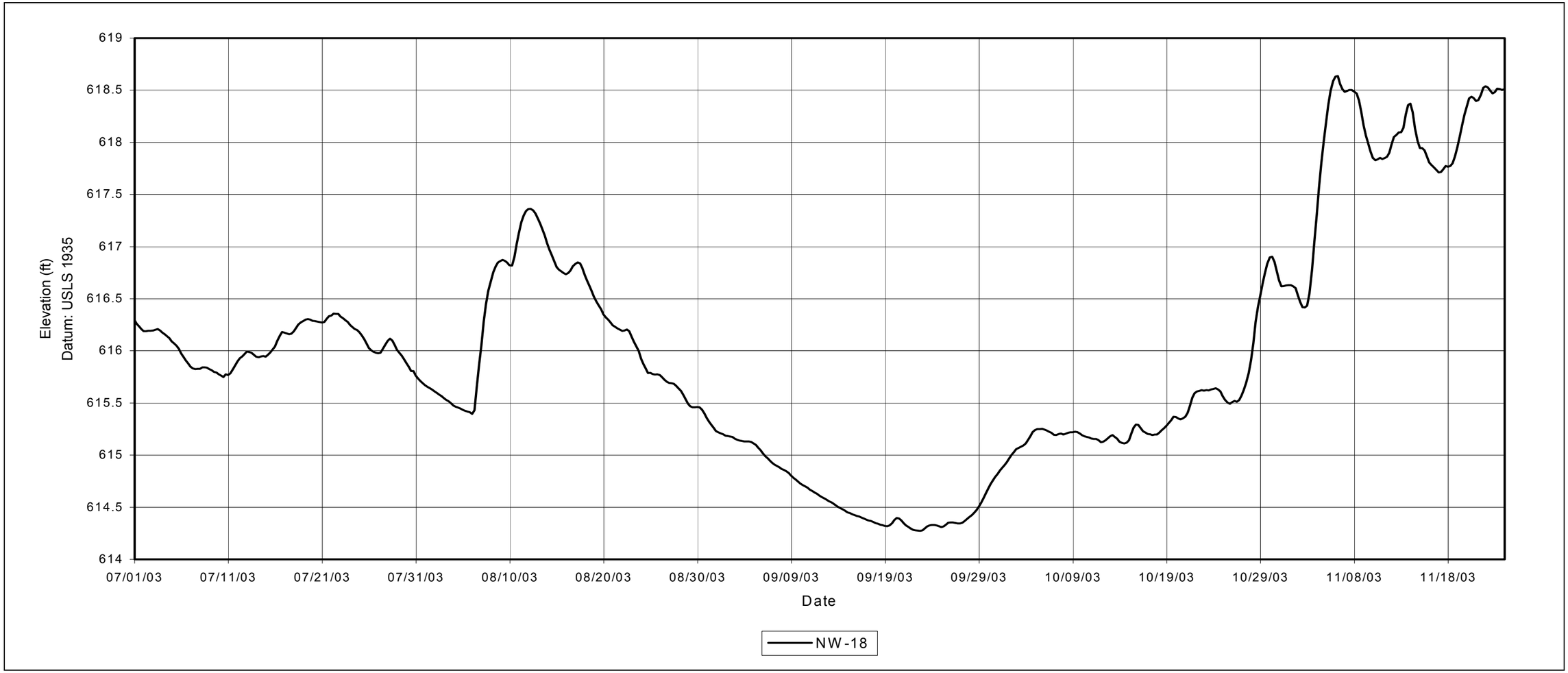

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FIGURE 11

NW-19, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

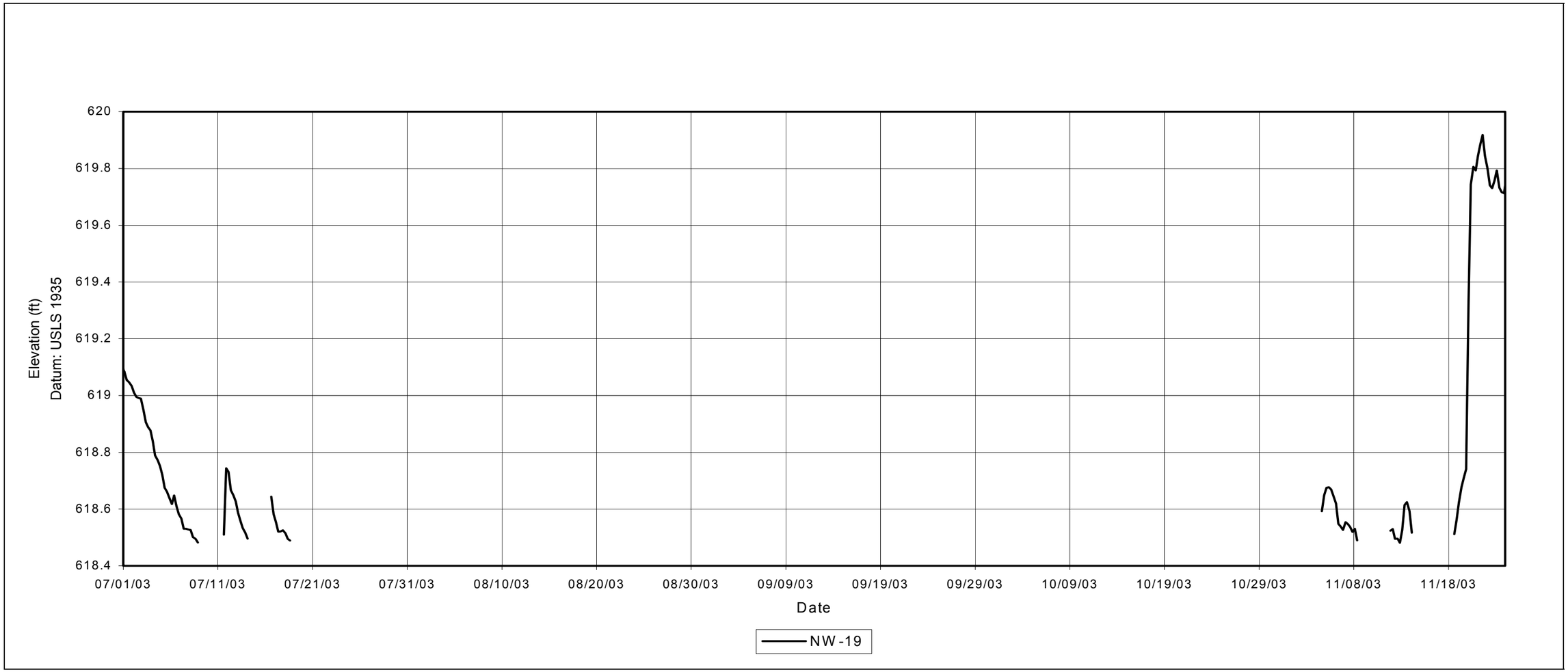

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FIGURE 12

NW-20, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

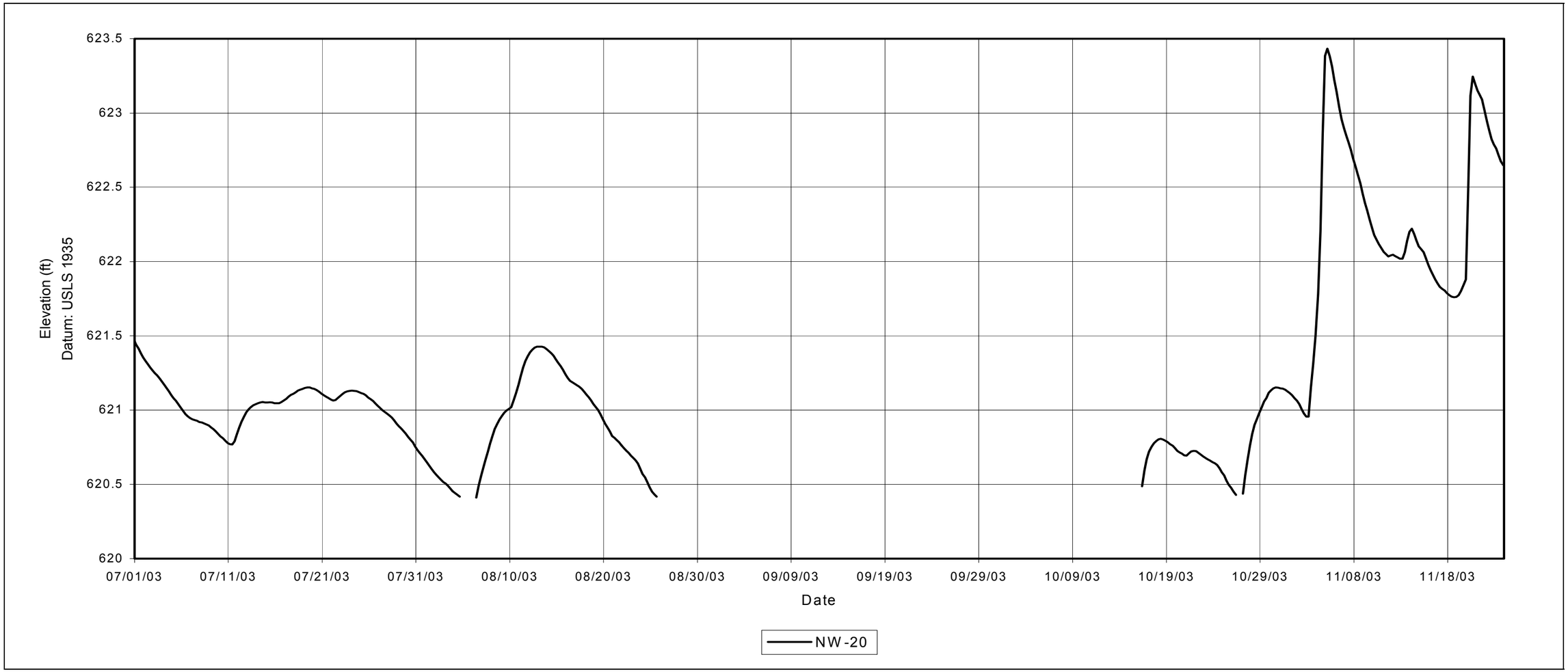

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FIGURE 13

OW-104, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

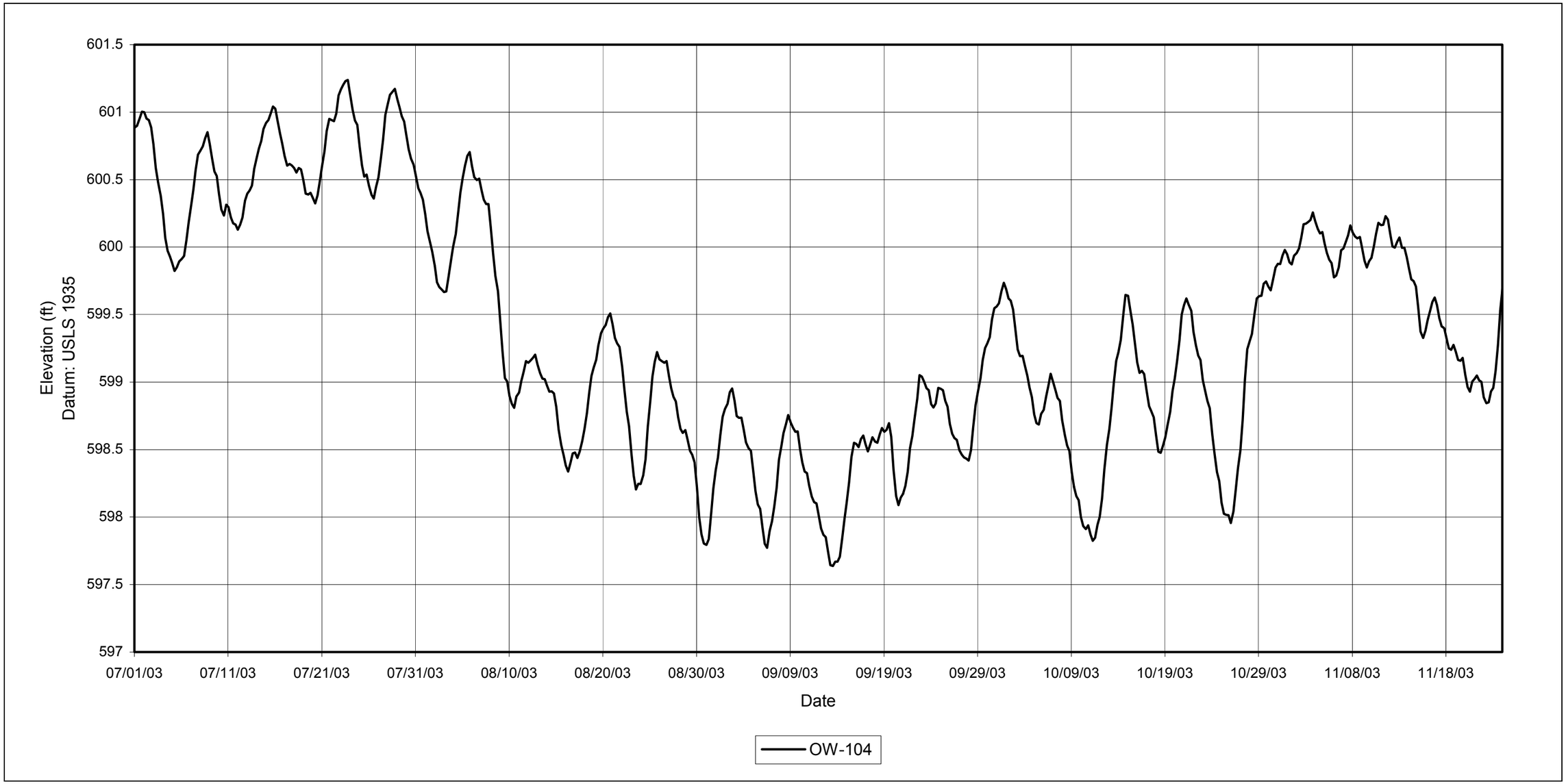

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FIGURE 14

OW-111, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

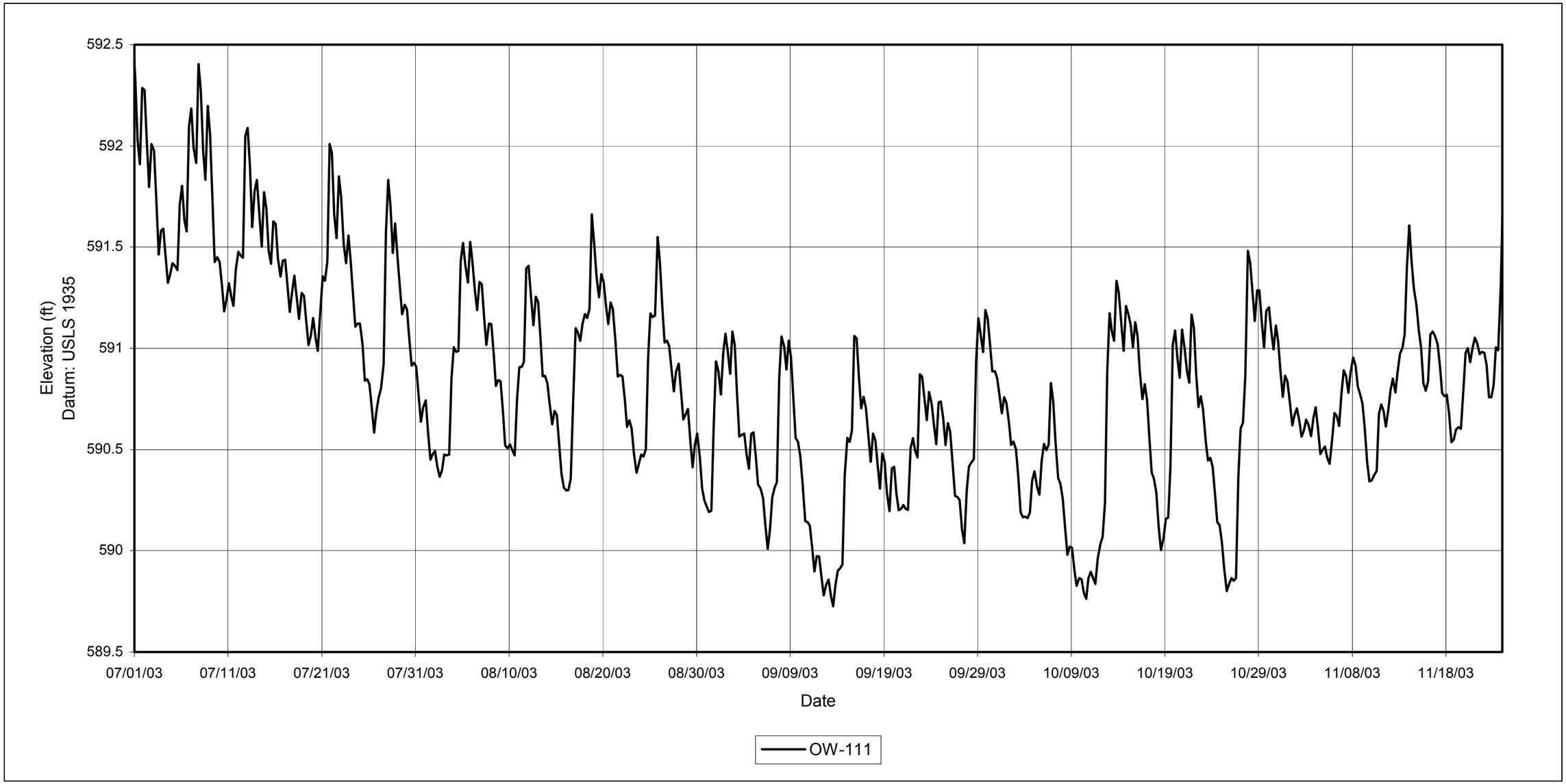

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FIGURE 15

OW-112, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

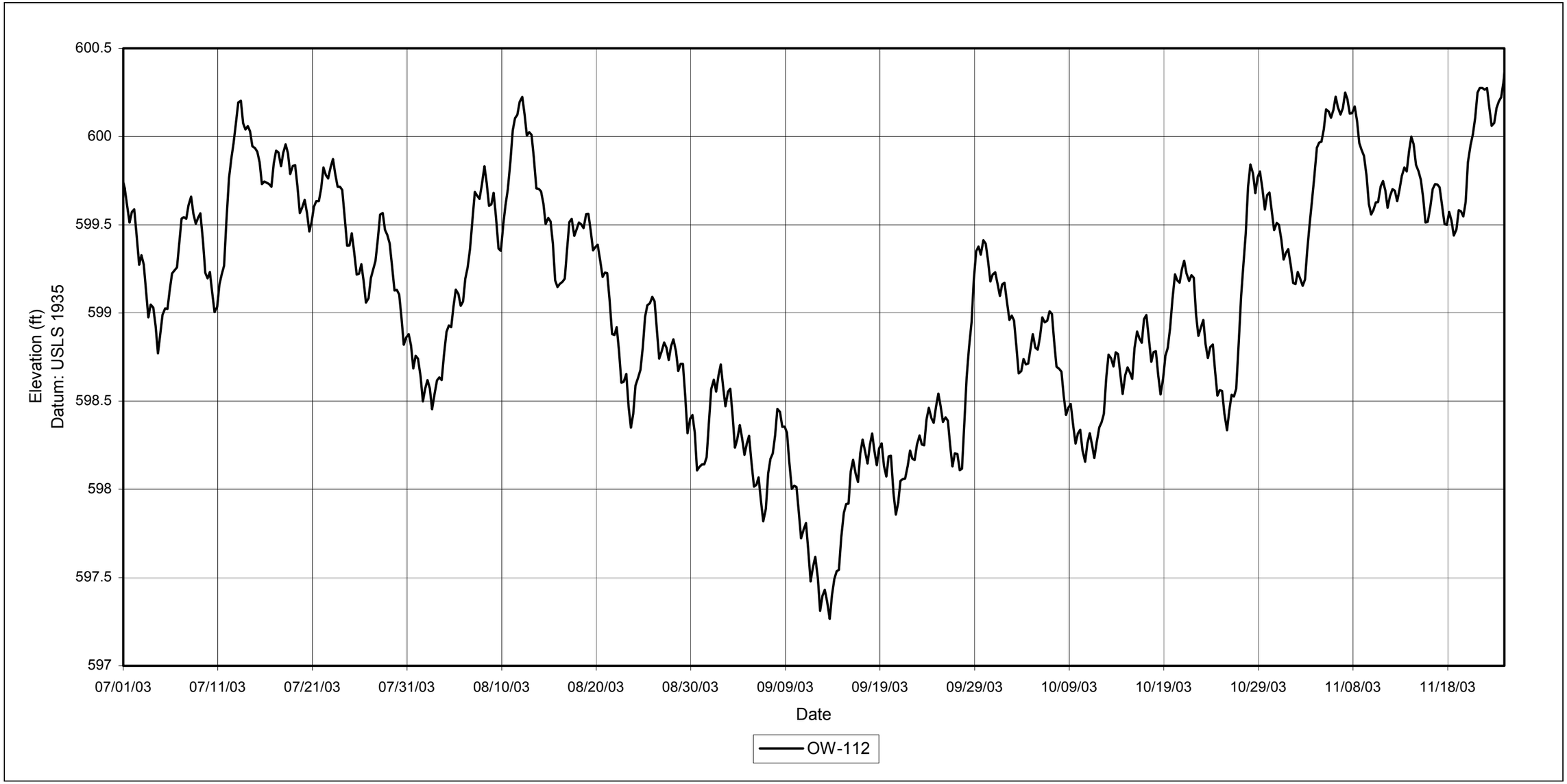

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FIGURE 16

OW-179, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

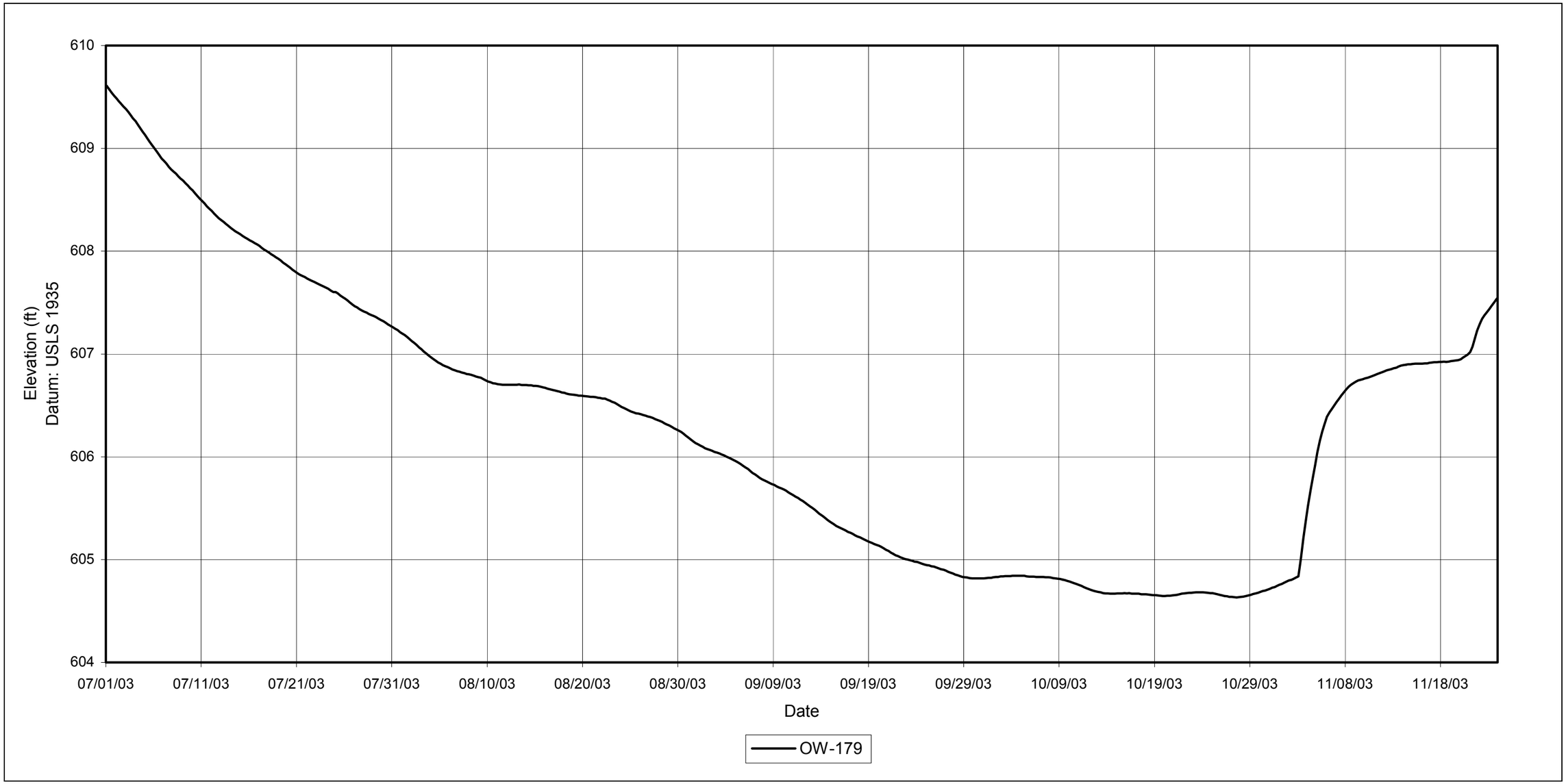

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FIGURE 17

OW-180, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

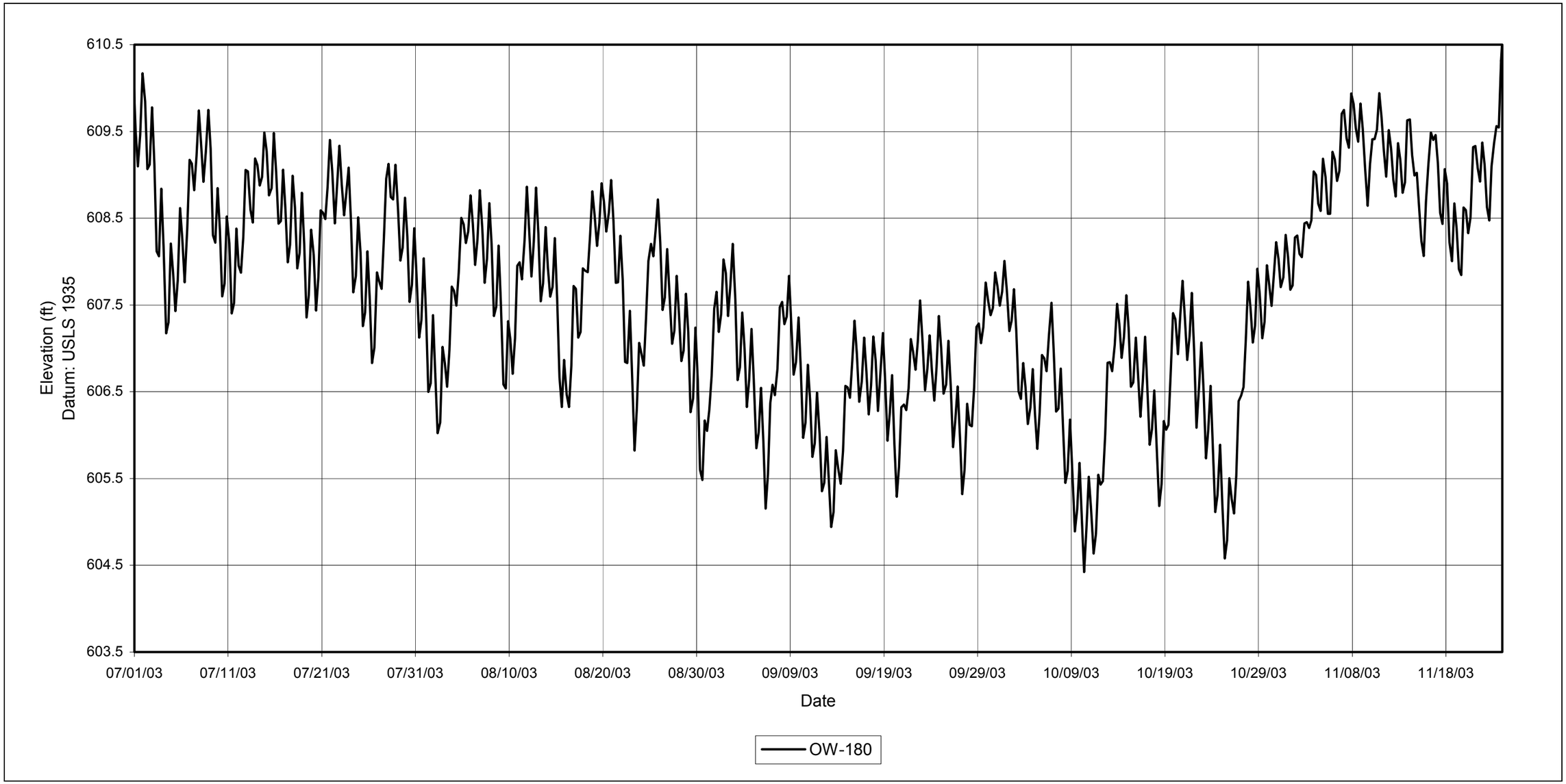

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FIGURE 18

OW-181, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

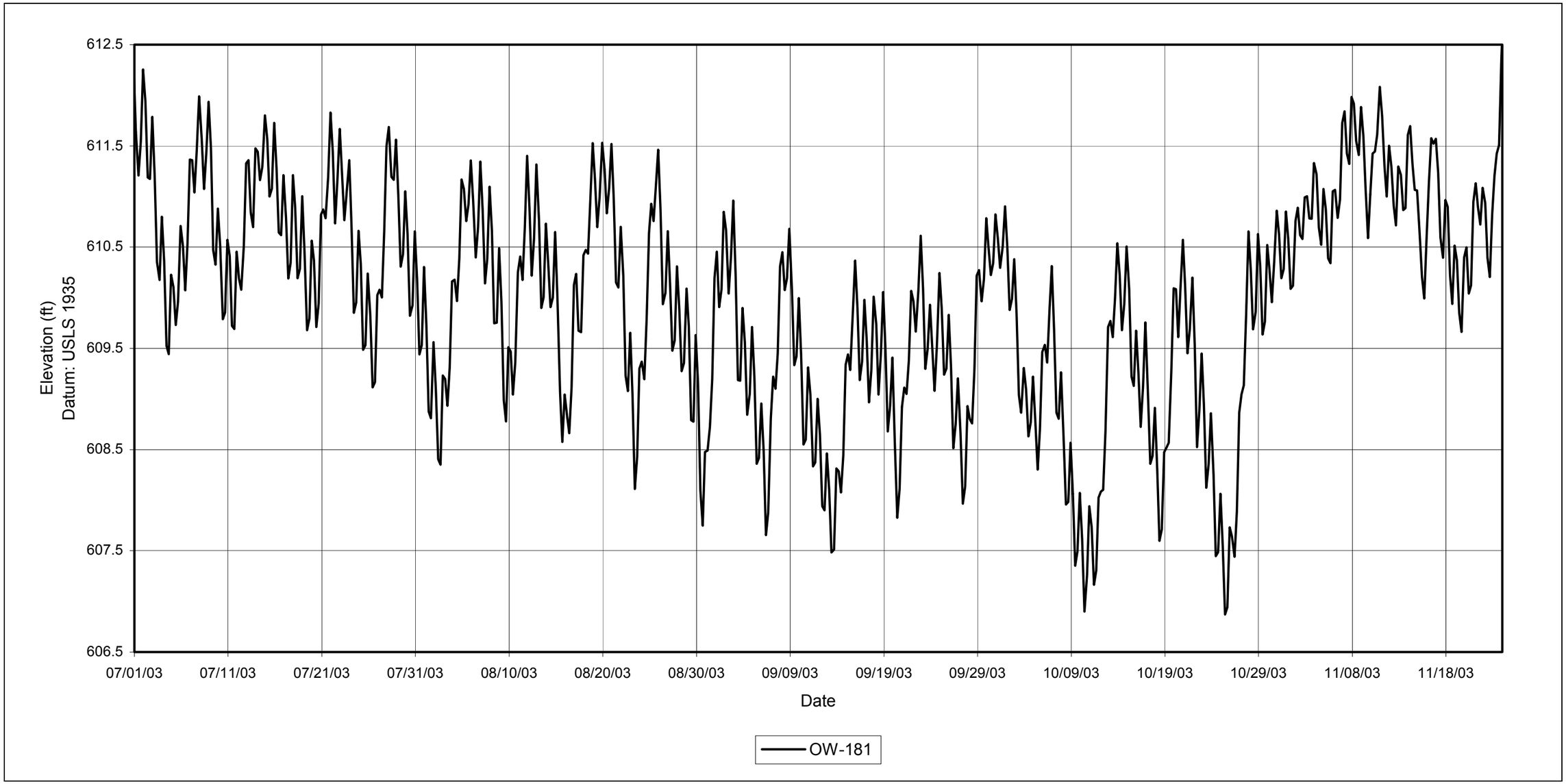

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FIGURE 19

OW-189, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

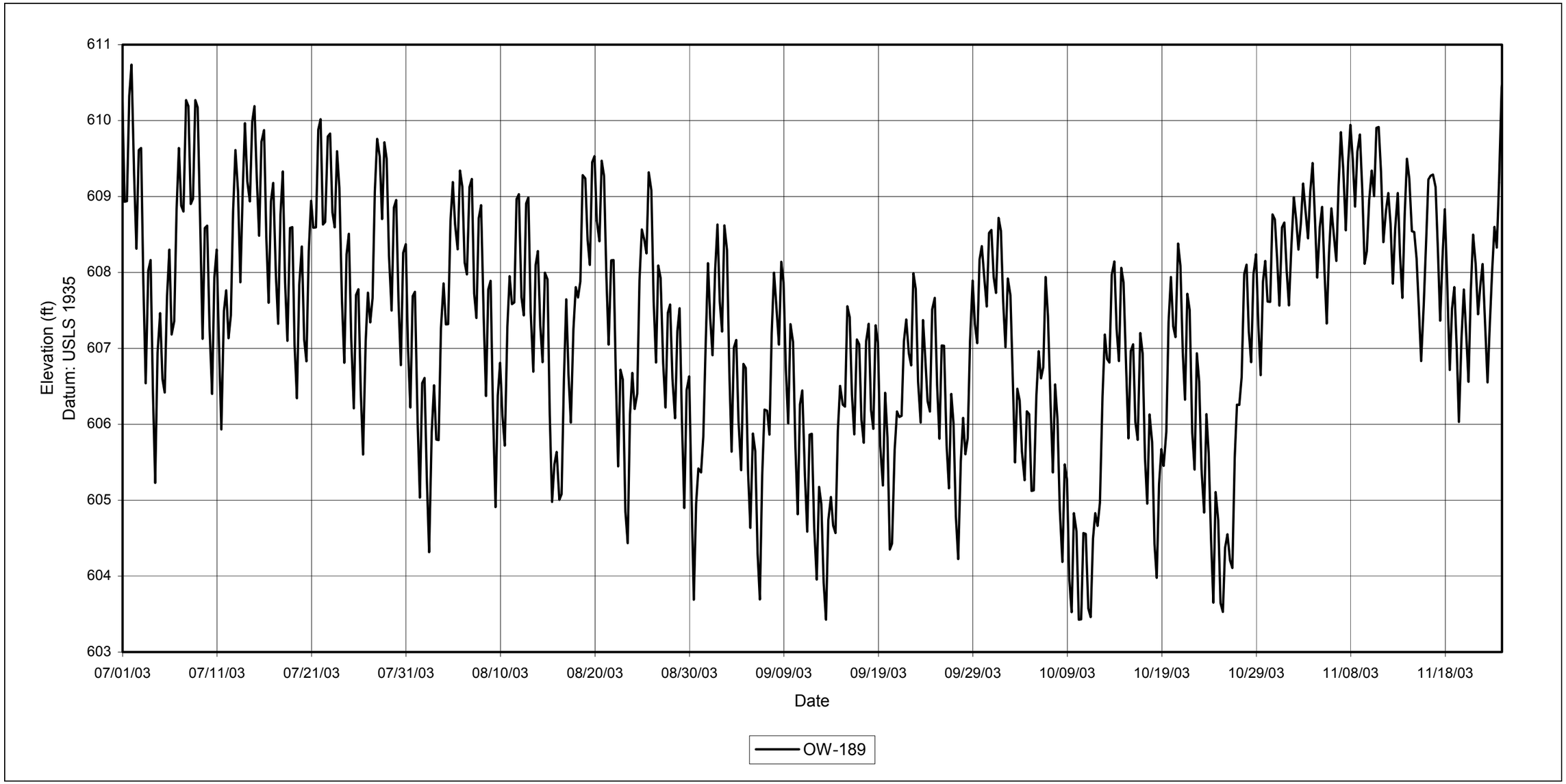

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FIGURE 20

OW-193, DATALOGGER GROUNDWATER ELEVATION, JULY-DECEMBER 2003

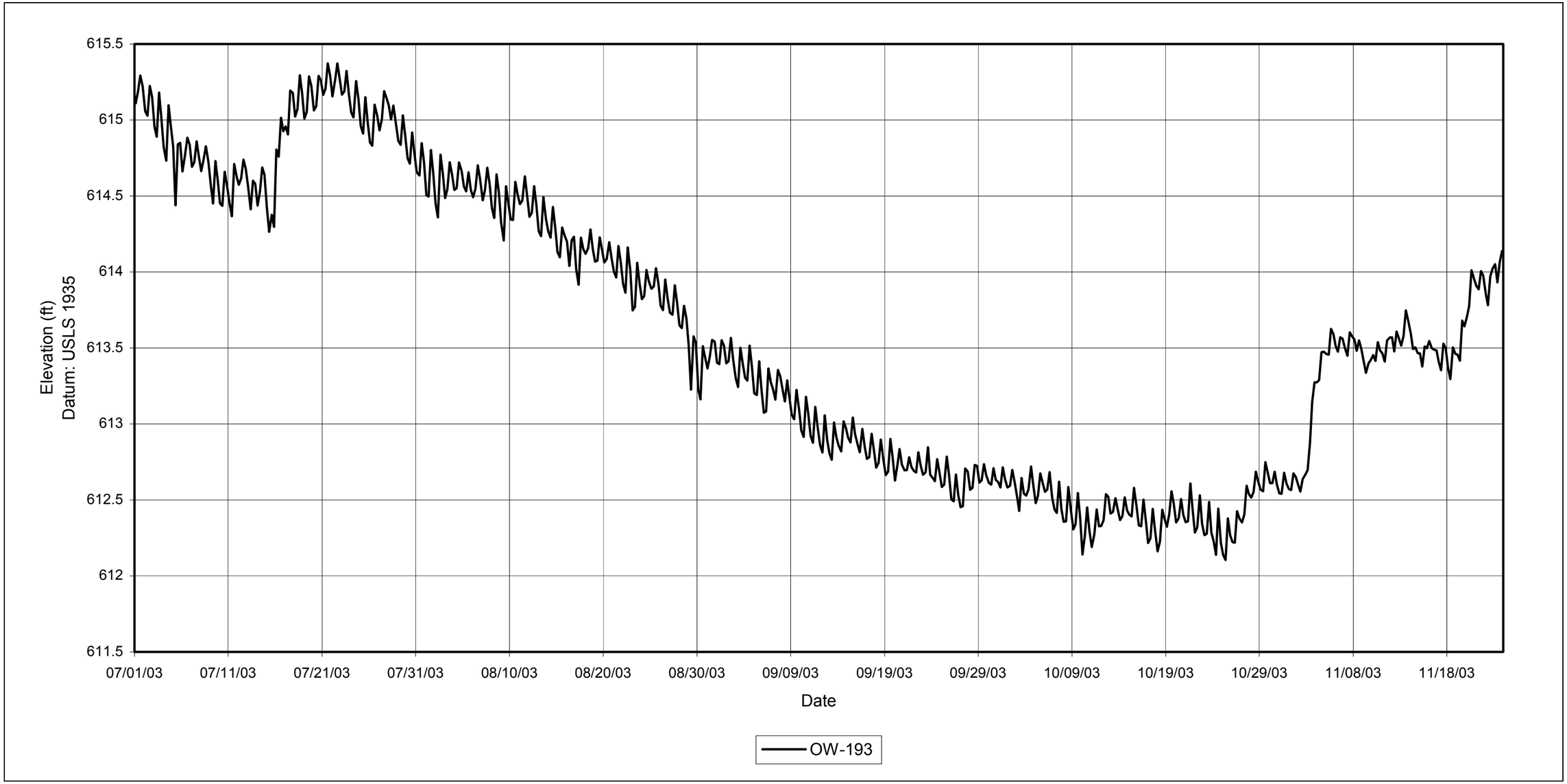

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FIGURE 21

OW-206, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

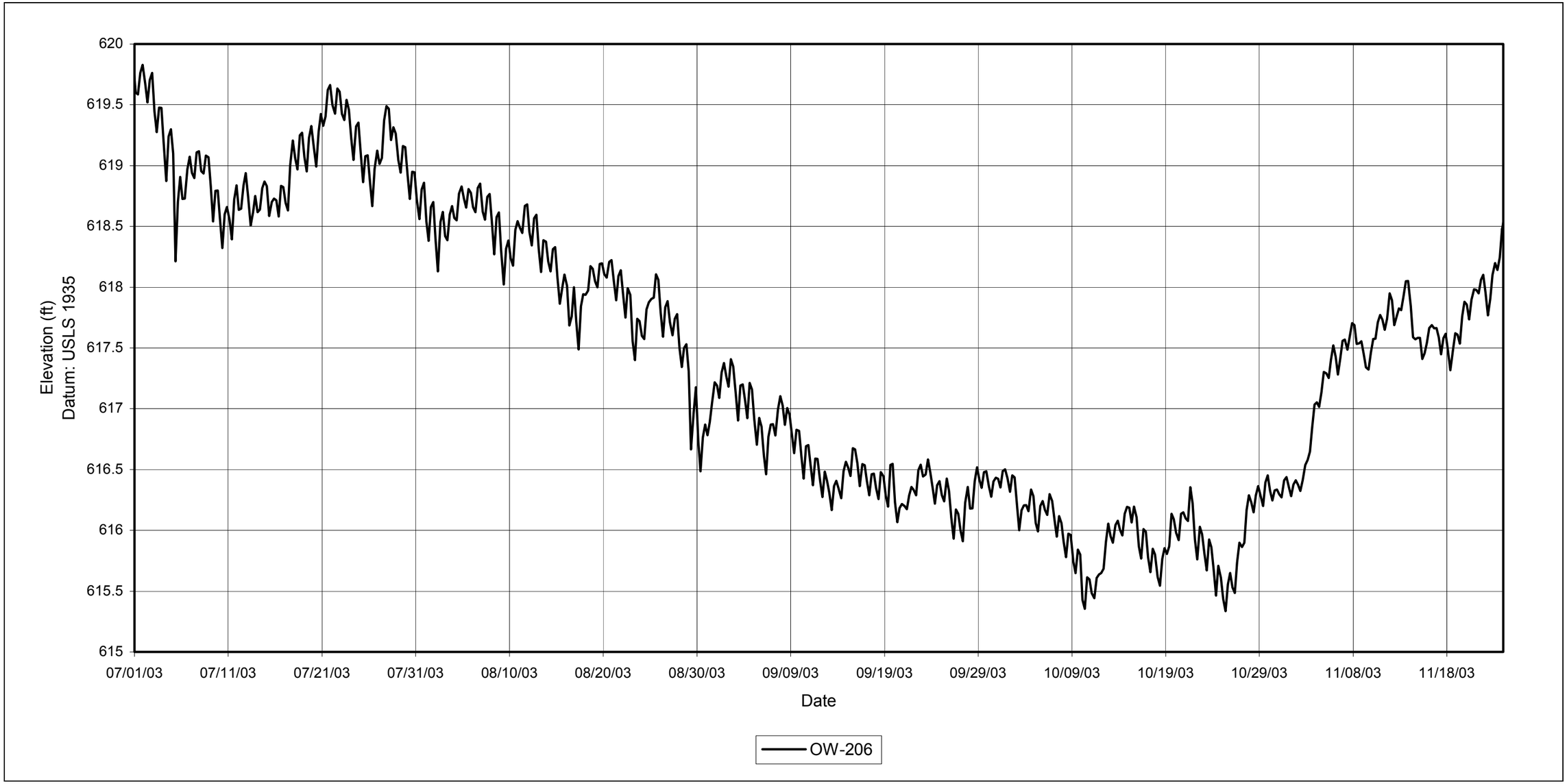

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FIGURE 22

OW-207, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

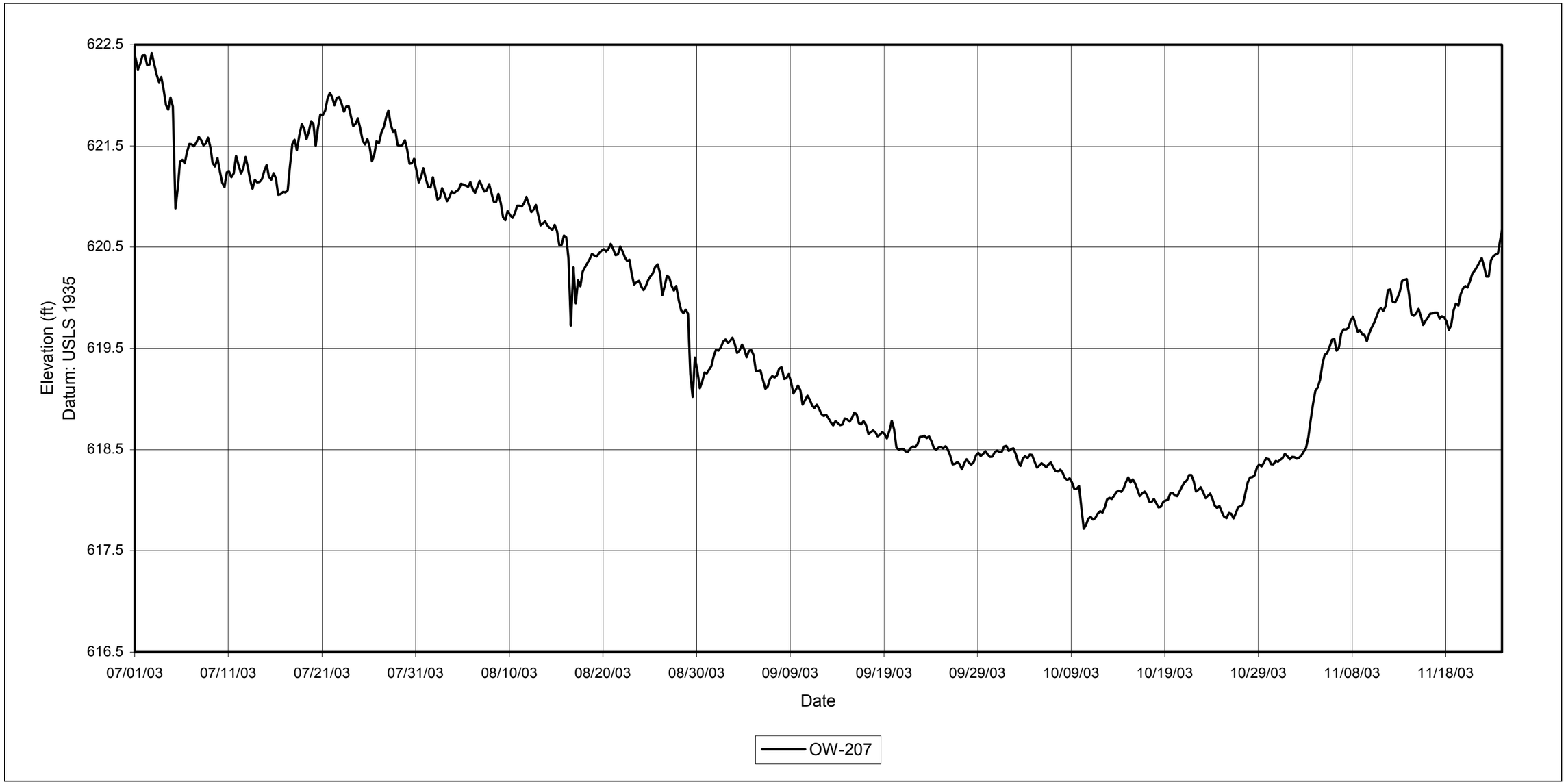

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FIGURE 23

OW-209, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003

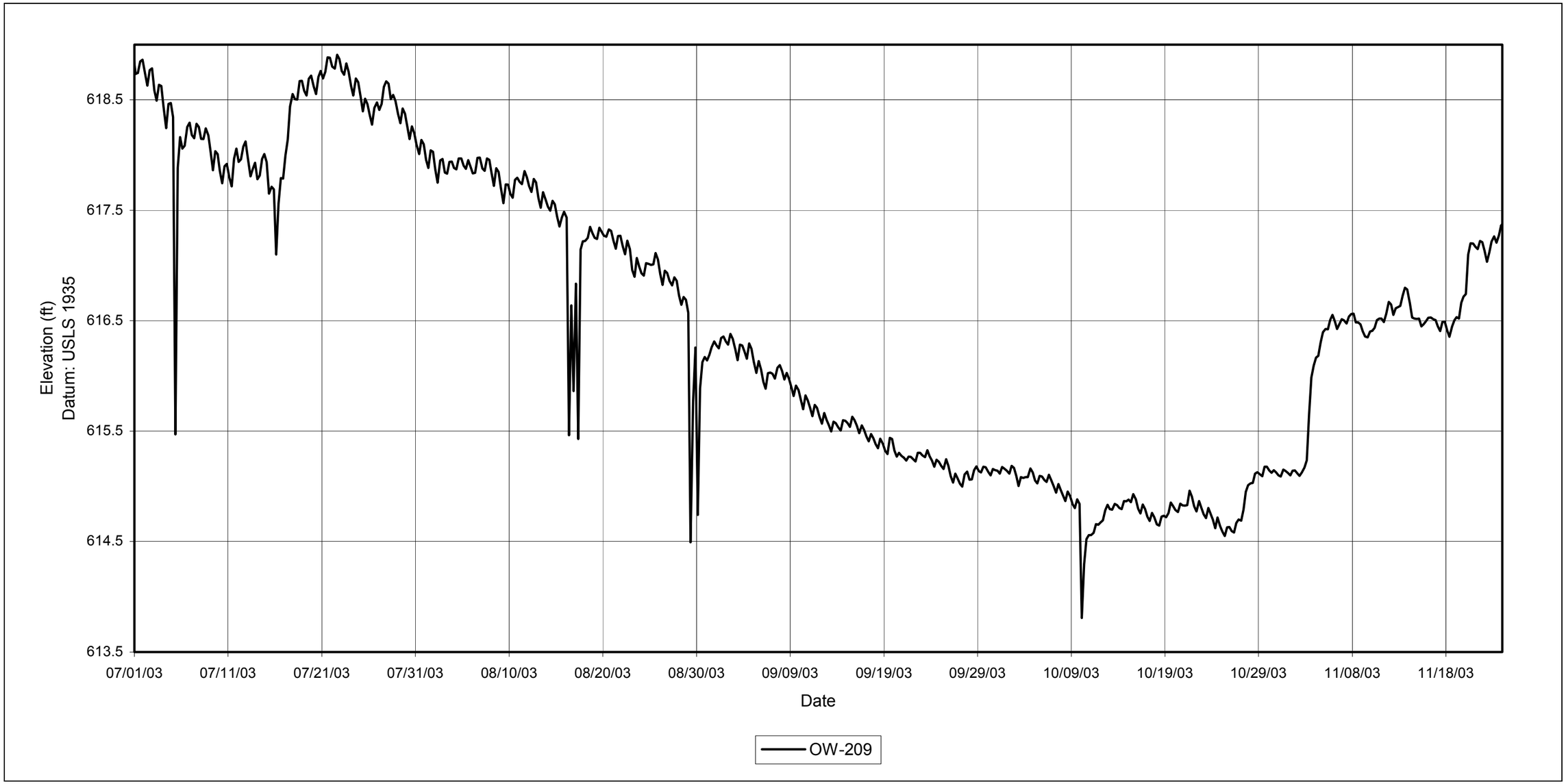

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FIGURE 24

OW-210, DATALOGGER GROUNDWATER ELEVATIONS , JULY-NOVEMBER 2003

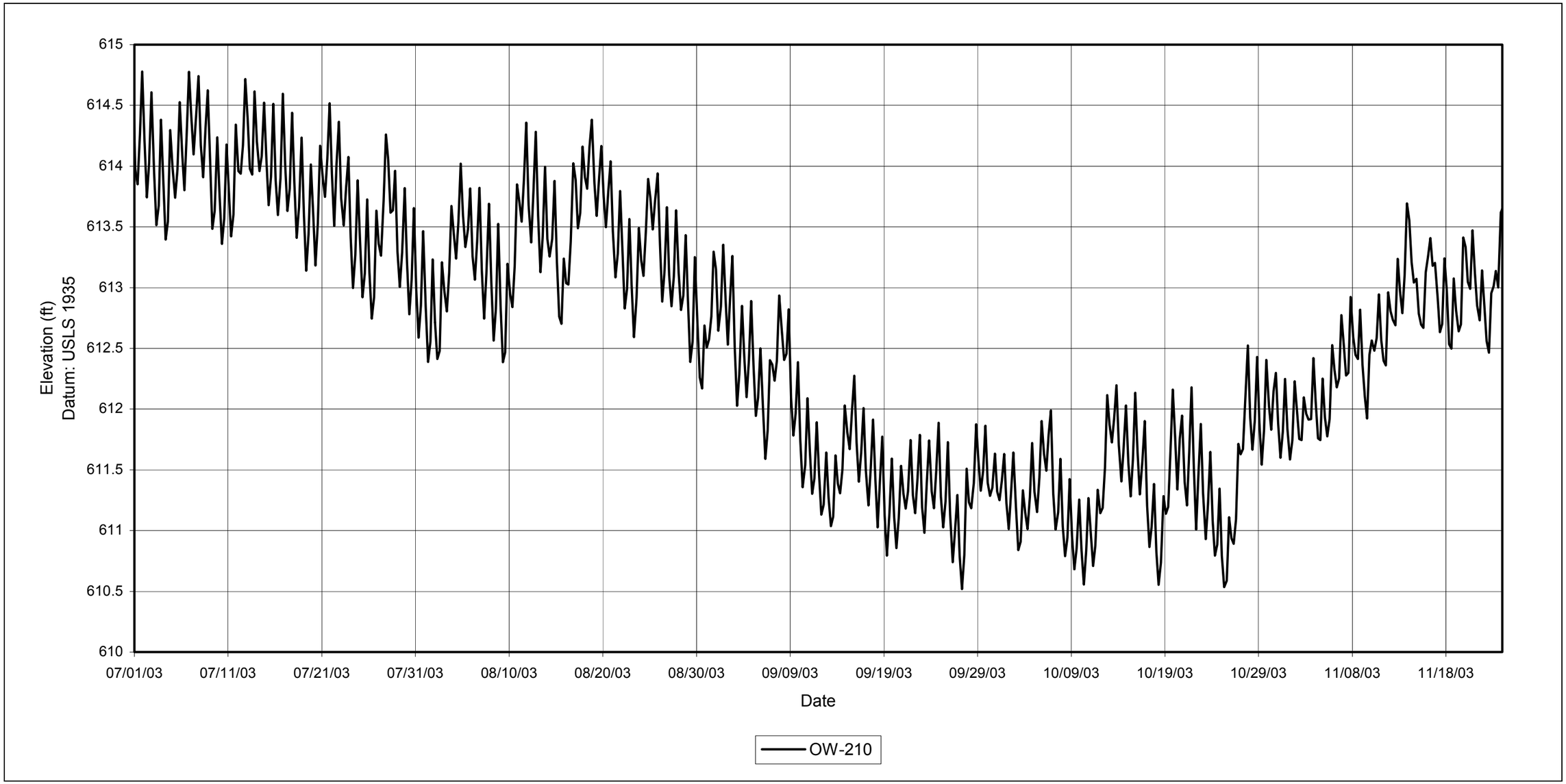

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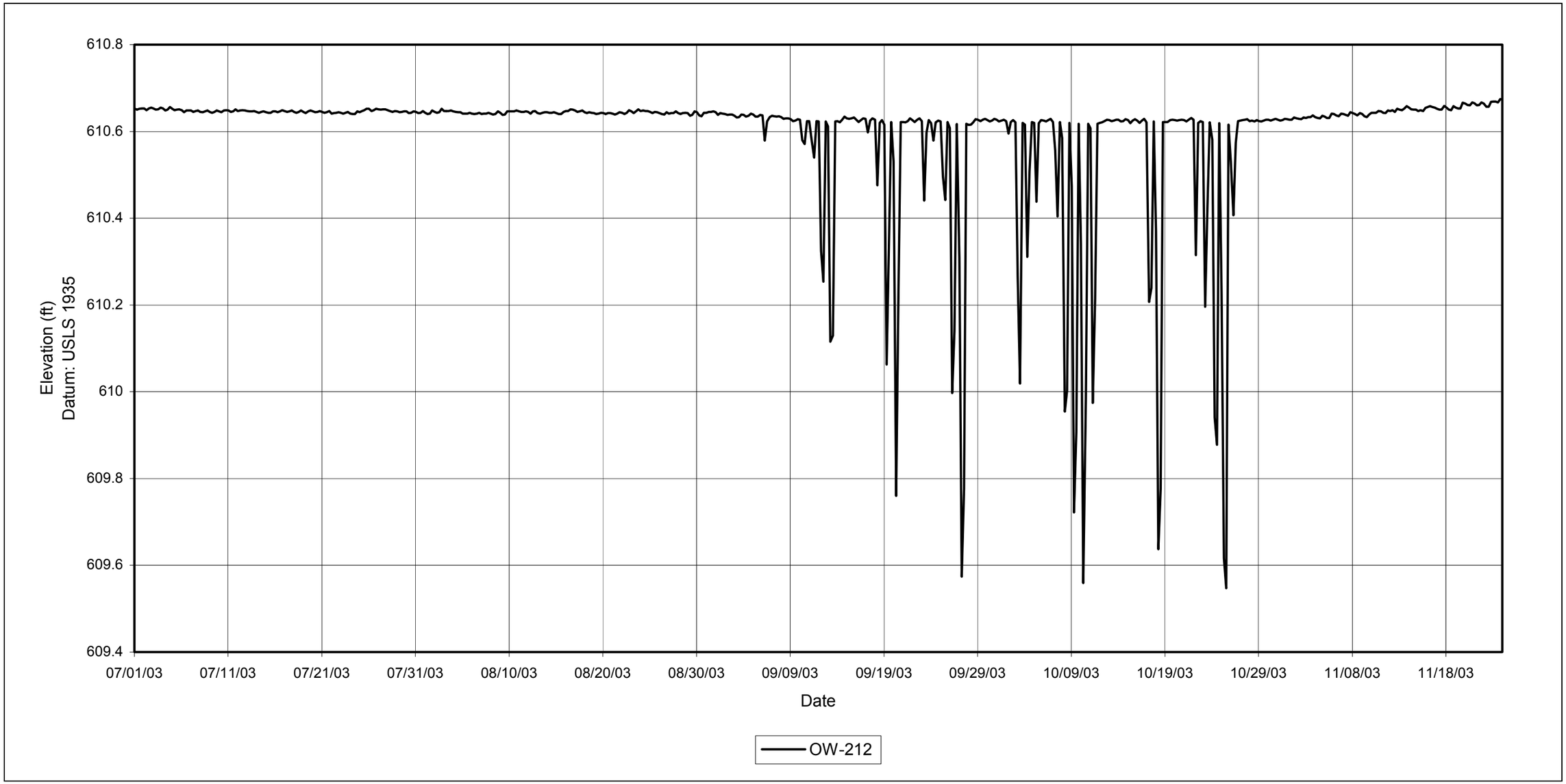
FIGURE 25

OW-212, DATALOGGER GROUNDWATER ELEVATIONS, JULY-NOVEMBER 2003



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APPENDIX M

SURFACE AND GROUNDWATER ANALYTICAL RESULTS, DATA USABILITY SUMMARY REPORTS, AND SUMMARY TABLES

APPENDIX M1 - SURFACE WATER SAMPLING EVENT OCTOBER 2003

APPENDIX M2 - SURFACE WATER SAMPLING EVENT NOVEMBER 2003

APPENDIX M3 - GROUNDWATER SAMPLING EVENT SEPTEMBER-OCTOBER 2003

APPENDIX M4 - GROUNDWATER SAMPLING EVENT DECEMBER 2003

APPENDIX M5 - GROUNDWATER SAMPLING EVENT FEBRUARY-MARCH 2004

APPENDIX M6 - SURFACE WATER SAMPLING EVENT MARCH 2004

APPENDIX M7 - GROUNDWATER SAMPLING EVENT APRIL 2004

APPENDIX M8 - SUMMARY OF ANALYTICAL RESULTS

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DATA USABILITY SUMMARY REPORT SURFACE WATER SAMPLING EVENT OCTOBER 2003

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999.

2.0 ANALYTICAL METHODS

The data being evaluated are from the October 7-9, 2003, sampling of nine surface water samples, one matrix spike/matrix spike duplicate (MS/MSD) pair, and three trip blanks. On October 28, 2003, two locations were resampled for monomethyl mercury analysis. The analytical laboratory that performed the analyses is Severn Trent Laboratories, located in Amherst, New York (STL-Buffalo). The samples were analyzed for the following parameters:

- Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260B;
- TCL semivolatile organic compounds (SVOCs) by EPA Method 8270C;
- TCL pesticides by EPA Method 8081A;
- TCL polychlorinated biphenyls (PCBs) by EPA Method 8082;
- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) by EPA Method 8290;
- arsenic, cadmium, calcium, lead, magnesium, potassium, and sodium by EPA Method 6010B;
- mercury by EPA Method 7470A;
- total alkalinity and bicarbonate alkalinity by EPA Method 310.1;
- chloride and sulfate by EPA Method 300.0;
- total hardness by EPA Method 130.2;
- monomethyl mercury by EPA Method 1630, modified;
- total dissolved solids (TDS) by EPA Method 160.1;

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- total organic carbon (TOC) by EPA Method 415.1;
- total suspended solids (TSS) by EPA Method 160.2;
- heterotrophic plate count by Standard Method 9215B; and
- total coliform by Standard Method 9222B.

The methods referenced are from: *Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846*, Final Update III, United States Environmental Protection Agency (USEPA), June 1997; *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, USEPA, Revised March 1983; *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, 1998; and Modified *Method 1630, Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS*, USEPA, Draft, August 1998.

STL-Buffalo subcontracted monomethyl mercury analyses to Brooks Rand, LLC, located in Seattle, WA; 2,3,7,8-TCDD analyses to STL-Knoxville, located in Knoxville, TN; and heterotrophic plate count and total coliform analyses to MTL-ACTS, Bureau Veritas Consumer Products Services, Inc., located in Buffalo, NY (ACTS).

All data were reviewed for completeness with regard to deliverables, holding times, and compliance with the referenced methods. The data were qualified following the guidelines presented in USEPA Region II *CLP Organics Data Review and Preliminary Review*, March 2001; USEPA Region II *Evaluation of Metals Data for the CLP Program*, SOP HW-2, Revision 11, January 1992; and USEPA Region II *SOP for SW-846 Method 8290, Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994. Qualifications applied to the data include "J/UJ" (estimated concentration/estimated quantitation limit) and "R" (rejected). A summary of sample qualification is presented on Table 1. The validated analytical results are presented on Tables 2 and 3. Definitions of USEPA Region II data qualifiers are presented in Attachment A. Definitions of sample concentration units are presented in Attachment B. Documentation supporting qualification of data is presented in Attachment C. This report discusses only data qualified due to nonconformance with method and/or project requirements.

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3.0 DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were in accordance with NYSDEC Analytical Services Protocol (ASP), June 2000, Category B requirements.

4.0 HOLDING TIMES

Sample SW03-005 required re-extraction for pesticide analysis, and samples SW03-011 and SW03-005 required re-extraction for PCB analysis because of surrogate recovery outliers in the initial analyses. The re-extraction of these samples was performed one day past the USEPA Region II technical holding time of seven days from collection. The non-detect pesticide and/or PCB results for these samples were qualified "UJ" for the holding time exceedances.

Sample SW03-004 required a secondary dilution analysis for sulfate. Due to an oversight on the part of the lab, the sample dilution was analyzed six days past the method holding time of 28 days from collection. The sulfate result was qualified "J" for the holding time exceedance.

5.0 NONCONFORMANCES

The following quality control (QC) nonconformances were noted during data review:

- Initial and Continuing Calibrations

  The initial calibration (ICAL) average relative response factors (RRF) for the VOCs acetone and 1,2-dibromo-3-chloropropane were below the USEPA Region II QC limit of 0.05. All non-detect results for these compounds were qualified "R", and the detected results for these compounds were qualified "J", as listed on Table 1.

  The percent difference (%D) between the ICAL and continuing calibration (CCAL) standard RRFs for the VOCs bromomethane and/or 1,1,2-trichloro-1,2,2-trifluoroethane exceeded the USEPA Region II QC of 25%. The results for these compounds in the samples listed on Table 1 were qualified "UJ."

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The %D between the ICAL and CCAL standard RRF for the SVOC atrazine exceeded the USEPA Region II QC limit of 25%. The atrazine results in the samples listed on Table 1 were qualified "UJ."

- Surrogate Recoveries

The initial pesticides analysis for sample SW03-005 exhibited surrogate recoveries below QC limits, with a recovery of less than 10% for the surrogate decachlorobiphenyl. The sample was re-extracted (past the holding time) with acceptable surrogate recoveries. Because the results from the initial analysis would have been rejected, the non-detect results from the re-analyses are reported on Table 2 and qualified "UJ" for the holding time exceedance, as previously mentioned.

The initial PCB analysis for samples SW03-005 and SW03-011 exhibited surrogate recoveries below QC limits. It was noted in the PCB extraction log that the equipment used to add surrogates to the samples prior to extraction was not functioning properly. The samples were re-extracted (past the holding time) with acceptable surrogate recovery. Because the initial extracts of the samples were not properly spiked with surrogates, the non-detect results from the re-analyses are reported on Table 2 and qualified "UJ" for the holding time exceedance, as previously stated.

- Pesticide Identification

The %D between the concentration of 4,4'-DDT detected on the primary column and confirmation column for sample SW03-004 exceeded 200%. The 4,4'-DDT result was rejected (i.e., qualified "R").

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- Serial Dilutions

  The %D in concentration between sample SW03-009 and the serial dilution analysis performed on this sample exceeded 10% for the metal sodium (Na). The results for Na greater than 10 times the instrument detection limit (IDL) in the associated samples were qualified "J", as listed on Table 1.

- Contract-Required Detection Limit (CRDL) Standards

  The CRDL standard recoveries for arsenic (As) and mercury (Hg) were below the lower control limit of 80%. The results for As and/or Hg in the associated samples were qualified "J" or "UJ", as listed on Table 1. Qualification was required because the concentrations in these samples were less than two times the CRDL concentrations.

6.0 SAMPLE RESULTS AND REPORTING

All quantitation limits were reported in accordance with method requirements and were adjusted for sample size and dilution factors. Several organic sample results were qualified "J" by the laboratory, indicating estimated concentrations below the quantitation limits. Monomethyl mercury results for several samples were qualified "B" by the laboratory, indicating estimated concentrations below the quantitation limits.

The final results as listed on the laboratory reporting forms (i.e., Form 1) were in agreement with the raw data, and no transcription/calculation errors were detected except for the following:

- The laboratory reported results for the VOC vinyl acetate and SVOCs benzoic acid and benzyl alcohol. These compounds are not part of the TCL, and therefore are not included on Tables 2 or 3. The laboratory did not report the TCL SVOC carbazole on Form 1. However, information for carbazole was provided in the raw data, and the laboratory verified that carbazole was not detected in any of the samples. Therefore, the results for carbazole are reported on Tables 2 and 3.

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- The laboratory did not report the TCL pesticide endrin ketone on Form 1. In addition, results were reported for technical chlordane, as opposed to the requested parameters alpha-chlordane and gamma-chlordane. However, information for these compounds was provided in the raw data, and the laboratory verified that these compounds were not detected in any of the samples. Therefore, the results for endrin ketone, alpha-chlordane, and gamma-chlordane are reported in Tables 2 and 3.
- ACTS reported heterotrophic plate count results in colony-forming units per milliliter (CFU/mL). The results transcribed by STL to the STL Form 1s were erroneously reported as colony-forming units per gram (CFU/G). The STL Form 1s have been corrected manually to CFU/mL.
- ACTS reported positive heterotrophic plate count results for samples SW03-001 and SW03-004. The results transcribed by STL to the STL Form 1s were erroneously reported as non-detect (U) on the STL Form 1s. The "U" was therefore crossed off because the results in these samples are detections.
- ACTS reported total coliform results in colonies per 100 milliliters (C/100mL). The results transcribed by STL to the STL Form 1s were erroneously reported as colony-forming units per 0.1 liter (CFU/0.1L). The STL Form 1s have been corrected manually to colonies per 0.1L (C/0.1L).

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified "J/UJ"(estimated/estimated quantitation limit) are considered conditionally usable. Those results qualified "R" (rejected) are unusable. All other sample results are usable as reported.

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TABLE 1
SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
SW03-001, SW03-004, SW03-005, SW03-006, SW03-007, SW03-008, SW03-009, SW03-010, SW03-011, TB3-10/7/03, TB4-10/8/03, TB4-10/9/03	VOC	ICAL RRF <0.05 for acetone and 1,2-dibromo-3-chloropropane.	Qualify non-detect results "R."
SW03-001	VOC	ICAL RRF <0.05 for acetone.	Qualify detected result "J."
SW03-01, SW03-004, SW03-006, SW03-007, SW03-008, SW03-009, SW03-010, and TB3-10/7/03, TB4-10/8/03.	VOC	CCAL >25 %D for bromomethane and 1,1,2-trichloro-1,2,2-trifluoroethane.	Qualify non-detect results "UJ."
SW03-005, SW03-011, and TB4-10/9/03	VOC	CCAL >25 %D for 1,1,2-trichloro-1,2,2-trifluoroethane.	Qualify non-detect results "UJ."
SW03-005 and SW03-011	SVOC	CCAL >25 %D for atrazine.	Qualify non-detect results "UJ."
SW03-005	Pesticides	Technical holding time extraction exceedance.	Qualify non-detect results "UJ."
SW03-004	Pesticide	%D between column concentrations > 200% for 4,4'-DDT.	Qualify detected result "R."
SW03-005, SW03-011	PCBs	Technical holding time extraction exceedance.	Qualify non-detect results "UJ."
SW03-006, SW03-007, SW03-008, SW03-009, SW03-010	Metals	Serial dilution outlier for sodium.	Qualify detected results >10X IDL "J."
SW03-001, SW03-004, SW03-006, SW03-007, SW03-008, SW03-009, SW03-010	Metals	Mercury recovery below 80% in the CRDL standard.	Qualify non-detect results "UJ."
SW03-001, SW03-004, SW03-005, SW03-011	Metals	Arsenic recovery below 80% in the CRDL standard.	Qualify non-detect results "UJ."
SW03-004	Sulfate	Holding time exceedance.	Qualify detected result "J."

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Sample ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	10/08/03	10/28/03	10/09/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	NA	1.0 UJ	NA	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	NA	R	NA	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
2-Hexanone	UG/L	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	UG/L	2.4 J	NA	R	NA	R
Benzene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Bromodichloromethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Sample ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	10/08/03	10/28/03	10/09/03
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Bromomethane	UG/L	1.0 UJ	NA	1.0 UJ	NA	1.0 U
Carbon Disulfide	UG/L	1.1	NA	1.0 U	NA	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Chlorobenzene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Chloroethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Chloroform	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Cyclohexane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Ethylbenzene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Methyl acetate	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	NA	5.0 U	NA	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Methylcyclohexane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Methylene chloride	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Styrene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Tetrachloroethene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Toluene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Total Xylenes	UG/L	3.0 U	NA	3.0 U	NA	3.0 U
Trichloroethene	UG/L	1.0 U	NA	1.0 U	NA	1.0 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Sample ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	10/08/03	10/28/03	10/09/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Vinyl Chloride	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	NA	10 U	NA	9 U
2,4,5-Trichlorophenol	UG/L	10 U	NA	10 U	NA	9 U
2,4,6-Trichlorophenol	UG/L	10 U	NA	10 U	NA	9 U
2,4-Dichlorophenol	UG/L	10 U	NA	10 U	NA	9 U
2,4-Dimethylphenol	UG/L	10 U	NA	10 U	NA	9 U
2,4-Dinitrophenol	UG/L	49 U	NA	50 U	NA	47 U
2,4-Dinitrotoluene	UG/L	10 U	NA	10 U	NA	9 U
2,6-Dinitrotoluene	UG/L	10 U	NA	10 U	NA	9 U
2-Chloronaphthalene	UG/L	10 U	NA	10 U	NA	9 U
2-Chlorophenol	UG/L	10 U	NA	10 U	NA	9 U
2-Methylnaphthalene	UG/L	10 U	NA	10 U	NA	9 U
2-Methylphenol (o-cresol)	UG/L	10 U	NA	10 U	NA	9 U
2-Nitroaniline	UG/L	49 U	NA	50 U	NA	47 U
2-Nitrophenol	UG/L	10 U	NA	10 U	NA	9 U
3,3-Dichlorobenzidine	UG/L	20 U	NA	20 U	NA	19 U
3-Nitroaniline	UG/L	49 U	NA	50 U	NA	47 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	NA	50 U	NA	47 U
4-Bromophenyl-phenylether	UG/L	10 U	NA	10 U	NA	9 U
4-Chloro-3-methylphenol	UG/L	10 U	NA	10 U	NA	9 U
4-Chloroaniline	UG/L	10 U	NA	10 U	NA	9 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 11/20/03_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Sample ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	10/08/03	10/28/03	10/09/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	NA	10 U	NA	9 U
4-Methylphenol (p-cresol)	UG/L	10 U	NA	10 U	NA	9 U
4-Nitroaniline	UG/L	49 U	NA	50 U	NA	47 U
4-Nitrophenol	UG/L	49 U	NA	50 U	NA	47 U
Acenaphthene	UG/L	10 U	NA	10 U	NA	9 U
Acenaphthylene	UG/L	10 U	NA	10 U	NA	9 U
Acetophenone	UG/L	10 U	NA	10 U	NA	9 U
Anthracene	UG/L	10 U	NA	10 U	NA	9 U
Atrazine	UG/L	10 U	NA	10 U	NA	9 UJ
Benzaldehyde	UG/L	49 U	NA	50 U	NA	47 U
Benzo(a)anthracene	UG/L	10 U	NA	10 U	NA	9 U
Benzo(a)pyrene	UG/L	10 U	NA	10 U	NA	9 U
Benzo(b)fluoranthene	UG/L	10 U	NA	10 U	NA	9 U
Benzo(g,h,i)perylene	UG/L	10 U	NA	10 U	NA	9 U
Benzo(k)fluoranthene	UG/L	10 U	NA	10 U	NA	9 U
bis(2-Chloroethoxy)methane	UG/L	10 U	NA	10 U	NA	9 U
bis(2-Chloroethyl)ether	UG/L	10 U	NA	10 U	NA	9 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	NA	10 U	NA	9 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	NA	10 U	NA	9 U
Butylbenzylphthalate	UG/L	10 U	NA	10 U	NA	9 U
Caprolactam	UG/L	10 U	NA	10 U	NA	9 U
Carbazole	UG/L	10 U	NA	10 U	NA	9 U
Chrysene	UG/L	10 U	NA	10 U	NA	9 U

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Sample ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	10/08/03	10/28/03	10/09/03
Parameter	**Units**					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	NA	10 U	NA	9 U
Dibenzofuran	UG/L	10 U	NA	10 U	NA	9 U
Diethylphthalate	UG/L	10 U	NA	10 U	NA	9 U
Dimethylphthalate	UG/L	10 U	NA	10 U	NA	9 U
Di-n-butylphthalate	UG/L	10 U	NA	10 U	NA	9 U
Di-n-octylphthalate	UG/L	10 U	NA	10 U	NA	9 U
Fluoranthene	UG/L	10 U	NA	10 U	NA	9 U
Fluorene	UG/L	10 U	NA	10 U	NA	9 U
Hexachlorobenzene	UG/L	10 U	NA	10 U	NA	9 U
Hexachlorobutadiene	UG/L	10 U	NA	10 U	NA	9 U
Hexachlorocyclopentadiene	UG/L	23 U	NA	24 U	NA	22 U
Hexachloroethane	UG/L	10 U	NA	10 U	NA	9 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	NA	10 U	NA	9 U
Isophorone	UG/L	10 U	NA	10 U	NA	9 U
Naphthalene	UG/L	10 U	NA	10 U	NA	9 U
Nitrobenzene	UG/L	10 U	NA	10 U	NA	9 U
N-Nitroso-di-n-propylamine	UG/L	10 U	NA	10 U	NA	9 U
N-Nitrosodiphenylamine	UG/L	10 U	NA	10 U	NA	9 U
Pentachlorophenol	UG/L	49 U	NA	50 U	NA	47 U
Phenanthrene	UG/L	10 U	NA	10 U	NA	9 U
Phenol	UG/L	10 U	NA	10 U	NA	9 U
Pyrene	UG/L	10 U	NA	10 U	NA	9 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Sample ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	10/08/03	10/28/03	10/09/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
4,4-DDE	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
4,4-DDT	UG/L	0.050 U	NA	R	NA	0.050 UJ
Aldrin	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
alpha-BHC	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
alpha-Chlordane	UG/L	0.50 U	NA	0.50 U	NA	0.50 UJ
beta-BHC	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
delta-BHC	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Dieldrin	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Endosulfan I	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Endosulfan II	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Endosulfan Sulfate	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Endrin	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Endrin aldehyde	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Endrin ketone	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
gamma-BHC (Lindane)	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
gamma-Chlordane	UG/L	0.50 U	NA	0.50 U	NA	0.50 UJ
Heptachlor	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Heptachlor epoxide	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Methoxychlor	UG/L	0.050 U	NA	0.050 U	NA	0.050 UJ
Toxaphene	UG/L	1.0 U	NA	1.0 U	NA	1.0 UJ
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	NA	0.47 U	NA	0.48 UJ

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Sample ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	10/08/03	10/28/03	10/09/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	NA	0.47 U	NA	0.48 UJ
Aroclor 1232	UG/L	0.48 U	NA	0.47 U	NA	0.48 UJ
Aroclor 1242	UG/L	0.48 U	NA	0.47 U	NA	0.48 UJ
Aroclor 1248	UG/L	0.48 U	NA	0.47 U	NA	0.48 UJ
Aroclor 1254	UG/L	0.48 U	NA	0.47 U	NA	0.48 UJ
Aroclor 1260	UG/L	0.48 U	NA	0.47 U	NA	0.48 UJ
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	5.1 U	NA	2.9 U	NA	2.3 U
Metals						
Arsenic	UG/L	10.0 UJ	NA	10.0 UJ	NA	10.0 UJ
Cadmium	UG/L	1.0 U	NA	1.0 U	NA	1.0 U
Calcium	UG/L	60,800	NA	107,000	NA	85,900
Lead	UG/L	6.0 U	NA	24.4	NA	6.0 U
Magnesium	UG/L	22,600	NA	31,000	NA	30,900
Mercury	UG/L	0.200 UJ	NA	0.200 UJ	NA	0.200 U
Potassium	UG/L	2,380	NA	4,910	NA	2,520
Sodium	UG/L	23,800	NA	2,510	NA	56,600
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	117	NA	218	NA	215
Alkalinity, Total (as CaCO3)	MG/L	117	NA	218	NA	215
Chloride	MG/L	35.8	NA	2.2	NA	83.6
Hardness	MG/L	290	NA	830	NA	368
Monomethyl Mercury	NG/L	NA	0.085 B	NA	0.120 B	0.25 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 11/20/03_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Sample ID		SW03-001	SW03-001	SW03-004	SW03-004	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	10/08/03	10/28/03	10/09/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	85.9	NA	201 J	NA	90.8
Total Dissolved Solids	MG/L	318	NA	534	NA	546
Total Organic Carbon (TOC)	MG/L	1.4	NA	21.3	NA	3.2
Total Suspended Solids	MG/L	4.0 U	NA	457	NA	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1,300	NA	31,000	NA	1,500
Total Coliform	C/100 ML	18,000	NA	2,000	NA	120

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Sample ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	10/07/03	10/07/03	10/07/03	10/07/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Sample ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	10/07/03	10/07/03	10/07/03	10/07/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Sample ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	10/07/03	10/07/03	10/07/03	10/07/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9 U	9 U	9 U	9 U	9 U
2,4,5-Trichlorophenol	UG/L	9 U	9 U	9 U	9 U	9 U
2,4,6-Trichlorophenol	UG/L	9 U	9 U	9 U	9 U	9 U
2,4-Dichlorophenol	UG/L	9 U	9 U	9 U	9 U	9 U
2,4-Dimethylphenol	UG/L	9 U	9 U	9 U	9 U	9 U
2,4-Dinitrophenol	UG/L	47 U	47 U	47 U	47 U	47 U
2,4-Dinitrotoluene	UG/L	9 U	9 U	9 U	9 U	9 U
2,6-Dinitrotoluene	UG/L	9 U	9 U	9 U	9 U	9 U
2-Chloronaphthalene	UG/L	9 U	9 U	9 U	9 U	9 U
2-Chlorophenol	UG/L	9 U	9 U	9 U	9 U	9 U
2-Methylnaphthalene	UG/L	9 U	9 U	9 U	9 U	9 U
2-Methylphenol (o-cresol)	UG/L	9 U	9 U	9 U	9 U	9 U
2-Nitroaniline	UG/L	47 U	47 U	47 U	47 U	47 U
2-Nitrophenol	UG/L	9 U	9 U	9 U	9 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	47 U	47 U	47 U	47 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	47 U	47 U	47 U	47 U
4-Bromophenyl-phenylether	UG/L	9 U	9 U	9 U	9 U	9 U
4-Chloro-3-methylphenol	UG/L	9 U	9 U	9 U	9 U	9 U
4-Chloroaniline	UG/L	9 U	9 U	9 U	9 U	9 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Sample ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	10/07/03	10/07/03	10/07/03	10/07/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	9 U	9 U	9 U	9 U	9 U
4-Methylphenol (p-cresol)	UG/L	9 U	9 U	9 U	9 U	9 U
4-Nitroaniline	UG/L	47 U	47 U	47 U	47 U	47 U
4-Nitrophenol	UG/L	47 U	47 U	47 U	47 U	47 U
Acenaphthene	UG/L	9 U	9 U	9 U	9 U	9 U
Acenaphthylene	UG/L	9 U	9 U	9 U	9 U	9 U
Acetophenone	UG/L	9 U	9 U	9 U	9 U	9 U
Anthracene	UG/L	9 U	9 U	9 U	9 U	9 U
Atrazine	UG/L	9 U	9 U	9 U	9 U	9 U
Benzaldehyde	UG/L	47 U	47 U	47 U	47 U	47 U
Benzo(a)anthracene	UG/L	9 U	9 U	9 U	9 U	9 U
Benzo(a)pyrene	UG/L	9 U	9 U	9 U	9 U	9 U
Benzo(b)fluoranthene	UG/L	9 U	9 U	9 U	9 U	9 U
Benzo(g,h,i)perylene	UG/L	9 U	9 U	9 U	9 U	9 U
Benzo(k)fluoranthene	UG/L	9 U	9 U	9 U	9 U	9 U
bis(2-Chloroethoxy)methane	UG/L	9 U	9 U	9 U	9 U	9 U
bis(2-Chloroethyl)ether	UG/L	9 U	9 U	9 U	9 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	9 U	9 U	9 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	9 U	9 U	9 U	9 U
Butylbenzylphthalate	UG/L	9 U	9 U	9 U	9 U	9 U
Caprolactam	UG/L	9 U	9 U	9 U	9 U	9 U
Carbazole	UG/L	9 U	9 U	9 U	9 U	9 U
Chrysene	UG/L	9 U	9 U	9 U	9 U	9 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Sample ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	10/07/03	10/07/03	10/07/03	10/07/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	9 U	9 U	9 U	9 U	9 U
Dibenzofuran	UG/L	9 U	9 U	9 U	9 U	9 U
Diethylphthalate	UG/L	9 U	9 U	9 U	9 U	9 U
Dimethylphthalate	UG/L	9 U	9 U	9 U	9 U	9 U
Di-n-butylphthalate	UG/L	9 U	9 U	9 U	9 U	9 U
Di-n-octylphthalate	UG/L	9 U	9 U	9 U	9 U	9 U
Fluoranthene	UG/L	9 U	9 U	9 U	9 U	9 U
Fluorene	UG/L	9 U	9 U	9 U	9 U	9 U
Hexachlorobenzene	UG/L	9 U	9 U	9 U	9 U	9 U
Hexachlorobutadiene	UG/L	9 U	9 U	9 U	9 U	9 U
Hexachlorocyclopentadiene	UG/L	22 U	22 U	22 U	22 U	22 U
Hexachloroethane	UG/L	9 U	9 U	9 U	9 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	9 U	9 U	9 U	9 U
Isophorone	UG/L	9 U	9 U	9 U	9 U	9 U
Naphthalene	UG/L	9 U	9 U	9 U	9 U	9 U
Nitrobenzene	UG/L	9 U	9 U	9 U	9 U	9 U
N-Nitroso-di-n-propylamine	UG/L	9 U	9 U	9 U	9 U	9 U
N-Nitrosodiphenylamine	UG/L	9 U	9 U	9 U	9 U	9 U
Pentachlorophenol	UG/L	47 U	47 U	47 U	47 U	47 U
Phenanthrene	UG/L	9 U	9 U	9 U	9 U	9 U
Phenol	UG/L	9 U	9 U	9 U	9 U	9 U
Pyrene	UG/L	9 U	9 U	9 U	9 U	9 U

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Sample ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	10/07/03	10/07/03	10/07/03	10/07/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Sample ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	10/07/03	10/07/03	10/07/03	10/07/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1232	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1242	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1248	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1254	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1260	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	4.5 U	2.7 U	1.5 U	1.9 U	3.1 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	34,800	34,000	33,900	30,300	34,900
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	8,910	8,580	8,620	7,670	8,800
Mercury	UG/L	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ	0.200 UJ
Potassium	UG/L	1,640	1,600	1,600	1,470	1,710
Sodium	UG/L	11,000 J	10,500 J	10,100 J	9,880 J	11,900 J
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	90.2	71.5	88.7	76.0	59.9
Alkalinity, Total (as CaCO3)	MG/L	90.2	71.5	88.7	76.0	59.9
Chloride	MG/L	17.2	16.6	16.7	22.4	18.9
Hardness	MG/L	127	211	179	209	147
Monomethyl Mercury	NG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Sample ID		SW03-006	SW03-007	SW03-008	SW03-009	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	10/07/03	10/07/03	10/07/03	10/07/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	25.8	24.6	24.0	24.6	26.6
Total Dissolved Solids	MG/L	146	140	142	146	138
Total Organic Carbon (TOC)	MG/L	1.2	1.5	1.3	1.4	1.5
Total Suspended Solids	MG/L	4.0 U	5.0	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	360	740	740	1,900	870
Total Coliform	C/100 ML	180	20 U	860	14,000	410

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-011
Sample ID		SW03-011
Matrix		Surface Water
Depth Interval (ft)		-
Date Sampled		10/09/03
Parameter	**Units**	
Volatile Organic Compounds		
1,1,1-Trichloroethane	UG/L	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U
1,1-Dichloroethane	UG/L	1.0 U
1,1-Dichloroethene	UG/L	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U
1,2-Dichloroethane	UG/L	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U
1,2-Dichloropropane	UG/L	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U
2-Hexanone	UG/L	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U
Acetone	UG/L	R
Benzene	UG/L	1.0 U
Bromodichloromethane	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-011
Sample ID		SW03-011
Matrix		Surface Water
Depth Interval (ft)		-
Date Sampled		10/09/03
Parameter	**Units**	
Volatile Organic Compounds		
Bromoform	UG/L	1.0 U
Bromomethane	UG/L	1.0 U
Carbon Disulfide	UG/L	1.0 U
Carbon Tetrachloride	UG/L	1.0 U
Chlorobenzene	UG/L	1.0 U
Chloroethane	UG/L	1.0 U
Chloroform	UG/L	1.0 U
Chloromethane	UG/L	1.0 U
Cyclohexane	UG/L	1.0 U
Dibromochloromethane	UG/L	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U
Ethylbenzene	UG/L	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U
Methyl acetate	UG/L	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U
Methylcyclohexane	UG/L	1.0 U
Methylene chloride	UG/L	1.0 U
Styrene	UG/L	1.0 U
Tetrachloroethene	UG/L	1.0 U
Toluene	UG/L	1.0 U
Total Xylenes	UG/L	3.0 U
Trichloroethene	UG/L	1.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-011
Sample ID		SW03-011
Matrix		Surface Water
Depth Interval (ft)		-
Date Sampled		10/09/03
Parameter	**Units**	
Volatile Organic Compounds		
Trichlorofluoromethane	UG/L	1.0 U
Vinyl Chloride	UG/L	1.0 U
Semivolatile Organic Compounds		
1,1-Biphenyl	UG/L	10 U
2,4,5-Trichlorophenol	UG/L	10 U
2,4,6-Trichlorophenol	UG/L	10 U
2,4-Dichlorophenol	UG/L	10 U
2,4-Dimethylphenol	UG/L	10 U
2,4-Dinitrophenol	UG/L	50 U
2,4-Dinitrotoluene	UG/L	10 U
2,6-Dinitrotoluene	UG/L	10 U
2-Chloronaphthalene	UG/L	10 U
2-Chlorophenol	UG/L	10 U
2-Methylnaphthalene	UG/L	10 U
2-Methylphenol (o-cresol)	UG/L	10 U
2-Nitroaniline	UG/L	50 U
2-Nitrophenol	UG/L	10 U
3,3-Dichlorobenzidine	UG/L	20 U
3-Nitroaniline	UG/L	50 U
4,6-Dinitro-2-methylphenol	UG/L	50 U
4-Bromophenyl-phenylether	UG/L	10 U
4-Chloro-3-methylphenol	UG/L	10 U
4-Chloroaniline	UG/L	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

Printed: 4/13/2004 10:30:57 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-011
Sample ID		SW03-011
Matrix		Surface Water
Depth Interval (ft)		-
Date Sampled		10/09/03
Parameter	**Units**	
Semivolatile Organic Compounds		
4-Chlorophenyl-phenylether	UG/L	10 U
4-Methylphenol (p-cresol)	UG/L	10 U
4-Nitroaniline	UG/L	50 U
4-Nitrophenol	UG/L	50 U
Acenaphthene	UG/L	10 U
Acenaphthylene	UG/L	10 U
Acetophenone	UG/L	10 U
Anthracene	UG/L	10 U
Atrazine	UG/L	10 UJ
Benzaldehyde	UG/L	50 U
Benzo(a)anthracene	UG/L	10 U
Benzo(a)pyrene	UG/L	10 U
Benzo(b)fluoranthene	UG/L	10 U
Benzo(g,h,i)perylene	UG/L	10 U
Benzo(k)fluoranthene	UG/L	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U
bis(2-Chloroethyl)ether	UG/L	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U
Butylbenzylphthalate	UG/L	10 U
Caprolactam	UG/L	10 U
Carbazole	UG/L	10 U
Chrysene	UG/L	10 U

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

Printed: 4/13/2004 10:31:00 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-011
Sample ID		SW03-011
Matrix		Surface Water
Depth Interval (ft)		-
Date Sampled		10/09/03
Parameter	**Units**	
Semivolatile Organic Compounds		
Dibenz(a,h)anthracene	UG/L	10 U
Dibenzofuran	UG/L	10 U
Diethylphthalate	UG/L	10 U
Dimethylphthalate	UG/L	10 U
Di-n-butylphthalate	UG/L	10 U
Di-n-octylphthalate	UG/L	10 U
Fluoranthene	UG/L	10 U
Fluorene	UG/L	10 U
Hexachlorobenzene	UG/L	10 U
Hexachlorobutadiene	UG/L	10 U
Hexachlorocyclopentadiene	UG/L	24 U
Hexachloroethane	UG/L	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U
Isophorone	UG/L	10 U
Naphthalene	UG/L	10 U
Nitrobenzene	UG/L	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U
N-Nitrosodiphenylamine	UG/L	10 U
Pentachlorophenol	UG/L	50 U
Phenanthrene	UG/L	10 U
Phenol	UG/L	10 U
Pyrene	UG/L	10 U

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

Printed: 4/13/2004 10:31:02 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-011
Sample ID		SW03-011
Matrix		Surface Water
Depth Interval (ft)		-
Date Sampled		10/09/03
Parameter	**Units**	
Pesticides		
4,4-DDD	UG/L	0.050 U
4,4-DDE	UG/L	0.050 U
4,4-DDT	UG/L	0.050 U
Aldrin	UG/L	0.050 U
alpha-BHC	UG/L	0.050 U
alpha-Chlordane	UG/L	0.50 U
beta-BHC	UG/L	0.050 U
delta-BHC	UG/L	0.050 U
Dieldrin	UG/L	0.050 U
Endosulfan I	UG/L	0.050 U
Endosulfan II	UG/L	0.050 U
Endosulfan Sulfate	UG/L	0.050 U
Endrin	UG/L	0.050 U
Endrin aldehyde	UG/L	0.050 U
Endrin ketone	UG/L	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U
gamma-Chlordane	UG/L	0.50 U
Heptachlor	UG/L	0.050 U
Heptachlor epoxide	UG/L	0.050 U
Methoxychlor	UG/L	0.050 U
Toxaphene	UG/L	1.0 U
Polychlorinated Biphenyls		
Aroclor 1016	UG/L	0.50 UJ

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

Printed: 4/13/2004 10:31:04 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-011
Sample ID		SW03-011
Matrix		Surface Water
Depth Interval (ft)		-
Date Sampled		10/09/03
Parameter	**Units**	
Polychlorinated Biphenyls		
Aroclor 1221	UG/L	0.50 UJ
Aroclor 1232	UG/L	0.50 UJ
Aroclor 1242	UG/L	0.50 UJ
Aroclor 1248	UG/L	0.50 UJ
Aroclor 1254	UG/L	0.50 UJ
Aroclor 1260	UG/L	0.50 UJ
Dioxins & Furans		
2,3,7,8-TCDD	PG/L	3.3 U
Metals		
Arsenic	UG/L	10.0 UJ
Cadmium	UG/L	1.0 U
Calcium	UG/L	34,300
Lead	UG/L	6.0 U
Magnesium	UG/L	9,090
Mercury	UG/L	0.200 U
Potassium	UG/L	1,760
Sodium	UG/L	10,400
Miscellaneous Parameters		
Alkalinity, Bicarbonate (as CaCO3)	MG/L	101
Alkalinity, Total (as CaCO3)	MG/L	101
Chloride	MG/L	19.8
Hardness	MG/L	144
Monomethyl Mercury	NG/L	0.074 B

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

Printed: 4/13/2004 10:31:06 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		**SW03-011**
Sample ID		**SW03-011**
Matrix		**Surface Water**
Depth Interval (ft)		**-**
Date Sampled		**10/09/03**
Parameter	**Units**	
Miscellaneous Parameters		
Sulfate (as SO4)	MG/L	34.1
Total Dissolved Solids	MG/L	174
Total Organic Carbon (TOC)	MG/L	1.8
Total Suspended Solids	MG/L	6.0
Bacterial and Microbial Parameters		
Heterotrophic Plate Count	CFU/ML	570
Total Coliform	C/100 ML	600

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

Printed: 4/13/2004 10:31:08 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/7/03	TB4-10/8/03	TB4-10/9/03
Matrix		Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-
Date Sampled		10/07/03	10/08/03	10/09/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone	UG/L	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

Printed: 4/13/2004 10:43:47 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'TB'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/7/03	TB4-10/8/03	TB4-10/9/03
Matrix		Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-
Date Sampled		10/07/03	10/08/03	10/09/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
Bromoform	UG/L	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	0.23 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

Printed: 4/13/2004 10:43:48 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'TB'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/7/03	TB4-10/8/03	TB4-10/9/03
Matrix		Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-
Date Sampled		10/07/03	10/08/03	10/09/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds				
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 11/20/03_
Checked By_JJL 11/20/03_

Detection Limits shown are PQL

Printed: 4/13/2004 10:43:52 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/03# AND #10/28/03# AND [tblRES].[SACODE] = 'TB'

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ATTACHMENT A
DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT B
DEFINITIONS OF SAMPLE CONCENTRATION UNITS

PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.

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ATTACHMENT C
DOCUMENTATION SUPPORTING QUALIFICATION OF DATA

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1171932.00006

SITE NAME NYPA Groundwater Investigation

SAMPLERS (PRINT/SIGNATURE) Colin Wastenexs, George Kislyk

DELIVERY SERVICE: Lab Courier AIRBILL NO.: NA

LAB STL - Buffalo

COOLER 1,2,3 of ~~3~~ 4

PAGE 1 of 2

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8 TCDD); Metals / Total Hg; TDS, TSS, Cl-, SO4

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L Amber	1L Amber	1L Amber	1L Amber	16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-009	10/7/03	1140	Grab	SW03-009	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
SW03-008	10/7/03	1230	Grab	SW03-008	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
~~Field QC~~	~~10/7/03~~	—		~~Trip B TB3-8~~	~~WQ~~	1	1	-	-	-	-	-	-	-		TB	-	-	-
SW03-007	↓	1545	Grab	SW03-007	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
SW03-006	↓	1500	Grab	SW03-006	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
SW03-010	↓	1800	Grab	SW03-010	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
Field QC	10/7/03	—	—	TB3-10/7/03	WQ	1	1	-	-	-	-	-	-	-		TB3	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	10/7/03	1832		10/7/03	1832
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
	10/8/03	0628		10/8/03	0630

SPECIAL INSTRUCTIONS: Samples Shipped on ice. Questions, Contact Jim Lehman @ 1-800-850-9730. All VOAs in one cooler. SHIPMENT = 4 COOLERS @ 2°C, 2°C, 3°C, 2°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

130/1659

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYM GW Investigation

SAMPLERS (PRINT/SIGNATURE) Colin Wasteneys, George Kislak

DELIVERY SERVICE: Lab Courier AIRBILL NO.: NA

LAB STL - Buffalo

COOLER 1, 2, 3 of 3 + 3

PAGE 2 of 2

TESTS: Alkalinity (Carb/Bicarb), Total Nitrate/Nitrite, Total California Met. Flat Cont +, Methylene Blue

BOTTLE TYPE AND PRESERVATIVE: 8 oz NDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 1 oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz NDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	1 oz Glass	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-009	10/7/03	1140	G	SW03-009	WS	5	1	1	2	1		N1	-	-	-
SW03-008	10/7/03	1230	G	SW03-008	WS	5	1	1	2	1		N1	-	-	-
SW03-007	10/7/03	1645	G	SW03-007	WS	5	1	1	2	1		N1	-	-	-
SW03-006	10/7/03	1500	G	SW03-006	WS	5	1	1	2	1		N1	-	-	-
SW03-010	10/7/03	1500	G	SW03-010	WS	5	1	1	2	1		N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	10/7/03	1832		10/7/03	1832
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
	10/8/03	0628		10/8/03	~~0628~~ KEK 0630

SPECIAL INSTRUCTIONS: Samples chilled on ice. Questions - contact Jim Lehnen 716-856-5636

SHIPMENT = 4 (COOLERS) 2°C, 2°C, 3°C, 2°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

131/1659

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) George Kislok, Craig Taylor

DELIVERY SERVICE: Lab Courier AIRBILL NO.: NA

LAB STL- Buffalo

COOLER 1 of 2

PAGE 1 of 2

TESTS: Alkalinity (carb/bicarb); Total Hardness SS; Total Cyanide; Hot Flash Pt; Mercury Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4 oz HDPE HNO3; 2oz HDPE NaOH; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz HDPE	4 oz HDPE HNO3	2oz HDPE NaOH	12 oz glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
SW03-004	10/8/03	1045	G	SW03-004	WS	5	1	1	2	1						N1	-	-	-
SW03-001	↓	1245	G	SW03-001	WS	5	1	1	2	1						N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	10/8/03	1410			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			STL	10-8-03	14:15

SPECIAL INSTRUCTIONS: Chilled + shipped on ice. Questions, call Jim Lehnen 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-0750/1 OF 1/CofCR/GCM

103/1084

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) George Kistek / Craig Taylor

DELIVERY SERVICE: lab courier AIRBILL NO.:

LAB STL - Buffalo

COOLER 1+2 of 2

PAGE 2 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40ml VOA)	TOC (40ml VOA HCl)	TCL SVOCs (1L Amber)	TCL pesticides (1L Amber)	TCL PCBs Pesticides (1L Amber)	Dioxin (1L Amber)	Metal Total Hg (16oz HDPE HNO3)	TDS/TSS Cl-, SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (HRPIMS)
SW03-004	10/8/03	1045	G	SW03-004	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
SW03-001	↓	1245	G	SW03-001	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
Field QC	10/8/03	—	—	TB4-10/8/03	WQ	2	2	—	—	—	—	—	—	—		TB1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	10/8/03	1410			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			STL	10/08/03	14:15

SPECIAL INSTRUCTIONS
Chilled + Shipped on ice
Questions, call Jim Lehrer
856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

104/1084

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CHAIN OF CUSTODY RECORD

URS CONSULTANTS, INC.

PROJECT NO. 11171932.00016 | SITE NAME NYPA SW Investigation | CLIENT NYPA

SAMPLERS (PRINT) George Kislik, Craig Taylor

LAB SIL - Buffalo

COOLER 1,2,3,4 of 4

PAGE 1 of 2

DELIVERY SERVICE: Fed Express AIRBILL NO.: —

TURNAROUND: ☒ NORMAL ☐ RUSH NUMBER OF DAYS: ____

LOCATION IDENTIFIER	DATE	TIME	COMP	GRAB	SAMPLE ID	MATRIX	TOTAL NUMBER OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOCs (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCBs (1 L Amber)	Dioxins (Carrp-TEQ) (1 L Amber)	metals (16 oz HDPE HNO3)	REMARKS	IRPIMS SAMPLE TYPE	IRPIMS FIELD LOT #	IRPIMS BEGINNING DEPTH (IN FEET)	IRPIMS ENDING DEPTH (IN FEET)
SW03-011	10/9/03	1020		✓	SW03-011	WS		3	2	2	2	1	2	1		N1	—	—	—
↓	↓	↓		✓	↓	WQ		3	2	2	2	1	2	1		MS1	—	—	—
↓	↓	↓		—	↓	↓		3	2	2	2	1	2	1		SD1	—	—	—
SW03-005	↓	1315		✓	SW03-005	WS		3	2	2	2	1	2	1		N1	—	—	—
Field QC	10/9/03	—	—	—	TB4-10/9/03	WQ		2	—	—	—	—	—	—		TB1	—	—	—

MATRIX CODES

AA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTE
LH - HAZARDOUS LIQUID WASTE
SL - SLUDGE
ST - SOLID WASTE
WP - DRINKING WATER
WG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGS
WL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATER
WO - OCEAN WATER
WS - SURFACE WATER
WW - WASTE WATER
LF - FLOATING/FREE PRODUCT ON GW TABLE

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	10/9/03	MJ			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB. BY (SIGNATURE)**	**DATE**	**TIME**
				10/9/03	14:13

SPECIAL INSTRUCTIONS
Chilled + Shipped on ice
Problems, call Jim Lehnen
716-856-5630

H @ 8.0°, SAME DAY w/ICE

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075/1 OF 1/CofCR

133/1445

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) George Kiskie / Craig Taylor

LAB STL - Buffalo

COOLER 1,2,3,4 of 4

PAGE 2 of 2

DELIVERY SERVICE: Left Courier AIRBILL NO.: —

TESTS: TDS/TSS, Cl, SO4; Alkalinity (total + bicarb); Total Hardness; Total Coliform; Het. Plate Ct; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	16 oz HDPE	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE freeze	12 oz glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (HRPIMS)
SW03-011	10/9/03	1020	Grab	SW03-011	WS	6	1	1	1	2	1	—	—	—		N1	—	—	—
↓	↓	↓	↓	↓	WP	6	1	1	1	2	1	—	—	—		MS1	—	—	—
↓	↓	↓	↓	↓	↓	6	1	1	1	2	1	—	—	—		SD1	—	—	—
SW03-005	↓	1315	Grab	SW03-005	WS	6	1	1	1	2	1	—	—	—		N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	10/9/03	1413			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			Koszek	10/9/03	1413

SPECIAL INSTRUCTIONS: Chilled + Shipped on ice. Problems, Call Jim Lehner 716-856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

H@ 8.0°, SOMEDAY W/ICE

134/1445

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SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

Jim Lehnen
URS Consultants
640 Ellicott Street
3rd Floor
Buffalo, NY 14203

Dear Mr. Lehnen,

STL Buffalo recently performed a suite of analyses on samples submitted by URS Consultants in relation to the Surfacewater samples received during the September and October 2003 sampling event for the New York Power Authority project. The 8270 analyte list that was reported did not originally include Carbazole, a compound that is part of the ASP 2000 Target Compound List. The 8270 Quantitation reports for these samples were examined and all of the surfacewater samples were found to be non-detect for this analyte.

STL Buffalo apologizes for any inconveniences that this omission may have caused. Please do not hestitate to contact me with any questions that you may have.

Sincerely,

STL BUFFALO

Amy Haag

Amy Haag

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SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

January 12, 2004

Jim Lehnen
URS Consultants
640 Ellicott Street
3rd Floor
Buffalo, NY 14203

Dear Mr. Lehnen,

STL Buffalo recently performed a suite of analyses on samples submitted by URS Consultants in relation to the Groundwater samples received during the September and October 2003 sampling event for the New York Power Authority project. The following SDGs were reviewed for the presence of the additional Pesticide analytes Endrin Ketone, gamma-Chlordane and alpha-Chlordane:

SDG			
092403	092503	092603	092903
093003	100103	100203	100303
100603	100703	100803	100903
101003	101303	101403	101503
112403			

All field samples were reviewed and found to be free of the above-mentioned Pesticides. All SDGs received after SDG 112403 have been or will be reported to include the additional analytes.

Please do not hestitate to contact me with any questions that you may have.

Sincerely,

STL BUFFALO

Amy Haag

Amy Haag

Project Manager

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INITIAL CALIBRATION DATA

Lab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001278-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Intrument ID: I50M Calibration Dates(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Calibration Times: 11:17 15:12

GC Column: DB-624 ID: 0.53 (mm)

Lab File ID: RRF1 = M4705.RR RRF4 = M4704.RR
RRF10 = M4701.RR RRF20 = M4700.RR RRF40 = M4699.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Chloromethane	0.565	0.534	0.418	0.443	0.463	0.4840	12.900
Bromomethane	0.252	0.251	0.230	0.233	0.239	0.2410	4.100
Vinyl chloride	0.438	0.400	0.381	0.402	0.407	0.4060	5.000
Chloroethane	0.315	0.316	0.263	0.278	0.308	0.2960	8.200
Methylene chloride	0.507	0.366	0.340	0.325	0.332	0.3740	20.300
Acetone	0.042	0.035	0.032	0.031	0.030	0.0340	14.000
Carbon Disulfide	1.050	1.007	1.009	1.052	1.144	1.0520	5.300
1,1-Dichloroethene	0.316	0.258	0.270	0.276	0.286	0.2810	7.800
1,1-Dichloroethane	0.904	0.745	0.721	0.738	0.724	0.7660	10.100
cis-1,2-Dichloroethene	0.389	0.329	0.372	0.400	0.383	0.3740	7.400
trans-1,2-Dichloroethene	0.441	0.351	0.395	0.406	0.376	0.3940	8.600
Chloroform	0.820	0.635	0.639	0.668	0.595	0.6710	12.900
1,2-Dichloroethane	0.393	0.324	0.336	0.359	0.319	0.3460	8.800
2-Butanone	0.047	0.052	0.051	0.055	0.053	0.0510	6.100
1,1,1-Trichloroethane	0.558	0.443	0.489	0.517	0.476	0.4970	8.800
Carbon Tetrachloride	0.425	0.352	0.419	0.444	0.398	0.4070	8.600
Vinyl acetate	0.290	0.323	0.331	0.359	0.346	0.3300	7.900
Bromodichloromethane	0.418	0.359	0.385	0.395	0.368	0.3850	6.000
1,2-Dichloropropane	0.389	0.334	0.358	0.378	0.363	0.3640	5.800
cis-1,3-Dichloropropene	0.367	0.344	0.415	0.437	0.433	0.3990	10.400
Trichloroethene	0.383	0.313	0.345	0.363	0.353	0.3510	7.400
Dibromochloromethane	0.194	0.180	0.212	0.229	0.214	0.2060	9.200
1,1,2-Trichloroethane	0.157	0.156	0.171	0.184	0.172	0.1680	6.900
Benzene	1.630	1.354	1.443	1.548	1.535	1.5020	7.000
trans-1,3-Dichloropropene	0.340	0.311	0.368	0.419	0.390	0.3650	11.500
Bromoform	0.182	0.177	0.211	0.216	0.222	0.2020	10.200
4-Methyl-2-pentanone	0.119	0.135	0.148	0.160	0.153	0.1430	11.400
2-Hexanone	0.075	0.084	0.091	0.103	0.098	0.0900	12.300
Tetrachloroethene	0.433	0.377	0.400	0.452	0.431	0.4190	7.100
1,1,2,2-Tetrachloroethane	0.418	0.375	0.405	0.397	0.393	0.3970	4.000
Toluene	1.086	1.017	1.121	1.200	1.177	1.1200	6.500
Chlorobenzene	1.207	0.966	0.968	1.037	0.998	1.0350	9.700
Ethylbenzene	1.945	1.756	1.931	1.996	1.889	1.9030	4.800
Styrene	0.943	0.890	1.008	1.056	1.022	0.9840	6.800
Total Xylenes	0.582	0.603	0.647	0.680	0.665	0.6350	6.600
1,1,2-Trichloro-1,2,2-trifl	0.250	0.256	0.263	0.273	0.292	0.2670	6.200
1,2,4-Trichlorobenzene	0.800	0.591	0.632	0.620	0.608	0.6500	13.100

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INITIAL CALIBRATION DATA

Lab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001278-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Intrument ID: I50M Calibration Dates(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Calibration Times: 11:17 15:12

GC Column: DB-624 ID: 0.53 (mm)

Lab File ID: RRF1 = M4705.RR RRF4 = M4704.RR
RRF10 = M4701.RR RRF20 = M4700.RR RRF40 = M4699.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
1,2-Dibromo-3-chloropropane	0.024	0.032	0.048	0.048	0.046	0.0400	27.800
1,2-Dibromoethane	0.143	0.140	0.158	0.166	0.160	0.1530	7.400
1,2-Dichlorobenzene	1.325	1.122	1.109	1.057	1.077	1.1380	9.400
1,3-Dichlorobenzene	1.814	1.424	1.519	1.402	1.445	1.5210	11.200
1,4-Dichlorobenzene	1.969	1.504	1.513	1.359	1.406	1.5500	15.700
Cyclohexane	0.436	0.520	0.665	0.750	0.725	0.6190	22.000
Dichlorodifluoromethane	0.233	0.248	0.267	0.293	0.276	0.2630	9.000
Methyl acetate	0.154	0.130	0.120	0.127	0.125	0.1310	10.200
Trichlorofluoromethane	0.400	0.413	0.422	0.414	0.425	0.4150	2.400
Methyl tert butyl ether	0.395	0.384	0.390	0.414	0.374	0.3910	3.800
Isopropylbenzene	3.805	3.405	4.147	3.989	4.093	3.8880	7.700
Methylcyclohexane	0.343	0.419	0.537	0.597	0.598	0.4990	22.800
Toluene-D8	1.234	1.219	1.534	1.439	1.333	1.3520	10.000
p-Bromofluorobenzene	0.324	0.332	0.323	0.346	0.317	0.3280	3.300
1,2-Dichloroethane-D4	0.287	0.259	0.274	0.263	0.225	0.2610	8.800

Comments:

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CONTINUING CALIBRATION CHECK

SW03-001

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006033-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Lab File Id: M5027.RR Calibration Date: 10/10/2003 Time: 10:47

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0357	0.0100	-5.000	100.00
Benzene	1.5020	1.5834	0.0100	-5.400	100.00
Bromodichloromethane	0.3850	0.3463	0.0100	10.000	100.00
Bromoform	0.2020	0.1699	0.1000	15.900	100.00
Bromomethane	0.2410	0.1630	0.0100	32.400	100.00
2-Butanone	0.0510	0.0549	0.0100	-7.600	100.00
Methyl acetate	0.1310	0.1234	0.0100	5.800	100.00
Cyclohexane	0.6190	0.7493	0.0100	-21.000	100.00
Methylcyclohexane	0.4990	0.6224	0.0100	-24.700	100.00
Carbon Disulfide	1.0520	1.1971	0.0100	-13.800	100.00
Carbon Tetrachloride	0.4070	0.4144	0.0100	-1.800	100.00
Chlorobenzene	1.0350	1.0791	0.3000	-4.300	100.00
Chloroethane	0.2960	0.3030	0.0100	-2.400	100.00
Chloroform	0.6710	0.6577	0.0100	2.000	20.00
Chloromethane	0.4840	0.4240	0.1000	12.400	100.00
Dibromochloromethane	0.2060	0.1948	0.0100	5.400	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0357	0.0100	10.800	100.00
1,2-Dibromoethane	0.1530	0.1548	0.0100	-1.200	100.00
1,2-Dichlorobenzene	1.1380	1.0692	0.0100	6.000	100.00
1,3-Dichlorobenzene	1.5210	1.4445	0.0100	5.000	100.00
1,4-Dichlorobenzene	1.5500	1.4603	0.0100	5.800	100.00
Dichlorodifluoromethane	0.2630	0.2695	0.0100	-2.500	100.00
1,1-Dichloroethane	0.7660	0.7668	0.1000	-0.100	100.00
1,2-Dichloroethane	0.3460	0.3294	0.0100	4.800	100.00
1,1-Dichloroethene	0.2810	0.3361	0.0100	-19.600	100.00
cis-1,2-Dichloroethene	0.3740	0.4010	0.0100	-7.200	100.00
trans-1,2-Dichloroethene	0.3940	0.4367	0.0100	-10.800	100.00
1,2-Dichloropropane	0.3640	0.3493	0.0100	4.000	20.00
cis-1,3-Dichloropropene	0.3990	0.3730	0.0100	6.500	100.00
trans-1,3-Dichloropropene	0.3650	0.3258	0.0100	10.700	100.00
Ethylbenzene	1.9030	2.0533	0.0100	-7.900	20.00
2-Hexanone	0.0900	0.0935	0.0100	-3.900	100.00
Isopropylbenzene	3.8880	3.8902	0.0100	-0.100	100.00
Methylene chloride	0.3740	0.4124	0.0100	-10.300	100.00
4-Methyl-2-pentanone	0.1430	0.1450	0.0100	-1.400	100.00
Styrene	0.9840	1.0555	0.0100	-7.300	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3949	0.3000	0.500	100.00
Tetrachloroethene	0.4190	0.4498	0.0100	-7.400	100.00
Toluene	1.1200	1.2073	0.0100	-7.800	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006033-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Lab File Id: M5027.RR Calibration Date: 10/10/2003 Time: 10:47

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.5527	0.0100	15.000	100.00
1,1,1-Trichloroethane	0.4970	0.5114	0.0100	-2.900	100.00
1,1,2-Trichloroethane	0.1680	0.1716	0.0100	-2.100	100.00
Trichloroethene	0.3510	0.3552	0.0100	-1.200	100.00
Trichlorofluoromethane	0.4150	0.4347	0.0100	-4.700	100.00
Vinyl chloride	0.4060	0.4147	0.0100	-2.100	20.00
Total Xylenes	0.6350	0.6918	0.0100	-8.900	100.00
Methyl tert butyl ether	0.3910	0.3908	0.0100	0.100	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3632	0.0100	-36.000	100.00
Vinyl acetate	0.3300	0.3817	0.0100	-15.700	100.00
1,2-Dichloroethane-D4	0.2610	0.2775	0.0100	-6.300	100.00
Toluene-D8	1.3520	1.5285	0.0100	-13.000	100.00
p-Bromofluorobenzene	0.3280	0.3408	0.0100	-3.900	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006042-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Lab File Id: M5051.RR Calibration Date: 10/10/2003 Time: 23:18

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.5162	0.0100	20.600	100.00
1,1,1-Trichloroethane	0.4970	0.4572	0.0100	8.000	100.00
1,1,2-Trichloroethane	0.1680	0.1546	0.0100	8.000	100.00
Trichloroethene	0.3510	0.3275	0.0100	6.700	100.00
Trichlorofluoromethane	0.4150	0.4192	0.0100	-1.000	100.00
Vinyl chloride	0.4060	0.3936	0.0100	3.000	20.00
Total Xylenes	0.6350	0.6044	0.0100	4.800	100.00
Methyl tert butyl ether	0.3910	0.3628	0.0100	7.200	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3377	0.0100	-26.500	100.00
Vinyl acetate	0.3300	0.3628	0.0100	-9.900	100.00
1,2-Dichloroethane-D4	0.2610	0.2653	0.0100	-1.600	100.00
Toluene-D8	1.3520	1.4823	0.0100	-9.600	100.00
p-Bromofluorobenzene	0.3280	0.3156	0.0100	3.800	100.00

FORM VII VOA

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CONTINUING CALIBRATION CHECK

SW03-004

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006042-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Lab File Id: M5051.RR Calibration Date: 10/10/2003 Time: 23:18

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0303	0.0100	10.900	100.00
Benzene	1.5020	1.4353	0.0100	4.400	100.00
Bromodichloromethane	0.3850	0.3219	0.0100	16.400	100.00
Bromoform	0.2020	0.1688	0.1000	16.400	100.00
Bromomethane	0.2410	0.1561	0.0100	35.200	100.00
2-Butanone	0.0510	0.0547	0.0100	-7.200	100.00
Methyl acetate	0.1310	0.1283	0.0100	2.100	100.00
Cyclohexane	0.6190	0.7022	0.0100	-13.400	100.00
Methylcyclohexane	0.4990	0.5715	0.0100	-14.500	100.00
Carbon Disulfide	1.0520	1.1764	0.0100	-11.800	100.00
Carbon Tetrachloride	0.4070	0.3817	0.0100	6.200	100.00
Chlorobenzene	1.0350	0.9665	0.3000	6.600	100.00
Chloroethane	0.2960	0.2919	0.0100	1.400	100.00
Chloroform	0.6710	0.6005	0.0100	10.500	20.00
Chloromethane	0.4840	0.3904	0.1000	19.300	100.00
Dibromochloromethane	0.2060	0.1804	0.0100	12.400	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0320	0.0100	20.000	100.00
1,2-Dibromoethane	0.1530	0.1386	0.0100	9.400	100.00
1,2-Dichlorobenzene	1.1380	0.9763	0.0100	14.200	100.00
1,3-Dichlorobenzene	1.5210	1.3641	0.0100	10.300	100.00
1,4-Dichlorobenzene	1.5500	1.3536	0.0100	12.700	100.00
Dichlorodifluoromethane	0.2630	0.2667	0.0100	-1.400	100.00
1,1-Dichloroethane	0.7660	0.7248	0.1000	5.400	100.00
1,2-Dichloroethane	0.3460	0.2990	0.0100	13.600	100.00
1,1-Dichloroethene	0.2810	0.3054	0.0100	-8.700	100.00
cis-1,2-Dichloroethene	0.3740	0.3535	0.0100	5.500	100.00
trans-1,2-Dichloroethene	0.3940	0.3888	0.0100	1.300	100.00
1,2-Dichloropropane	0.3640	0.3212	0.0100	11.800	20.00
cis-1,3-Dichloropropene	0.3990	0.3473	0.0100	13.000	100.00
trans-1,3-Dichloropropene	0.3650	0.3087	0.0100	15.400	100.00
Ethylbenzene	1.9030	1.8561	0.0100	2.500	20.00
2-Hexanone	0.0900	0.0894	0.0100	0.700	100.00
Isopropylbenzene	3.8880	3.5494	0.0100	8.700	100.00
Methylene chloride	0.3740	0.3581	0.0100	4.200	100.00
4-Methyl-2-pentanone	0.1430	0.1367	0.0100	4.400	100.00
Styrene	0.9840	0.9483	0.0100	3.600	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3850	0.3000	3.000	100.00
Tetrachloroethene	0.4190	0.4111	0.0100	1.900	100.00
Toluene	1.1200	1.0925	0.0100	2.400	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006119-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100903

Lab File Id: M5073.RR Calibration Date: 10/11/2003 Time: 10:42

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4942	0.0100	24.000	100.00
1,1,1-Trichloroethane	0.4970	0.4489	0.0100	9.700	100.00
1,1,2-Trichloroethane	0.1680	0.1531	0.0100	8.900	100.00
Trichloroethene	0.3510	0.3216	0.0100	8.400	100.00
Trichlorofluoromethane	0.4150	0.4291	0.0100	-3.400	100.00
Vinyl chloride	0.4060	0.4631	0.0100	-14.100	20.00
Total Xylenes	0.6350	0.5970	0.0100	6.000	100.00
Methyl tert butyl ether	0.3910	0.3736	0.0100	4.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3405	0.0100	-27.500	100.00
Vinyl acetate	0.3300	0.3570	0.0100	-8.200	100.00
1,2-Dichloroethane-D4	0.2610	0.2860	0.0100	-9.600	100.00
Toluene-D8	1.3520	1.4556	0.0100	-7.700	100.00
p-Bromofluorobenzene	0.3280	0.3350	0.0100	-2.100	100.00

FORM VII VOA

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CONTINUING CALIBRATION CHECK

ıab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006046-2

ıab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100903

ıab File Id: Z58933.RR Calibration Date: 10/13/2003 Time: 08:57

ntrument ID: I50Z-A Init. Calib. Date(s): 09/16/2003 09/16/2003

Init. Calib. Times: 08:02 11:00

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1660	0.1154	0.0500	30.500	100.00
Caprolactam	0.1030	0.1086	0.0500	-5.400	40.00
Acetophenone	1.4480	1.5982	0.0500	-10.400	100.00
Biphenyl	1.2890	1.3323	0.0500	-3.400	100.00
Benzaldehyde	0.5670	0.6795	0.0500	-19.800	100.00

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METHOD 8081 - TCL PESTICIDES
WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 100903

GC Column(1): RTXCLPI ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	Matrix Spike Blank	58		45								0
2	Matrix Spike Blank	86		69								0
3	Method Blank	48		34	*							1
4	Method Blank	86		70								0
5	SW03-005	2	*	11	*							2
6	SW03-005RE	90		76								0
7	SW03-011	31		41								0
8	SW03-011MS	22	*	32	*							2
9	SW03-011MSDRE	98		83								0
10	SW03-011MSRE	95		85								0
11	SW03-011RE	96		86								0
12	SW03-011SD	24	*	30	*							2

QC LIMITS

(DCBP) = Decachlorobiphenyl (28-132)
(TCMX) = Tetrachloro-m-xylene (36-132)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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Sample Name :
Sample Number: A3970501
Operator :

Time : 10/20/03 15:00
Study : AW30013623

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

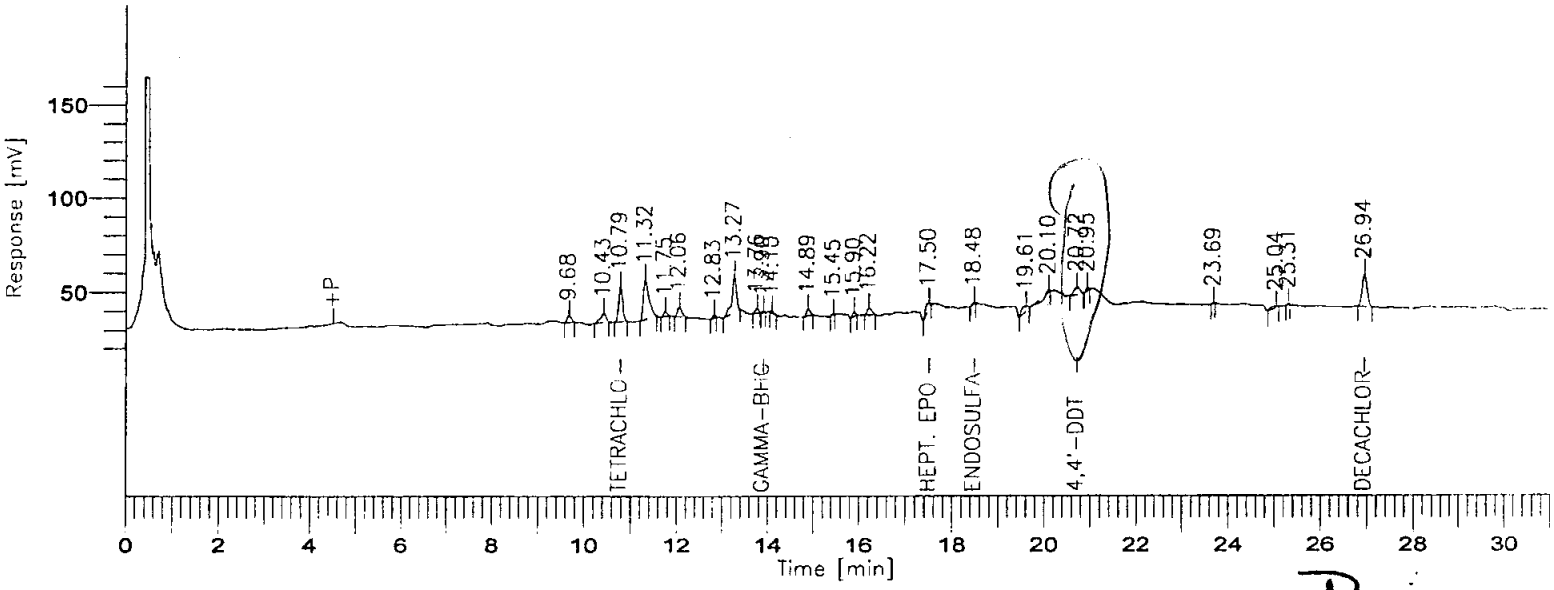
Channel : B A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/17/03 09:47
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RB29231.RAW
Result File : H:\TURBO4\5890-18\RB29231.rst
Inst Method : RDPPINS from H:\TURBO4\5890-18\RB29231.rst
Proc Method : H:\TURBO4\5890-18\RBPPPRC from H:\TURBO4\5890-18\RB29231.rst
Calib Method : H:\TURBO4\5890-18\RBPPO42 from H:\TURBO4\5890-18\RB29231.rst
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



OCT 20 2003 MCD

Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [pV]
1	9.68	22376		B	0.0224	3515.42
2	10.43	38585		B	0.0386	4780.19
3	10.79	109147	Tetrachloro-m-xylene	B	0.0098	18665.26
4	11.32	178605		B	0.1786	20848.20
5	11.75	13446		B	0.0134	2374.07
6	12.06	34126		B	0.0341	5114.76
7	12.83	6178		B	0.0062	1540.06
8	13.27	133936		B	0.1339	19330.28
9	13.76	13095		B	0.0131	2413.00
10	13.90	3167	~~gamma-BHC~~	B	0.0008	877.30
11	14.10	6185		B	0.0062	1375.50
12	14.89	19734		B	0.0197	3507.84
13	15.45	1669		B	0.0017	396.92
14	15.90	10031		B	0.0100	2063.63
15	16.22	25332		B	0.0253	3875.55
16	17.50	25316	~~Hept. epoxide~~	B	0.0013	2400.47
17	18.48	3349	Endosulfan I	B	-0.0005	691.41
18	19.61	30757		B	0.0308	2575.07
19	20.10	16439		V	~~0.0164~~	641.30
20	20.72	34203	4,4'-DDT	B	0.0066	3831.64
21	20.95	5533		B	~~0.0055~~	1254.20
22	23.69	1502		B	0.0015	408.57
23	25.04	10434		B	0.0104	552.18
24	25.31	1501		B	0.0015	374.53
25	26.94	122549	Decachlorobiphenyl	B	0.0098	16710.77

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Sample Name :
Sample Number: A3970501
Operator :

Time : 10/20/03 15:00
Study : AW30013623

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

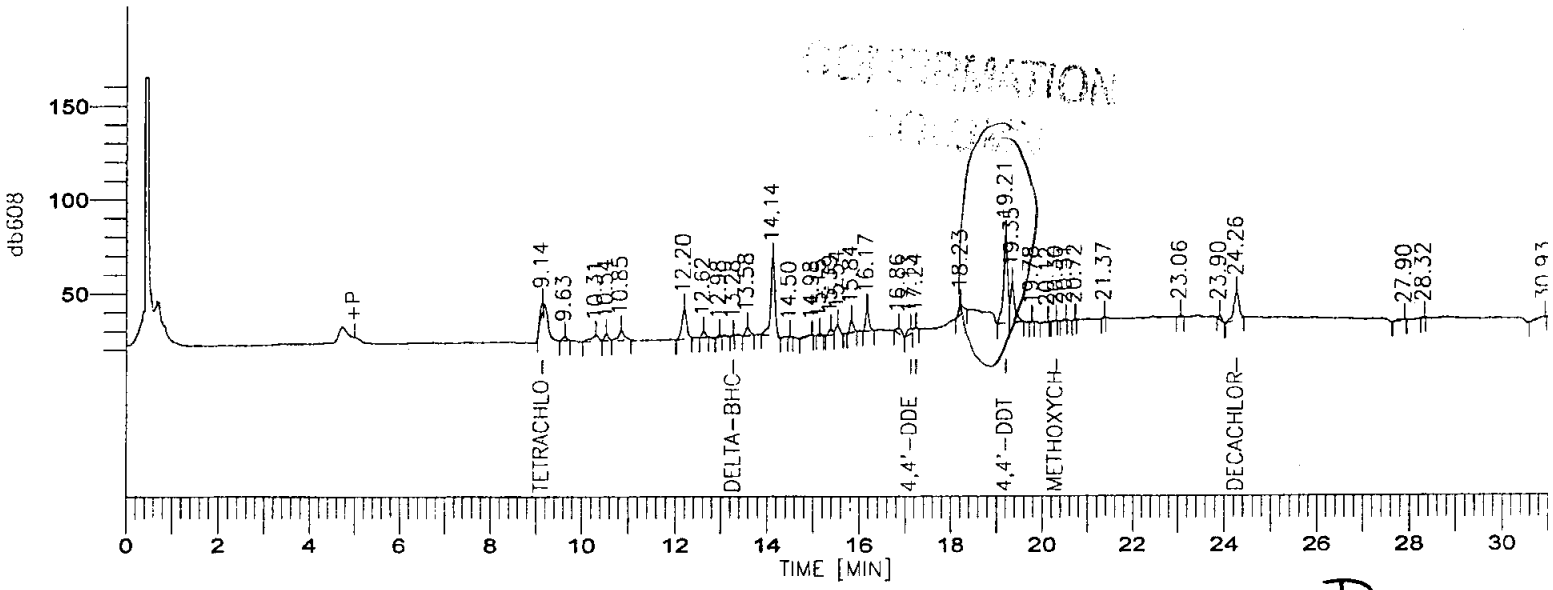
Channel : A A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/17/03 09:47
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RA29231.RAW
Result File : H:\TURBO4\5890-18\RA29231.rst
Inst Method : RDPPINS from H:\TURBO4\5890-18\RA29231.rst
Proc Method : H:\TURBO4\5890-18\RAPPPRC from H:\TURBO4\5890-18\RA29231.rst
Calib Method : H:\TURBO4\5890-18\RAPPO42 from H:\TURBO4\5890-18\RA29231.rst
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	9.14	25197	Tetrachloro-m-xylene	B	0.0024	2796.09
2	9.63	14076		B	0.0141	2127.67
3	10.31	36567		B	0.0366	3078.58
4	10.54	21892		V	0.0219	3593.23
5	10.85	47354		V	0.0474	5189.92
6	12.20	117512		B	0.1175	15969.37
7	12.62	18215		B	0.0182	3030.14
8	12.98	4392		B	0.0044	993.02
9	13.28	1413	~~delta-~~BHC	B	0.0026	308.65
10	13.58	27374		B	0.0274	4164.08
11	14.14	267803		B	0.2678	41691.59
12	14.50	1679		B	0.0017	488.60
13	14.98	7968		B	0.0080	223.55
14	15.15	5184		B	0.0052	1136.58
15	15.39	19310		B	0.0193	3085.26
16	15.54	31163		V	0.0312	5121.45
17	15.84	36369		B	0.0364	6681.63
18	16.17	62340		B	0.0623	11824.08
19	16.86	23355		B	0.0234	2758.97
20	17.12	20721	~~4,4'-DDE~~	B	0.0050	2440.18
21	17.24	11094	~~Endosulfan I~~	V	0.0008	1610.54
22	18.23	36802		B	0.0368	5147.42
23	19.21	294613	4,4'-DDT	B	0.0410	46724.95
24	19.35	140091		V	0.1401	21333.22
25	19.78	1971		B	0.0020	525.34

MED

OCT 20 2003

146% RPD , 521% D

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WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 100903

GC Column(1): ZB-5 ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	Matrix Spike Blank	55		76								0
2	Matrix Spike Blank	70		95								0
3	Method Blank	34		46								0
4	Method Blank	70		83								0
5	SW03-005	10	*	18	*							2
6	SW03-005RE	62		92								0
7	SW03-011	25	*	34	*							2
8	SW03-011MS	32		44								0
9	SW03-011MSDRE	76		99								0
10	SW03-011MSRE	76		98								0
11	SW03-011RE	58		84								0
12	SW03-011SD	36		50								0

QC LIMITS

(DCBP) = Decachlorobiphenyl (28-132)
(TCMX) = Tetrachloro-m-xylene (36-132)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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Time: 13:38:46

Organic Prep Log Book
(3510C) 8082 PCB WATERS
A3B11591 (Closed)

Rept: AN050

Surrogate Amount: 1000.00 ul

Date Ext/Initials: 10/11/2003 MR

Extraction Type: SEPF or CLLE (circle one)

AQUEOUS EXTRACTIONS

Matrix Spike Amount: 1000.00 ul

Date Cleanup/Initials: 10/11/2003 CM

Date Conc/Initials: 10/11/2003 CM

Job Number	Sample ID	Bottle ID	Sample Type	Vial #	Test	Protoc	Method	Surr Code	Spike Code	Appear.	Initial pH	Sample Volume (ml)	Final Volume (ml)
A03-9767	A3976704	A	FS	AW30013683	PCBS	SW8463	8082	A00035			6.00	1035.0000	10.00
A03-9767	A3976705	A	FS	AW30013684	PCBS	SW8463	8082	A00035			6.00	1045.0000	10.00
A03-9771	A3977101	A	FS	AW30013685	PCBS	SW8463	8082	A00035			6.00	1000.0000	10.00
A03-9771	A3977101MS	A	MS	AW30013686	PCBS	SW8463	8082	A00035	A00222		6.00	1050.0000	10.00
A03-9771	A3977101SD	A	SD	AW30013687	PCBS	SW8463	8082	A00035	A00222		6.00	1050.0000	10.00
A03-9771	A3977102	A	FS	AW30013688	PCBS	SW8463	8082	A00035			6.00	1060.0000	10.00
A3B11591	A3B1159101	Z	MSB	AW30013672	PCBS	SW8463	8082	A00035	A00222		5.00	1000.0000	10.00
A3B11591	A3B1159102	Z	MBLK	AW30013673	PCBS	SW8463	8082	A00035			5.00	1000.0000	10.00
A03-9716	A3971601	A	FS	AW30013689	PCBS	SW8463	8082	A00035			6.00	1055.0000	10.00
A03-9716	A3971602	A	FS	AW30013690	PCBS	SW8463	8082	A00035			6.00	1055.0000	10.00

Comments: A35 PUMP WAS CLOGGING DURING SURROGATING. MR 10/11/03

749/1445

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100803

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	14.80	74.0	18.40	92.0
Cadmium				10.0	10.37	103.7	10.14	101.4
Calcium				5000.0	5024.98	100.5	4960.96	99.2
Lead				6.0	5.07	84.5	5.36	89.3
Magnesium				5000.0	5008.87	100.2	4976.81	99.5
Potassium				5000.0	5169.31	103.4	5040.16	100.8
Sodium				5000.0	4770.00	95.4	4741.33	94.8

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100803

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/11/03 End Date: 10/12/03

Sample ID.	D/F	Time	% R	Analytes																						
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	19:35				X			X	X					X	X				X			X				
STD 1	1.00	19:40				X			X	X					X	X				X			X				
STD 2	1.00	19:45				X			X	X					X	X				X			X				
STD 3	1.00	19:49				X			X	X					X	X				X			X				
STD 3 VER	1.00	19:54				X			X	X					X	X				X			X				
ICV	1.00	19:59				X			X	X					X	X				X			X				
ICB	1.00	20:03				X			X	X					X	X				X			X				
CRI	1.00	20:08				X			X	X					X	X				X			X				
ICSA	1.00	20:13				X			X	X					X	X				X			X				
ICSAB	1.00	20:17				X			X	X					X	X				X			X				
CCV	1.00	20:22				X			X	X					X	X				X			X				
CCB	1.00	20:27				X			X	X					X	X				X			X				
ZZZZZZ	1.00	20:31																									
ZZZZZZ	1.00	20:36																									
ZZZZZZ	1.00	20:41																									
ZZZZZZ	1.00	20:45																									
ZZZZZZ	1.00	20:50																									
ZZZZZZ	1.00	20:55																									
ZZZZZZ	1.00	20:59																									
ZZZZZZ	1.00	21:04																									
ZZZZZZ	1.00	21:09																									
ZZZZZZ	1.00	21:13																									
CCV	1.00	21:19				X			X	X					X	X				X			X				
CCB	1.00	21:24				X			X	X					X	X				X			X				
ZZZZZZ	1.00	21:29																									
ZZZZZZ	5.00	21:33																									
ZZZZZZ	1.00	21:38																									
ZZZZZZ	1.00	21:43																									
ZZZZZZ	1.00	21:47																									
ZZZZZZ	1.00	21:52																									
ZZZZZZ	1.00	21:57																									
ZZZZZZ	1.00	22:01																									
ZZZZZZ	1.00	22:06																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100803

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/11/03 End Date: 10/12/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	22:11																									
CCV	1.00	22:16				X			X	X					X	X				X			X				
CCB	1.00	22:21				X			X	X					X	X				X			X				
ZZZZZZ	1.00	22:26																									
ZZZZZZ	1.00	22:31																									
ZZZZZZ	1.00	22:35																									
ZZZZZZ	1.00	22:40																									
ZZZZZZ	1.00	22:45																									
Method Blank	1.00	22:49				X			X	X					X	X				X			X				
LFB	1.00	22:54				X			X	X					X	X				X			X				
ZZZZZZ	1.00	22:59																									
ZZZZZZ	5.00	23:03																									
ZZZZZZ	1.00	23:08																									
CCV	1.00	23:14				X			X	X					X	X				X			X				
CCB	1.00	23:18				X			X	X					X	X				X			X				
ZZZZZZ	1.00	23:23																									
ZZZZZZ	1.00	23:28																									
ZZZZZZ	1.00	23:33																									
ZZZZZZ	1.00	23:37																									
ZZZZZZ	1.00	23:42																									
ZZZZZZ	1.00	23:47																									
ZZZZZZ	1.00	23:51																									
ZZZZZZ	1.00	23:56																									
ZZZZZZ	1.00	00:01																									
ZZZZZZ	1.00	00:05																									
CCV	1.00	00:11				X			X	X					X	X				X			X				
CCB	1.00	00:16				X			X	X					X	X				X			X				
ZZZZZZ	1.00	00:21																									
ZZZZZZ	1.00	00:25																									
ZZZZZZ	1.00	00:30																									
ZZZZZZ	1.00	00:35																									
ZZZZZZ	1.00	00:39																									
SW03-004	1.00	00:44				X			X	X					X	X				X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/11/03 End Date: 10/12/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SW03-004L	5.00	00:49				X			X	X					X	X				X			X				
SW03-004A	1.00	00:53				X			X	X					X	X				X			X				
SW03-001	1.00	00:58				X			X	X					X	X				X			X				
ZZZZZZ	1.00	01:03																									
CCV	1.00	01:09				X			X	X					X	X				X			X				
CCB	1.00	01:13				X			X	X					X	X				X			X				
ZZZZZZ	1.00	01:18																									
ZZZZZZ	1.00	01:23																									
ZZZZZZ	1.00	01:27																									
ZZZZZZ	1.00	01:32																									
ZZZZZZ	1.00	01:37																									
ZZZZZZ	5.00	01:42																									
ZZZZZZ	1.00	01:46																									
ZZZZZZ	1.00	01:51																									
ZZZZZZ	1.00	01:56																									
CCV	1.00	02:01				X			X	X					X	X				X			X				
CCB	1.00	02:06				X			X	X					X	X				X			X				
CRI	1.00	02:11				X			X	X					X	X				X			X				
ICSA	1.00	02:15				X			X	X					X	X				X			X				
ICSAB	1.00	02:20				X			X	X					X	X				X			X				
CCV	1.00	02:25				X			X	X					X	X				X			X				
CCB	1.00	02:30				X			X	X					X	X				X			X				

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URS Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100903

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	14.97	74.8	14.22	71.1
Cadmium				10.0	10.34	103.4	10.36	103.6
Calcium				5000.0	5041.83	100.8	4979.28	99.6
Lead				6.0	6.85	114.2	7.98	133.0
Magnesium				5000.0	5052.99	101.1	5132.34	102.6
Potassium				5000.0	5359.20	107.2	5327.83	106.6
Sodium				5000.0	4788.89	95.8	5034.74	100.7

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/03 End Date: 10/16/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	13:01				X			X	X					X	X				X			X				
STD 1	1.00	13:06				X			X	X					X	X				X			X				
STD 2	1.00	13:10				X			X	X					X	X				X			X				
STD 3	1.00	13:15				X			X	X					X	X				X			X				
STD 3 VER	1.00	13:20				X			X	X					X	X				X			X				
ICV	1.00	13:25				X			X	X					X	X				X			X				
ICB	1.00	13:30				X			X	X					X	X				X			X				
CRI	1.00	13:35				X			X	X					X	X				X			X				
ICSA	1.00	13:39				X			X	X					X	X				X			X				
ICSAB	1.00	13:44				X			X	X					X	X				X			X				
CCV	1.00	13:50				X			X	X					X	X				X			X				
CCB	1.00	13:55				X			X	X					X	X				X			X				
ZZZZZZ	1.00	14:00																									
ZZZZZZ	1.00	14:05																									
ZZZZZZ	1.00	14:10																									
ZZZZZZ	1.00	14:15																									
ZZZZZZ	1.00	14:20																									
ZZZZZZ	1.00	14:24																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:34																									
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:44																									
CCV	1.00	14:50				X			X	X					X	X				X			X				
CCB	1.00	14:55				X			X	X					X	X				X			X				
ZZZZZZ	1.00	15:00																									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:09																									
ZZZZZZ	1.00	15:14																									
ZZZZZZ	5.00	15:19																									
ZZZZZZ	1.00	15:24																									
ZZZZZZ	1.00	15:29																									
ZZZZZZ	1.00	15:33																									
ZZZZZZ	1.00	15:38																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100903

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/03 End Date: 10/16/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	15:43																									
CCV	1.00	15:49				X			X	X					X	X				X			X				
CCB	1.00	15:54				X			X	X					X	X				X			X				
ZZZZZZ	1.00	15:59																									
ZZZZZZ	1.00	16:04																									
Method Blank	1.00	16:09				X			X	X					X	X				X			X				
LFB	1.00	16:13				X			X	X					X	X				X			X				
SW03-011	1.00	16:18				X			X	X					X	X				X			X				
SW03-011L	5.00	16:23				X			X	X					X	X				X			X				
SW03-011A	1.00	16:28				X			X	X					X	X				X			X				
SW03-011	1.00	16:33				X			X	X					X	X				X			X				
SW03-011	1.00	16:38				X			X	X					X	X				X			X				
SW03-005	1.00	16:42				X			X	X					X	X				X			X				
CCV	1.00	16:49				X			X	X					X	X				X			X				
CCB	1.00	16:53				X			X	X					X	X				X			X				
ZZZZZZ	1.00	17:08																									
ZZZZZZ	5.00	17:13																									
ZZZZZZ	1.00	17:18																									
ZZZZZZ	1.00	17:22																									
ZZZZZZ	1.00	17:27																									
ZZZZZZ	1.00	17:32																									
ZZZZZZ	5.00	17:37																									
ZZZZZZ	1.00	17:42																									
ZZZZZZ	1.00	17:47																									
ZZZZZZ	1.00	17:51																									
CCV	1.00	17:58				X			X	X					X	X				X			X				
CCB	1.00	18:02				X			X	X					X	X				X			X				
ZZZZZZ	1.00	18:07																									
ZZZZZZ	1.00	18:12																									
ZZZZZZ	1.00	18:17																									
ZZZZZZ	1.00	18:22																									
ZZZZZZ	1.00	18:27																									
ZZZZZZ	1.00	18:31																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/03 End Date: 10/16/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	18:36																									
ZZZZZZ	1.00	18:41																									
ZZZZZZ	5.00	18:46																									
ZZZZZZ	1.00	18:51																									
CCV	1.00	18:57				X			X	X					X	X				X			X				
CCB	1.00	19:02				X			X	X					X	X				X			X				
ZZZZZZ	1.00	19:07																									
ZZZZZZ	1.00	19:12																									
ZZZZZZ	1.00	19:16																									
ZZZZZZ	1.00	19:21																									
ZZZZZZ	1.00	19:26																									
ZZZZZZ	1.00	19:31																									
ZZZZZZ	1.00	19:36																									
ZZZZZZ	1.00	19:41																									
ZZZZZZ	1.00	19:46																									
ZZZZZZ	1.00	19:50																									
CCV	1.00	19:57				X			X	X					X	X				X			X				
CCB	1.00	20:01				X			X	X					X	X				X			X				
ZZZZZZ	1.00	20:06																									
ZZZZZZ	1.00	20:11																									
ZZZZZZ	1.00	20:16																									
ZZZZZZ	1.00	20:21																									
ZZZZZZ	1.00	20:26																									
ZZZZZZ	5.00	20:31																									
ZZZZZZ	1.00	20:35																									
ZZZZZZ	1.00	20:40																									
ZZZZZZ	1.00	20:45																									
ZZZZZZ	1.00	20:50																									
CCV	1.00	20:55				X			X	X					X	X				X			X				
CCB	1.00	21:00				X			X	X					X	X				X			X				
CRI	1.00	21:05				X			X	X					X	X				X			X				
ICSA	1.00	21:09				X			X	X					X	X				X			X				
ICSAB	1.00	21:14				X			X	X					X	X				X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/03 End Date: 10/16/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	21:19				X			X	X					X	X				X			X				
CCB	1.00	21:24				X			X	X					X	X				X			X				

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100703

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.15	75.0					

Comments:

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U R S Corporation

ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100703

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/10/2003 End Date: 10/10/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	12:17																X									
ICB	1.00	12:19																X									
CRA	1.00	12:20																X									
ZZZZZZ	1.00	12:21																									
ZZZZZZ	1.00	12:22																									
ZZZZZZ	1.00	12:23																									
ZZZZZZ	1.00	12:24																									
ZZZZZZ	1.00	12:26																									
ZZZZZZ	1.00	12:28																									
ZZZZZZ	1.00	12:30																									
ZZZZZZ	1.00	12:31																									
ZZZZZZ	1.00	12:32																									
ZZZZZZ	1.00	12:34																									
CCV	1.00	12:35																X									
CCB	1.00	12:36																X									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:40																									
ZZZZZZ	1.00	12:41																									
ZZZZZZ	1.00	12:42																									
ZZZZZZ	1.00	12:43																									
ZZZZZZ	1.00	12:44																									
ZZZZZZ	1.00	12:45																									
ZZZZZZ	1.00	12:47																									
ZZZZZZ	1.00	12:48																									
CCV	1.00	12:49																X									
CCB	1.00	12:51																X									
ZZZZZZ	1.00	12:53																									
ZZZZZZ	1.00	12:54																									
ZZZZZZ	1.00	12:55																									
ZZZZZZ	1.00	12:56																									
SW03-009	1.00	12:58																X									
SW03-008	1.00	12:59																X									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/10/2003 End Date: 10/10/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
SW03-007	1.00	13:01																X									
SW03-006	1.00	13:02																X									
SW03-010	1.00	13:03																X									
SW03-008\MS	1.00	13:04																X									
CCV	1.00	13:05																X									
CCB	1.00	13:07																X									
SW03-008\SD	1.00	13:08																X									
ZZZZZZ	1.00	13:10																									
ZZZZZZ	1.00	13:11																									
ZZZZZZ	1.00	13:13																									
ZZZZZZ	1.00	13:14																									
ZZZZZZ	1.00	13:16																									
ZZZZZZ	1.00	13:17																									
ZZZZZZ	1.00	13:18																									
ZZZZZZ	1.00	13:19																									
LCS	1.00	13:21																X									
CCV	1.00	13:22																X									
CCB	1.00	13:24																X									
ZZZZZZ	1.00	13:25																									
ZZZZZZ	1.00	13:27																									
ZZZZZZ	1.00	13:28																									
ZZZZZZ	1.00	13:29																									
ZZZZZZ	1.00	13:30																									
ZZZZZZ	1.00	13:32																									
ZZZZZZ	1.00	13:33																									
ZZZZZZ	1.00	13:34																									
ZZZZZZ	1.00	13:35																									
ZZZZZZ	1.00	13:37																									
CCV	1.00	13:38																X									
CCB	1.00	13:39																X									
ZZZZZZ	1.00	13:40																									
ZZZZZZ	1.00	13:41																									
ZZZZZZ	1.00	13:42																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/10/2003 End Date: 10/10/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:44																									
ZZZZZZ	1.00	13:45																									
ZZZZZZ	1.00	13:46																									
ZZZZZZ	1.00	13:47																									
ZZZZZZ	1.00	13:48																									
ZZZZZZ	1.00	13:49																									
ZZZZZZ	1.00	13:51																									
CCV	1.00	13:52																X									
CCB	1.00	13:53																X									
ZZZZZZ	1.00	13:54																									
ZZZZZZ	1.00	13:55																									
ZZZZZZ	1.00	13:57																									
ZZZZZZ	1.00	13:58																									
ZZZZZZ	1.00	13:59																									
ZZZZZZ	1.00	14:00																									
ZZZZZZ	1.00	14:01																									
ZZZZZZ	1.00	14:02																									
ZZZZZZ	1.00	14:04																									
Method Blank	1.00	14:05																X									
CCV	1.00	14:06																X									
CCB	1.00	14:07																X									
ZZZZZZ	1.00	14:08																									
ZZZZZZ	1.00	14:10																									
ZZZZZZ	1.00	14:11																									
ZZZZZZ	1.00	14:13																									
ZZZZZZ	1.00	14:15																									
ZZZZZZ	1.00	14:17																									
CCV	1.00	14:19																X									
CCB	1.00	14:20																X									

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SW846 3RD ED.

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100803

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.15	75.0					

Comments:

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U R S Corporation

ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/03 End Date: 10/13/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	12:26																X									
ICB	1.00	12:27																X									
CRA	1.00	12:28																X									
ZZZZZZ	1.00	12:29																									
ZZZZZZ	1.00	12:30																									
ZZZZZZ	1.00	12:32																									
ZZZZZZ	1.00	12:33																									
ZZZZZZ	1.00	12:34																									
ZZZZZZ	1.00	12:35																									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:38																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:40																									
CCV	1.00	12:41																X									
CCB	1.00	12:43																X									
ZZZZZZ	1.00	12:45																									
ZZZZZZ	1.00	12:46																									
SW03-004	1.00	12:47																X									
SW03-001	1.00	12:48																X									
ZZZZZZ	1.00	12:49																									
ZZZZZZ	1.00	12:51																									
ZZZZZZ	1.00	12:52																									
ZZZZZZ	1.00	12:54																									
ZZZZZZ	1.00	12:55																									
LCS	1.00	12:57																X									
CCV	1.00	12:58																X									
CCB	1.00	12:59																X									
ZZZZZZ	1.00	13:01																									
ZZZZZZ	1.00	13:02																									
ZZZZZZ	1.00	13:03																									
ZZZZZZ	1.00	13:04																									
ZZZZZZ	1.00	13:06																									
ZZZZZZ	1.00	13:07																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/03 End Date: 10/13/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:08																									
ZZZZZZ	1.00	13:10																									
ZZZZZZ	1.00	13:11																									
ZZZZZZ	1.00	13:12																									
CCV	1.00	13:14																X									
CCB	1.00	13:15																X									
ZZZZZZ	1.00	13:16																									
ZZZZZZ	1.00	13:17																									
ZZZZZZ	1.00	13:18																									
ZZZZZZ	1.00	13:20																									
ZZZZZZ	1.00	13:21																									
ZZZZZZ	1.00	13:22																									
ZZZZZZ	1.00	13:24																									
ZZZZZZ	1.00	13:25																									
ZZZZZZ	1.00	13:27																									
ZZZZZZ	1.00	13:28																									
CCV	1.00	13:29																X									
CCB	1.00	13:31																X									
ZZZZZZ	1.00	13:32																									
ZZZZZZ	1.00	13:33																									
ZZZZZZ	1.00	13:35																									
ZZZZZZ	1.00	13:36																									
ZZZZZZ	1.00	13:38																									
ZZZZZZ	1.00	13:39																									
ZZZZZZ	1.00	13:41																									
ZZZZZZ	1.00	13:42																									
ZZZZZZ	1.00	13:43																									
ZZZZZZ	1.00	13:45																									
CCV	1.00	13:46																X									
CCB	1.00	13:48																X									
ZZZZZZ	1.00	13:49																									
ZZZZZZ	1.00	13:51																									
ZZZZZZ	1.00	13:52																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/03 End Date: 10/13/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:54																									
ZZZZZZ	1.00	13:55																									
ZZZZZZ	1.00	13:57																									
ZZZZZZ	1.00	13:58																									
ZZZZZZ	1.00	14:00																									
ZZZZZZ	1.00	14:01																									
ZZZZZZ	1.00	14:03																									
CCV	1.00	14:04																X									
CCB	1.00	14:05																X									
ZZZZZZ	1.00	14:07																									
ZZZZZZ	1.00	14:08																									
ZZZZZZ	1.00	14:09																									
ZZZZZZ	1.00	14:11																									
ZZZZZZ	1.00	14:12																									
ZZZZZZ	1.00	14:13																									
ZZZZZZ	1.00	14:14																									
ZZZZZZ	1.00	14:16																									
ZZZZZZ	1.00	14:17																									
ZZZZZZ	1.00	14:18																									
CCV	1.00	14:19																X									
CCB	1.00	14:21																X									
ZZZZZZ	1.00	14:22																									
ZZZZZZ	1.00	14:23																									
ZZZZZZ	1.00	14:25																									
ZZZZZZ	1.00	14:27																									
ZZZZZZ	1.00	14:28																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:31																									
ZZZZZZ	1.00	14:32																									
ZZZZZZ	1.00	14:33																									
ZZZZZZ	1.00	14:35																									
CCV	1.00	14:36															X										
CCB	1.00	14:37															X										

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/03 End Date: 10/13/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:40																									
ZZZZZZ	1.00	14:41																									
ZZZZZZ	1.00	14:43																									
ZZZZZZ	1.00	14:44																									
ZZZZZZ	1.00	14:45																									
ZZZZZZ	1.00	14:46																									
ZZZZZZ	1.00	14:48																									
ZZZZZZ	1.00	14:58																									
ZZZZZZ	1.00	14:59																									
CCV	1.00	15:01																X									
CCB	1.00	15:02																X									
ZZZZZZ	1.00	15:03																									
ZZZZZZ	1.00	15:05																									
ZZZZZZ	1.00	15:06																									
ZZZZZZ	1.00	15:07																									
ZZZZZZ	1.00	15:08																									
ZZZZZZ	1.00	15:10																									
Method Blank	1.00	15:11																X									
ZZZZZZ	1.00	15:12																									
ZZZZZZ	1.00	15:13																									
ZZZZZZ	1.00	15:14																									
CCV	1.00	15:16																X									
CCB	1.00	15:17																X									
ZZZZZZ	1.00	15:18																									
ZZZZZZ	1.00	15:25																									
CCV	1.00	15:27																X									
CCB	1.00	15:28																X									

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-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

SW03-009L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 100703

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	30339.50		31095.15		2.5		P
Lead	6.00	U	30.00	U			P
Magnesium	7668.09		7758.15		1.2		P
Potassium	1468.80		2500.00	U	100.0		P
Sodium	9878.32		11745.95		18.9		P

Comments:

Form IX - IN

SW846 3RD ED.

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PREPARATION LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 100703

Method: P Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
SW03-009	10/9/2003	50.0	50.0
SW03-008	10/9/2003	50.0	50.0
SW03-007	10/9/2003	50.0	50.0
SW03-006	10/9/2003	50.0	50.0
SW03-010	10/9/2003	50.0	50.0
LFB	10/9/2003	50.0	50.0
Method Blank	10/9/2003	50.0	50.0

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/11/2003 End Date: 10/11/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	02:07				X			X	X					X	X				X			X				
STD 1	1.00	02:12				X			X	X					X	X				X			X				
STD 2	1.00	02:17				X			X	X					X	X				X			X				
STD 3	1.00	02:21				X			X	X					X	X				X			X				
STD 3 VER	1.00	02:26				X			X	X					X	X				X			X				
ICV	1.00	02:31				X			X	X					X	X				X			X				
ICB	1.00	02:35				X			X	X					X	X				X			X				
CRI	1.00	02:40				X			X	X					X	X				X			X				
ICSA	1.00	02:45				X			X	X					X	X				X			X				
ICSAB	1.00	02:49				X			X	X					X	X				X			X				
CCV	1.00	02:54				X			X	X					X	X				X			X				
CCB	1.00	02:59				X			X	X					X	X				X			X				
ZZZZZZ	1.00	03:03																									
ZZZZZZ	1.00	03:08																									
ZZZZZZ	1.00	03:13																									
ZZZZZZ	1.00	03:17																									
ZZZZZZ	1.00	03:22																									
ZZZZZZ	5.00	03:27																									
ZZZZZZ	1.00	03:31																									
ZZZZZZ	1.00	03:36																									
ZZZZZZ	1.00	03:41																									
ZZZZZZ	1.00	03:45																									
CCV	1.00	03:51				X			X	X					X	X				X			X				
CCB	1.00	03:56				X			X	X					X	X				X			X				
ZZZZZZ	1.00	04:01																									
ZZZZZZ	1.00	04:05																									
ZZZZZZ	1.00	04:10																									
ZZZZZZ	1.00	04:15																									
ZZZZZZ	1.00	04:20																									
ZZZZZZ	1.00	04:24																									
ZZZZZZ	1.00	04:29																									
ZZZZZZ	1.00	04:34																									
ZZZZZZ	1.00	04:38																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/11/2003 End Date: 10/11/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	04:43																									
CCV	1.00	04:49				X			X	X					X	X				X			X				
CCB	1.00	04:53				X			X	X					X	X				X			X				
ZZZZZZ	1.00	04:58																									
ZZZZZZ	1.00	05:03																									
ZZZZZZ	1.00	05:08																									
ZZZZZZ	1.00	05:12																									
ZZZZZZ	1.00	05:17																									
Method Blank	1.00	05:22				X			X	X					X	X				X							
LFB	1.00	05:26				X			X	X					X	X				X			X				
ZZZZZZ	1.00	05:31																									
ZZZZZZ	5.00	05:36																									
ZZZZZZ	1.00	05:40																									
CCV	1.00	05:46				X			X	X					X	X				X			X				
CCB	1.00	05:51				X			X	X					X	X				X			X				
ZZZZZZ	1.00	05:56																									
ZZZZZZ	1.00	06:00																									
ZZZZZZ	5.00	06:05																									
ZZZZZZ	1.00	06:10																									
ZZZZZZ	1.00	06:14																									
ZZZZZZ	1.00	06:19																									
ZZZZZZ	1.00	06:24																									
ZZZZZZ	1.00	06:29																									
ZZZZZZ	5.00	06:33																									
ZZZZZZ	1.00	06:38																									
CCV	1.00	06:44				X			X	X					X	X				X			X				
CCB	1.00	06:49				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:53																									
ZZZZZZ	1.00	06:58																									
ZZZZZZ	1.00	07:03																									
ZZZZZZ	5.00	07:07																									
ZZZZZZ	1.00	07:12																									
ZZZZZZ	1.00	07:17																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/11/2003 End Date: 10/11/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	07:21																									
ZZZZZZ	1.00	07:26																									
ZZZZZZ	1.00	07:31																									
SW03-009	1.00	07:35				X			X	X					X	X				X			X				
CCV	1.00	07:41				X			X	X					X	X				X			X				
CCB	1.00	07:46				X			X	X					X	X				X			X				
SW03-009L	5.00	07:51				X			X	X					X	X				X							
SW03-009A	1.00	07:55				X			X	X					X	X				X							
SW03-008	1.00	08:00				X			X	X					X	X				X							
SW03-007	1.00	08:05				X			X	X					X	X				X							
SW03-006	1.00	08:09				X			X	X					X	X				X							
SW03-010	1.00	08:14				X			X	X					X	X				X							
ZZZZZZ	1.00	08:19																									
ZZZZZZ	5.00	08:23																									
ZZZZZZ	1.00	08:28																									
CCV	1.00	08:34				X			X	X					X	X				X			X				
CCB	1.00	08:39				X			X	X					X	X				X			X				
ZZZZZZ	1.00	08:43																									
ZZZZZZ	5.00	08:48																									
ZZZZZZ	5.00	08:53																									
ZZZZZZ	5.00	08:58																									
ZZZZZZ	500.00	09:02																									
ZZZZZZ	50.00	09:07																									
ZZZZZZ	1.00	09:12																									
ZZZZZZ	1.00	09:16																									
ZZZZZZ	1.00	09:21																									
ZZZZZZ	1.00	09:26																									
CCV	1.00	09:32				X			X	X					X	X				X			X				
CCB	1.00	09:36				X			X	X					X	X				X			X				
ZZZZZZ	5.00	09:41																									
ZZZZZZ	1.00	09:46																									
ZZZZZZ	1.00	09:50																									
ZZZZZZ	1.00	09:55																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/11/2003 End Date: 10/11/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	10:00																									
ZZZZZZ	1.00	10:04																									
ZZZZZZ	1.00	10:09																									
CRI	1.00	10:15				X			X	X					X	X				X			X				
ICSA	1.00	10:20				X			X	X					X	X				X			X				
ICSAB	1.00	10:24				X			X	X					X	X				X			X				
CCV	1.00	10:29				X			X	X					X	X				X			X				
CCB	1.00	10:34				X			X	X					X	X				X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/12/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	18:07								X						X				X			X				
STD 1	1.00	18:12								X						X				X			X				
STD 2	1.00	18:17								X						X				X			X				
STD 3	1.00	18:22								X						X				X			X				
STD 3 VER	1.00	18:27								X						X				X			X				
ICV	1.00	18:32								X						X				X			X				
ICB	1.00	18:36								X						X				X			X				
CRI	1.00	18:41								X						X				X			X				
ICSA	1.00	18:46								X						X				X			X				
ICSAB	1.00	18:51								X						X				X			X				
CCV	1.00	18:57								X						X				X			X				
CCB	1.00	19:02								X						X				X			X				
ZZZZZZ	1.00	19:07																									
ZZZZZZ	1.00	19:12																									
ZZZZZZ	1.00	19:17																									
ZZZZZZ	5.00	19:21																									
ZZZZZZ	1.00	19:26																									
ZZZZZZ	1.00	19:31																									
ZZZZZZ	1.00	19:36																									
ZZZZZZ	1.00	19:41																									
ZZZZZZ	1.00	19:46																									
ZZZZZZ	1.00	19:50																									
CCV	1.00	19:57								X						X				X			X				
CCB	1.00	20:02								X						X				X			X				
ZZZZZZ	1.00	20:06																									
ZZZZZZ	1.00	20:11																									
ZZZZZZ	1.00	20:16																									
ZZZZZZ	1.00	20:21																									
ZZZZZZ	1.00	20:26																									
ZZZZZZ	1.00	20:31																									
ZZZZZZ	1.00	20:36																									
ZZZZZZ	1.00	20:40																									
ZZZZZZ	1.00	20:45																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/12/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	20:50																									
CCV	1.00	20:56								X						X				X			X				
CCB	1.00	21:01								X						X				X			X				
ZZZZZZ	1.00	21:06																									
ZZZZZZ	1.00	21:11																									
ZZZZZZ	1.00	21:16																									
ZZZZZZ	1.00	21:21																									
ZZZZZZ	1.00	21:26																									
ZZZZZZ	1.00	21:30																									
ZZZZZZ	1.00	21:35																									
ZZZZZZ	1.00	21:40																									
ZZZZZZ	1.00	21:45																									
ZZZZZZ	1.00	21:50																									
CCV	1.00	21:56								X						X				X			X				
CCB	1.00	22:01								X						X				X			X				
ZZZZZZ	20.00	22:06																									
ZZZZZZ	20.00	22:11																									
ZZZZZZ	100.00	22:15																									
ZZZZZZ	20.00	22:20																									
ZZZZZZ	20.00	22:25																									
ZZZZZZ	20.00	22:30																									
ZZZZZZ	5.00	22:35																									
ZZZZZZ	10.00	22:40																									
ZZZZZZ	5.00	22:45																									
ZZZZZZ	5.00	22:50																									
CCV	1.00	22:56								X						X				X			X				
CCB	1.00	23:01								X						X				X			X				
ZZZZZZ	5.00	23:06																									
Method Blank	1.00	23:10																					X				
ZZZZZZ	100.00	23:15																									
ZZZZZZ	500.00	23:20																									
ZZZZZZ	2500.00	23:25																									
ZZZZZZ	500.00	23:30																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/12/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	23:36																									
ZZZZZZ	1.00	23:41																									
ZZZZZZ	1.00	23:46																									
ZZZZZZ	5.00	23:51																									
CCV	1.00	23:57								X						X				X			X				
CCB	1.00	00:02								X						X				X			X				
ZZZZZZ	25.00	00:07																									
ZZZZZZ	5.00	00:12																									
ZZZZZZ	5.00	00:16																									
ZZZZZZ	5.00	00:21																									
ZZZZZZ	5.00	00:26																									
ZZZZZZ	5.00	00:31																									
ZZZZZZ	5.00	00:36																									
CRI	1.00	00:42								X						X				X			X				
ICSA	1.00	00:47								X						X				X			X				
ICSAB	1.00	00:52								X						X				X			X				
CCV	1.00	00:57								X						X				X			X				
CCB	1.00	01:02								X						X				X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/22/2003 End Date: 10/22/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	02:11																					X				
STD 1	1.00	02:16																					X				
STD 2	1.00	02:21																					X				
STD 3	1.00	02:25																					X				
STD 3 VER	1.00	02:30																					X				
ICV	1.00	02:35																					X				
ICB	1.00	02:40																					X				
CRI	1.00	02:45																					X				
ICSA	1.00	02:50																					X				
ICSAB	1.00	02:54																					X				
CCV	1.00	03:01																					X				
CCB	1.00	03:06																					X				
ZZZZZZ	1.00	03:10																									
ZZZZZZ	1.00	03:15																									
ZZZZZZ	1.00	03:20																									
ZZZZZZ	1.00	03:25																									
ZZZZZZ	1.00	03:30																									
ZZZZZZ	1.00	03:35																									
ZZZZZZ	1.00	03:40																									
ZZZZZZ	5.00	03:45																									
ZZZZZZ	1.00	03:49																									
ZZZZZZ	1.00	03:54																									
CCV	1.00	04:01																					X				
CCB	1.00	04:05																					X				
ZZZZZZ	1.00	04:10																									
ZZZZZZ	1.00	04:15																									
ZZZZZZ	1.00	04:20																									
ZZZZZZ	1.00	04:25																									
ZZZZZZ	1.00	04:30																									
ZZZZZZ	1.00	04:35																									
ZZZZZZ	1.00	04:40																									
ZZZZZZ	1.00	04:44																									
ZZZZZZ	1.00	04:49																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/22/2003 End Date: 10/22/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	04:54																									
CCV	1.00	05:00																					X				
CCB	1.00	05:05																					X				
ZZZZZZ	1.00	05:10																									
ZZZZZZ	1.00	05:15																									
ZZZZZZ	1.00	05:20																									
ZZZZZZ	1.00	05:25																									
ZZZZZZ	1.00	05:30																									
ZZZZZZ	1.00	05:35																									
ZZZZZZ	1.00	05:39																									
ZZZZZZ	1.00	05:44																									
ZZZZZZ	1.00	05:49																									
ZZZZZZ	5.00	05:54																									
CCV	1.00	06:00																					X				
CCB	1.00	06:05																					X				
ZZZZZZ	1.00	06:10																									
ZZZZZZ	1.00	06:15																									
ZZZZZZ	1.00	06:20																									
ZZZZZZ	1.00	06:25																									
ZZZZZZ	100.00	06:30																									
ZZZZZZ	100.00	06:34																									
SW03-009L	5.00	06:39																					X				
SW03-009A	1.00	06:44																					X				
SW03-008	1.00	06:49																					X				
SW03-007	1.00	06:54																					X				
CCV	1.00	07:00																					X				
CCB	1.00	07:05																					X				
SW03-006	1.00	07:10																					X				
SW03-010	1.00	07:15																					X				
CRI	1.00	07:21																					X				
ICSA	1.00	07:26																					X				
ICSAB	1.00	07:31																					X				
CCV	1.00	07:37																					X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/22/2003 End Date: 10/22/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	07:42																					X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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DATA USABILITY SUMMARY REPORT SURFACE WATER SAMPLING EVENT NOVEMBER 2003

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999.

2.0 ANALYTICAL METHODS

The data being evaluated are from the November 24-25, 2003, sampling of ten surface water samples, one matrix spike/matrix spike duplicate (MS/MSD) pair, and four trip blanks. On October 28, 2003, two locations were resampled for monomethyl mercury analysis. The analytical laboratory that performed the analyses is Severn Trent Laboratories, located in Amherst, New York (STL-Buffalo). The samples were analyzed for the following parameters:

- Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260B;
- TCL semivolatile organic compounds (SVOCs) by EPA Method 8270C;
- TCL pesticides by EPA Method 8081A;
- TCL polychlorinated biphenyls (PCBs) by EPA Method 8082;
- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) by EPA Method 8290;
- arsenic, cadmium, calcium, lead, magnesium, potassium, and sodium by EPA Method 6010B;
- mercury by EPA Method 7470A;
- total alkalinity and bicarbonate alkalinity by EPA Method 310.1;
- chloride and sulfate by EPA Method 300.0;
- total hardness by EPA Method 130.2;
- monomethyl mercury by EPA Method 1630, modified;
- total dissolved solids (TDS) by EPA Method 160.1;

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- total organic carbon (TOC) by EPA Method 415.1;
- total suspended solids (TSS) by EPA Method 160.2;
- heterotrophic plate count by Standard Method 9215B;
- total coliform by Standard Method 9222B;
- fecal coliform by Standard Method 9222D; and
- *E. coli* by Standard Method 9221.

The methods referenced are from: *Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846*, Final Update III, United States Environmental Protection Agency (USEPA), June 1997; *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, USEPA, Revised March 1983; *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, 1998; and Modified *Method 1630, Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS*, USEPA, Draft, August 1998.

STL-Buffalo subcontracted monomethyl mercury analyses to Brooks Rand, LLC, located in Seattle, WA; 2,3,7,8-TCDD analyses to STL-Knoxville, located in Knoxville, TN; and heterotrophic plate count, total and fecal coliform, and *E. coli* analyses to MTL-ACTS, Bureau Veritas Consumer Products Services, Inc., located in Buffalo, NY (ACTS).

All data were reviewed for completeness with regard to deliverables, holding times, and compliance with the referenced methods. The data were qualified following the guidelines presented in USEPA Region II *CLP Organics Data Review and Preliminary Review*, March 2001; USEPA Region II *Evaluation of Metals Data for the CLP Program*, SOP HW-2, Revision 11, January 1992; and USEPA Region II *SOP for SW-846 Method 8290, Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994. Qualifications applied to the data include "J/UJ" (estimated concentration/estimated quantitation limit) and "R" (rejected). A summary of sample qualification is presented on Table 1. The validated analytical results are presented on Tables 2 and 3. Definitions of USEPA Region II data qualifiers are presented in Attachment A. Definitions of sample concentration

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units are presented in Attachment B. Documentation supporting qualification of data is presented in Attachment C. This report discusses only data qualified due to nonconformance with method and/or project requirements.

3.0 DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were in accordance with NYSDEC Analytical Services Protocol (ASP), June 2000, Category B requirements.

4.0 HOLDING TIMES

Sample SW03-001 was analyzed for heterotrophic plate count, total coliform, and fecal coliform approximately one hour past the NYSDEC ASP holding time of six hours from the validated time of sample receipt at the laboratory. The detected results for heterotrophic plate count and total coliform were qualified "J" and the non-detect result for fecal coliform qualified "UJ."

5.0 NONCONFORMANCES

The following quality control (QC) nonconformances were noted during data review:

- Initial and Continuing Calibrations

  The initial calibration (ICAL) average relative response factor (RRF) for the VOC acetone was below the USEPA Region II QC limit of 0.05. The non-detect results for acetone were qualified "R" in the samples associated with this ICAL, as listed on Table 1.

  The percent difference (%D) between the ICAL average RRF and the RRF in one or more of the continuing calibration (CCAL) standards exceeded the USEPA Region II QC limit of 25% for the VOCs dichlorodifluoromethane, trichlorofluoromethane, bromomethane, chloromethane, and 1,2,4-trichlorobenzene. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "UJ."

- Surrogate Recoveries

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The PCB analysis for sample SW03-004 exhibited a recovery below QC limits for the surrogate decachlorobiphenyl. The sample was not re-extracted. The results for all PCBs (all were non-detect) were qualified "UJ."

- Serial Dilutions

The %D in concentration between sample SW03-006 and the serial dilution analysis performed on this sample exceeded 10% for the metals sodium (Na) and potassium (K). The results for Na and K greater than 10 times the instrument detection limit (IDL) in the associated samples were qualified "J", as listed on Table 1.

6.0 SAMPLE RESULTS AND REPORTING

All quantitation limits were reported in accordance with method requirements and were adjusted for sample size and dilution factors. The results for delta-BHC in samples SW03-006 and SW03-011 were qualified "J" by the laboratory indicating estimated concentrations below the quantitation limits. Monomethyl mercury results for several samples were qualified "B" by the laboratory, indicating estimated concentrations below the quantitation limits.

The final results as listed on the laboratory reporting forms (i.e., Form 1) were in agreement with the raw data, and no transcription/calculation errors were detected except for the following:

- The laboratory did not report the TCL pesticide endrin ketone on Form 1. In addition, results were reported for technical chlordane, as opposed to the requested parameters alpha-chlordane and gamma-chlordane. However, information for these compounds was provided in the raw data, and the laboratory verified that these compounds were not detected in any of the samples. Therefore, the results for endrin ketone, alpha-chlordane, and gamma-chlordane are reported in Tables 2 and 3.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified "J/UJ"(estimated/estimated quantitation limit) are considered

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conditionally usable. Those results qualified "R" (rejected) are unusable. All other sample results are usable as reported.

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TABLE 1
SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
SW03-002, SW03-004, SW03-008, SW03-009, SW03-010, and Trip Blank (both from 11/25/03)	VOC	ICAL RRF <0.05 for acetone.	Qualify non-detect results "R."
SW03-005, SW03-006, SW03-007, SW03-011 and Trip Blank (11/24/03)	VOC	CCAL >25 %D for dichlorodifluoromethane, trichlorofluoromethane, and 1,2,4-trichlorobenzene.	Qualify non-detect results "UJ."
SW03-001 and TB2-11/24/03	VOC	CCAL >25 %D for bromomethane, chloromethane, dichlorodifluoromethane, and 1,2,4-trichlorobenzene.	Qualify non-detect results "UJ."
SW03-004	PCBs	Surrogate recoveries below quality control limits.	Qualify non-detect results "UJ."
SW03-005, SW03-006, SW03-007, and SW03-011	Metals	Serial dilution outlier for sodium and potassium.	Qualify detected results >10X IDL "J."
SW03-001	Heterotrophic plate count, total coliform, and fecal coliform.	Holding time exceedance.	Qualify detected result "J" and non-detect results "UJ."

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Sample ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/24/03	11/24/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	R	R	5.0 U	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Checked By_GEK 1/19/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Sample ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/24/03	11/24/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Checked By_GEK 1/19/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Sample ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/24/03	11/24/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9 U	10 U	9 U	10 U	9 U
2,4,5-Trichlorophenol	UG/L	9 U	10 U	9 U	10 U	9 U
2,4,6-Trichlorophenol	UG/L	9 U	10 U	9 U	10 U	9 U
2,4-Dichlorophenol	UG/L	9 U	10 U	9 U	10 U	9 U
2,4-Dimethylphenol	UG/L	9 U	10 U	9 U	10 U	9 U
2,4-Dinitrophenol	UG/L	47 U	48 U	47 U	48 U	47 U
2,4-Dinitrotoluene	UG/L	9 U	10 U	9 U	10 U	9 U
2,6-Dinitrotoluene	UG/L	9 U	10 U	9 U	10 U	9 U
2-Chloronaphthalene	UG/L	9 U	10 U	9 U	10 U	9 U
2-Chlorophenol	UG/L	9 U	10 U	9 U	10 U	9 U
2-Methylnaphthalene	UG/L	9 U	10 U	9 U	10 U	9 U
2-Methylphenol (o-cresol)	UG/L	9 U	10 U	9 U	10 U	9 U
2-Nitroaniline	UG/L	47 U	48 U	47 U	48 U	47 U
2-Nitrophenol	UG/L	9 U	10 U	9 U	10 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	47 U	48 U	47 U	48 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	48 U	47 U	48 U	47 U
4-Bromophenyl-phenylether	UG/L	9 U	10 U	9 U	10 U	9 U
4-Chloro-3-methylphenol	UG/L	9 U	10 U	9 U	10 U	9 U
4-Chloroaniline	UG/L	9 U	10 U	9 U	10 U	9 U

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Checked By_GEK 1/19/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Sample ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/24/03	11/24/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	9 U	10 U	9 U	10 U	9 U
4-Methylphenol (p-cresol)	UG/L	9 U	10 U	9 U	10 U	9 U
4-Nitroaniline	UG/L	47 U	48 U	47 U	48 U	47 U
4-Nitrophenol	UG/L	47 U	48 U	47 U	48 U	47 U
Acenaphthene	UG/L	9 U	10 U	9 U	10 U	9 U
Acenaphthylene	UG/L	9 U	10 U	9 U	10 U	9 U
Acetophenone	UG/L	9 U	10 U	9 U	10 U	9 U
Anthracene	UG/L	9 U	10 U	9 U	10 U	9 U
Atrazine	UG/L	9 U	10 U	9 U	10 U	9 U
Benzaldehyde	UG/L	47 U	48 U	47 U	48 U	47 U
Benzo(a)anthracene	UG/L	9 U	10 U	9 U	10 U	9 U
Benzo(a)pyrene	UG/L	9 U	10 U	9 U	10 U	9 U
Benzo(b)fluoranthene	UG/L	9 U	10 U	9 U	10 U	9 U
Benzo(g,h,i)perylene	UG/L	9 U	10 U	9 U	10 U	9 U
Benzo(k)fluoranthene	UG/L	9 U	10 U	9 U	10 U	9 U
bis(2-Chloroethoxy)methane	UG/L	9 U	10 U	9 U	10 U	9 U
bis(2-Chloroethyl)ether	UG/L	9 U	10 U	9 U	10 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	10 U	9 U	10 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	10 U	9 U	10 U	9 U
Butylbenzylphthalate	UG/L	9 U	10 U	9 U	10 U	9 U
Caprolactam	UG/L	9 U	10 U	9 U	10 U	9 U
Carbazole	UG/L	9 U	10 U	9 U	10 U	9 U
Chrysene	UG/L	9 U	10 U	9 U	10 U	9 U

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Sample ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/24/03	11/24/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	9 U	10 U	9 U	10 U	9 U
Dibenzofuran	UG/L	9 U	10 U	9 U	10 U	9 U
Diethylphthalate	UG/L	9 U	10 U	9 U	10 U	9 U
Dimethylphthalate	UG/L	9 U	10 U	9 U	10 U	9 U
Di-n-butylphthalate	UG/L	9 U	10 U	9 U	10 U	9 U
Di-n-octylphthalate	UG/L	9 U	10 U	9 U	10 U	9 U
Fluoranthene	UG/L	9 U	10 U	9 U	10 U	9 U
Fluorene	UG/L	9 U	10 U	9 U	10 U	9 U
Hexachlorobenzene	UG/L	9 U	10 U	9 U	10 U	9 U
Hexachlorobutadiene	UG/L	9 U	10 U	9 U	10 U	9 U
Hexachlorocyclopentadiene	UG/L	22 U	22 U	22 U	23 U	22 U
Hexachloroethane	UG/L	9 U	10 U	9 U	10 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	10 U	9 U	10 U	9 U
Isophorone	UG/L	9 U	10 U	9 U	10 U	9 U
Naphthalene	UG/L	9 U	10 U	9 U	10 U	9 U
Nitrobenzene	UG/L	9 U	10 U	9 U	10 U	9 U
N-Nitroso-di-n-propylamine	UG/L	9 U	10 U	9 U	10 U	9 U
N-Nitrosodiphenylamine	UG/L	9 U	10 U	9 U	10 U	9 U
Pentachlorophenol	UG/L	47 U	48 U	47 U	48 U	47 U
Phenanthrene	UG/L	9 U	10 U	9 U	10 U	9 U
Phenol	UG/L	9 U	10 U	9 U	10 U	9 U
Pyrene	UG/L	9 U	10 U	9 U	10 U	9 U

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Sample ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/24/03	11/24/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.040 J
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	0.50 U	0.47 UJ	0.48 U	0.48 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Sample ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/24/03	11/24/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	0.50 U	0.47 UJ	0.48 U	0.48 U
Aroclor 1232	UG/L	0.47 U	0.50 U	0.47 UJ	0.48 U	0.48 U
Aroclor 1242	UG/L	0.47 U	0.50 U	0.47 UJ	0.48 U	0.48 U
Aroclor 1248	UG/L	0.47 U	0.50 U	0.47 UJ	0.48 U	0.48 U
Aroclor 1254	UG/L	0.47 U	0.50 U	0.47 UJ	0.48 U	0.48 U
Aroclor 1260	UG/L	0.47 U	0.50 U	0.47 UJ	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.7 U	1.8 U	3.2 U	2.6 U	1.8 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	58,700	39,500	82,100	89,000	35,800
Lead	UG/L	6.0 U	6.0 U	16.8	6.0 U	6.0 U
Magnesium	UG/L	21,500	13,800	27,000	32,200	9,100
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	2,730	2,920	11,800	2,980 J	2,020 J
Sodium	UG/L	24,500	22,700	4,960	53,000 J	11,400 J
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	148	89.0	211	218	101
Alkalinity, Total (as CaCO3)	MG/L	148	89.0	211	218	101
Chloride	MG/L	41.1	40.4	15.2	80.0	20.8
Hardness	MG/L	292	220	410	340	132
Monomethyl Mercury	NG/L	0.086 B	0.555	1.590	0.25 U	0.25 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Sample ID		SW03-001	SW03-002	SW03-004	SW03-005	SW03-006
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/24/03	11/24/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	92.4	55.1	92.0	108	27.6
Total Dissolved Solids	MG/L	317	233	388	492	163
Total Organic Carbon (TOC)	MG/L	4.0	10.1	23.1	3.0	2.0
Total Suspended Solids	MG/L	4.0 U	13.0	39.0	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	2,700 J	5,400	110,000	1,200	620
Total Coliform	C/100 ML	360 J	1,100	94,000	880	690
Fecal Coliform	C/100 ML	20 UJ	20 U	100	20	20
E Coli	POS/NEG	POS	POS	NEG	POS	POS

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Sample ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/25/03	11/24/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	R	R	R	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Sample ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/25/03	11/24/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Sample ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/25/03	11/24/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9 U	9 U	9 U	10 U	9 U
2,4,5-Trichlorophenol	UG/L	9 U	9 U	9 U	10 U	9 U
2,4,6-Trichlorophenol	UG/L	9 U	9 U	9 U	10 U	9 U
2,4-Dichlorophenol	UG/L	9 U	9 U	9 U	10 U	9 U
2,4-Dimethylphenol	UG/L	9 U	9 U	9 U	10 U	9 U
2,4-Dinitrophenol	UG/L	47 U	47 U	47 U	50 U	47 U
2,4-Dinitrotoluene	UG/L	9 U	9 U	9 U	10 U	9 U
2,6-Dinitrotoluene	UG/L	9 U	9 U	9 U	10 U	9 U
2-Chloronaphthalene	UG/L	9 U	9 U	9 U	10 U	9 U
2-Chlorophenol	UG/L	9 U	9 U	9 U	10 U	9 U
2-Methylnaphthalene	UG/L	9 U	9 U	9 U	10 U	9 U
2-Methylphenol (o-cresol)	UG/L	9 U	9 U	9 U	10 U	9 U
2-Nitroaniline	UG/L	47 U	47 U	47 U	50 U	47 U
2-Nitrophenol	UG/L	9 U	9 U	9 U	10 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	20 U	19 U
3-Nitroaniline	UG/L	47 U	47 U	47 U	50 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	47 U	47 U	50 U	47 U
4-Bromophenyl-phenylether	UG/L	9 U	9 U	9 U	10 U	9 U
4-Chloro-3-methylphenol	UG/L	9 U	9 U	9 U	10 U	9 U
4-Chloroaniline	UG/L	9 U	9 U	9 U	10 U	9 U

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Sample ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/25/03	11/24/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	9 U	9 U	9 U	10 U	9 U
4-Methylphenol (p-cresol)	UG/L	9 U	9 U	9 U	10 U	9 U
4-Nitroaniline	UG/L	47 U	47 U	47 U	50 U	47 U
4-Nitrophenol	UG/L	47 U	47 U	47 U	50 U	47 U
Acenaphthene	UG/L	9 U	9 U	9 U	10 U	9 U
Acenaphthylene	UG/L	9 U	9 U	9 U	10 U	9 U
Acetophenone	UG/L	9 U	9 U	9 U	10 U	9 U
Anthracene	UG/L	9 U	9 U	9 U	10 U	9 U
Atrazine	UG/L	9 U	9 U	9 U	10 U	9 U
Benzaldehyde	UG/L	47 U	47 U	47 U	50 U	47 U
Benzo(a)anthracene	UG/L	9 U	9 U	9 U	10 U	9 U
Benzo(a)pyrene	UG/L	9 U	9 U	9 U	10 U	9 U
Benzo(b)fluoranthene	UG/L	9 U	9 U	9 U	10 U	9 U
Benzo(g,h,i)perylene	UG/L	9 U	9 U	9 U	10 U	9 U
Benzo(k)fluoranthene	UG/L	9 U	9 U	9 U	10 U	9 U
bis(2-Chloroethoxy)methane	UG/L	9 U	9 U	9 U	10 U	9 U
bis(2-Chloroethyl)ether	UG/L	9 U	9 U	9 U	10 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	9 U	9 U	10 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	9 U	9 U	10 U	9 U
Butylbenzylphthalate	UG/L	9 U	9 U	9 U	10 U	9 U
Caprolactam	UG/L	9 U	9 U	9 U	10 U	9 U
Carbazole	UG/L	9 U	9 U	9 U	10 U	9 U
Chrysene	UG/L	9 U	9 U	9 U	10 U	9 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/16/04_
Checked By_GEK 1/19/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Sample ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/25/03	11/24/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	9 U	9 U	9 U	10 U	9 U
Dibenzofuran	UG/L	9 U	9 U	9 U	10 U	9 U
Diethylphthalate	UG/L	9 U	9 U	9 U	10 U	9 U
Dimethylphthalate	UG/L	9 U	9 U	9 U	10 U	9 U
Di-n-butylphthalate	UG/L	9 U	9 U	9 U	10 U	9 U
Di-n-octylphthalate	UG/L	9 U	9 U	9 U	10 U	9 U
Fluoranthene	UG/L	9 U	9 U	9 U	10 U	9 U
Fluorene	UG/L	9 U	9 U	9 U	10 U	9 U
Hexachlorobenzene	UG/L	9 U	9 U	9 U	10 U	9 U
Hexachlorobutadiene	UG/L	9 U	9 U	9 U	10 U	9 U
Hexachlorocyclopentadiene	UG/L	22 U	22 U	22 U	24 U	22 U
Hexachloroethane	UG/L	9 U	9 U	9 U	10 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	9 U	9 U	10 U	9 U
Isophorone	UG/L	9 U	9 U	9 U	10 U	9 U
Naphthalene	UG/L	9 U	9 U	9 U	10 U	9 U
Nitrobenzene	UG/L	9 U	9 U	9 U	10 U	9 U
N-Nitroso-di-n-propylamine	UG/L	9 U	9 U	9 U	10 U	9 U
N-Nitrosodiphenylamine	UG/L	9 U	9 U	9 U	10 U	9 U
Pentachlorophenol	UG/L	47 U	47 U	47 U	50 U	47 U
Phenanthrene	UG/L	9 U	9 U	9 U	10 U	9 U
Phenol	UG/L	9 U	9 U	9 U	10 U	9 U
Pyrene	UG/L	9 U	9 U	9 U	10 U	9 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/16/04_
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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Sample ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/25/03	11/24/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.043 J
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/16/04_
Checked By_GEK 1/19/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Sample ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/25/03	11/24/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1232	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1242	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1248	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1254	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Aroclor 1260	UG/L	0.47 U	0.47 U	0.47 U	0.50 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.9 U	1.4 U	1.4 U	1.8 U	1.1 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	34,400	35,300	36,200	41,100	36,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	8,800	9,590	9,480	9,690	9,070
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	1,920 J	2,510	2,540	2,620	2,050 J
Sodium	UG/L	10,600 J	9,600	11,200	15,300	11,700 J
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	95.0	93.0	90.0	101	98.0
Alkalinity, Total (as CaCO3)	MG/L	95.0	93.0	90.0	101	98.0
Chloride	MG/L	18.2	18.0	20.4	27.9	19.6
Hardness	MG/L	128	140	172	144	144
Monomethyl Mercury	NG/L	0.25 U	0.140 B	0.118 B	0.092 B	0.25 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/16/04_
Checked By_GEK 1/19/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Sample ID		SW03-007	SW03-008	SW03-009	SW03-010	SW03-011
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/24/03	11/25/03	11/25/03	11/25/03	11/24/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	25.6	24.8	26.9	36.5	27.6
Total Dissolved Solids	MG/L	153	148	168	196	162
Total Organic Carbon (TOC)	MG/L	1.8	1.6	1.7	2.4	2.0
Total Suspended Solids	MG/L	4.0 U	47.0	61.0	22.0	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	540	740	1,300	2,500	920
Total Coliform	C/100 ML	20 U	40	20 U	580	450
Fecal Coliform	C/100 ML	20	20 U	20 U	80	100
E Coli	POS/NEG	POS	POS	POS	POS	POS

Flags assigned during chemistry validation are shown.

Made By_JJL 1/16/04_
Checked By_GEK 1/19/04_

Detection Limits shown are PQL

Printed: 4/13/2004 10:35:37 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'N' AND [tblRES].[MATRIX] = 'WS'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-11/24/03	TRIP BLANK	TRIP BLANK	TRIP BLANK
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		11/24/03	11/24/03	11/25/03	11/25/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	5.0 U	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/16/04_
Checked By_GEK 1/19/04_

Detection Limits shown are PQL

Printed: 4/13/2004 10:39:50 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'TB'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-11/24/03	TRIP BLANK	TRIP BLANK	TRIP BLANK
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		11/24/03	11/24/03	11/25/03	11/25/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds					
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/16/04_
Checked By_GEK 1/19/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'TB'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
NOVEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-11/24/03	TRIP BLANK	TRIP BLANK	TRIP BLANK
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		11/24/03	11/24/03	11/25/03	11/25/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds					
Trichlorofluoromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/16/04_
Checked By_GEK 1/19/04_

Detection Limits shown are PQL

Printed: 4/13/2004 10:40:16 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #11/24/03# AND #11/25/03# AND [tblRES].[SACODE] = 'TB'

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ATTACHMENT A
DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT B
DEFINITIONS OF SAMPLE CONCENTRATION UNITS

PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.
POS/NEG	The sample tested positive or negative for this parameter.

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ATTACHMENT C
DOCUMENTATION SUPPORTING QUALIFICATION OF DATA

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) George Kislak, Kyle Jackson

LAB STL-Buffalo

COOLER 1,2,3,4 of 4

PAGE 1 of 2

DELIVERY SERVICE: hand delivered AIRBILL NO.:

TESTS: TCL VOA; TOC; TCL SVOA; TCL Pest; TCL PCB; Dioxin 2,3,7,8-TCDD; METALS; TAS, TSS, Cl, Sulfate

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1 L Amber	1 L Amber	1 L Amber	1 L Amber	16 oz HDPE HNO3	16 oz HDPE HNO3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-006	11/24/03	0950	G	SW03-006	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
SW03-011	↓	1055	↓	SW03-011	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
SW03-007	↓	1200	↓	SW03-007	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
SW03-005	↓	1330	↓	SW03-005	WS	14	3	2	2	2	1	2	1	1		N1	-	-	-
TB	11/24/03	-	-	TB1-11/24/03	WQ	1	1	-	-	-	-	-	-	-		TB1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	11/24/03	1505	STL-Buffalo	11/24/03	15:06
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

Samples 4@4.0°C

URSF-075C/1 OF 1/CofCR/GCM

242/2735

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.000006

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) George Kislak / Kyle Dickson

DELIVERY SERVICE: hand delivered AIRBILL NO.: —

LAB STL Buffalo

COOLER 1,2,3,4 of 4

PAGE 2 of 2

TESTS: TALK BICARBONATE; TITRARD; Total Coliform & E. coli; Hetr. Plate Ct. Fecal; Methyl Mercury

BOTTLE TYPE AND PRESERVATIVE: 6 oz HDPE zero headspace; 4 oz HDPE HNO3; 4 oz HDPE NaOH; 4 oz HDPE NaOH; 8 oz glass zero headspace

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	6 oz HDPE zero headspace	4 oz HDPE HNO3	4 oz HDPE NaOH	4 oz HDPE NaOH	8 oz glass zero headspace				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-006	11/24/03	0950	G	SW03-006	WS	5	1	1	1	1	1					N1	–	–	–
SW03-011	↓	1055	↓	SW03-011	WS	5	1	1	1	1	1					N1	–	–	–
SW03-007	↓	1200	↓	SW03-007	WS	5	1	1	1	1	1					N1	–	–	–
SW03-005	↓	1330	↓	SW03-005	WS	5	1	1	1	1	1					N1	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	11/24/03	1505	STL-Buffalo	11/24/03	1506
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

404.0 °C

URSF-075C/1 OF 1/CofCR/GCM

243/2735

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1[illegible]732.0001

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) George Kislik / Kyle Jackson

DELIVERY SERVICE: Land Delivered AIRBILL NO.: —

LAB STL - Buffalo

COOLER 1 of 1

PAGE 2 of 2

TESTS: TCL VOA, TOC, TCL SVOA, TCL Pest, TCL PCB, 2378-TCDD, Metals, TDS, TSS, Cl, SO4

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40mL VOA	40mL VOA HCl	1L Amber	1L Amber	1L Amber	1L Amber	16oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
SW03-001	11/24/03	1600	G	SW03-001	WS	14	3	2	2	2	1	2	1	1		NI	—	—	—
Field Blank	11/24/03	—	—	TB2-11/24/03	WQ	1	1	—	—	—	—	—	—	—		TBI	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	11/25/03	0150	[illegible] Buffalo	11/25/03	0850
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

4.0°C

URSF-075C/1 OF 1/CofCR/GCM

244/2735

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117 1932 00306

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) George Kislok / Kyle Jackson

DELIVERY SERVICE: Land Delivered AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 1

PAGE 2 of 2

TESTS: TAL Metals (Dissolved); TTHM; Total Coliform Prod; Met Plate Ct; Fecal Coli; Methyl Mercury

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE Zero Headspace; 4 oz HDPE (HNO3); 4 oz HDPE Na2S2O3; 4 oz HDPE Na2S2O3; 4 oz Glass Zero Headspace

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE Zero Headspace	4 oz HDPE (HNO3)	4 oz HDPE Na2S2O3	4 oz HDPE Na2S2O3	4 oz Glass Zero Headspace				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SWCB-001	11/24/03	1600	G	SW07-001	WS	5	1	1	1	1	1					Ni	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	11/25/03	0850	STL BUFFALO	11/25/03	0850
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

4.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

245/2735

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) George Kistler / Kyle Jackson

DELIVERY SERVICE: hand delivered AIRBILL NO.: —

LAB STL - Buffalo

COOLER 1 2 3 4 of 4

PAGE 2 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	6 oz HDPE zero headspace	4 oz HDPE HNO3	4 oz HDPE NaOH	4 oz HDPE NaS2O3	8 oz glass zero headspace				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-004	11/25/03	1000	G	SW03-004	WS	5	1	1	1	1	1					NI	–	–	–
SW03-002	↓	1130	↓	SW03-002	↓	5	1	1	1	1	1					NI	–	–	–
SW03-008		1322		SW03-008		5	1	1	1	1	1					NI	–	–	–
SW03-009		1353		SW03-009		5	1	1	1	1	1					NI	–	–	–
SW03-010		1440		SW03-010		2 Bm	–	–	1	1	–					NI	–	–	–
SW03-010		↓		↓		2	–	–	1	1	–					MSI	–	–	–
SW03-010	↓	↓	↓	↓	↓	2	–	–	1	1	–					SDI	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	1520	11/25/03			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			for by SR RM	11/26/03	1700

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

4/05.02

URSF-075C/1 OF 1/CofCR/GCM

246/2735

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171922.00006 SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) George Ihslule / Kyle Jackson

DELIVERY SERVICE: hand delivered AIRBILL NO.: —

LAB STL - Buffalo

COOLER 1,2,3,4 of 4

PAGE 1 of 2

TESTS: VOA, SVOA, PEST, PCB, 2,3,7,8-TCDD, TOC, METALS, TDS, TSS, Cl-, SO4

BOTTLE TYPE AND PRESERVATIVE: 40 ml VOA; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 40 ml VOA HCl; 16 oz HDPE HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 ml VOA	1L Amber	1L Amber	1L Amber	1L Amber	40 ml VOA HCl	16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-004	11/25/03	1100	G	SW03-004	WS	14	3	2	2	1	2	2	1	1		N1	-	-	-
SW03-007	↓	1130	↓	SW03-007	↓	14	3	2	2	1	2	2	1	1		N1	-	-	-
SW03-008	↓	1322	↓	SW03-008	↓	14	3	2	2	1	2	2	1	1		N1	-	-	-
SW03-009	↓	1353	↓	SW03-009	↓	14	3	2	2	1	2	2	1	1		N1	-	-	-
~~SW03-010~~	↓	~~1440~~	↓	~~SW03-010~~	↓		~~3~~	~~2~~	~~2~~	~~1~~	~~2~~	~~2~~	~~1~~	~~1~~		~~N1~~	~~-~~	~~-~~	~~-~~
Field QC	↓		↓	TB-1 10/25/03	WQ	1	1	-	-	-	-	-	-	-		TB1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	1520	11/25/03			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[illegible]	11/25/03	17:20

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files 4/25/04

URSF-075C/1 OF 1/CofCR/GCM

247/2735

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Custody Record

SERVICES Severn Trent Laboratories, Inc.

STL-4124 (0901)

Client: JES	Project Manager: Colin Wainwright	Date: 11/25/03	Chain of Custody Number: 133606
Address: 640 Ellicott St.	Telephone Number (Area Code)/Fax Number: 716-852-5036 / 2545	Lab Number	Page 1 of 1
City: Buffalo; State: NY; Zip Code: 14203	Site Contact	Lab Contact	
Project Name and Location (State): NYPA	Carrier/Waybill Number: hand delivered		
Contract/Purchase Order/Quote No.			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil		Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH		Analysis (Attach list if more space is needed): TCL VOA	TCL SVOA	TCL PEST	TCL PCB	Metals	2378-TCDD	TOC	TDS/TSS, Cl, SO4	TALK, Alkalinity	T Hardness	Reactivity		Special Instructions/ Conditions of Receipt
SW03-010	11/25/03	1600		X				X		X	X				3	2	2	1	1	2	2	1	1	1	1		ALL VOC is one cooler
↓ MS	↓	↓		↓				↓		↓	↓				3	2	2	1	1	2	2	1	1	1	1		
↓ MSD/MD	↓	↓		↓				↓		↓	↓				3	2	2	1	1	2	2	1	1	1	1		
TB-2 11/25/03	↓	—		X																							TRIP BLANK

Possible Hazard Identification: ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal: ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: ☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☒ 21 Days ☐ Other _____

QC Requirements (Specify)

1. Relinquished By: George Kischk	Date: 11/25/03	Time: 1730	1. Received By: [signature] SA Burns	Date: 11/25/03	Time: 1730
2. Relinquished By	Date	Time	2. Received By	Date	Time
3. Relinquished By	Date	Time	3. Received By	Date	Time

Comments: 3 @ 3.0°C

248/2735

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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SEVERN TRENT STL

STL Buffalo
10 Hazelwood Drive, Suite 106
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991
www.stl-inc.com

January 12, 2004

Jim Lehnen
URS Consultants
640 Ellicott Street
3rd Floor
Buffalo, NY 14203

Dear Mr. Lehnen,

STL Buffalo recently performed a suite of analyses on samples submitted by URS Consultants in relation to the Groundwater samples received during the September and October 2003 sampling event for the New York Power Authority project. The following SDGs were reviewed for the presence of the additional Pesticide analytes Endrin Ketone, gamma-Chlordane and alpha-Chlordane:

SDG			
092403	092503	092603	092903
093003	100103	100203	100303
100603	100703	100803	100903
101003	101303	101403	101503
112403			

All field samples were reviewed and found to be free of the above-mentioned Pesticides. All SDGs received after SDG 112403 have been or will be reported to include the additional analytes.

Please do not hestitate to contact me with any questions that you may have.

Sincerely,

STL BUFFALO

Amy Haag

Amy Haag

Project Manager

Leaders in Environmental Testing

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ıab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001478-1

ıab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 112401

ntrument ID: HP5973P Calibration Dates(s): 11/26/2003 11/26/2003

:eated Purge (Y/N): N Calibration Times: 12:12 14:34

:C Column: DB-624 ID: 0.25(mm)

Lab File ID: RRF1 = P2379.RR RRF4 = P2378.RR
RRF10 = P2377.RR RRF20 = P2376.RR RRF40 = P2375.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Acetone	0.034	0.031	0.038	0.033	0.036	0.0350	8.000
Benzene	1.251	1.317	1.468	1.436	1.352	1.3650	6.500
Bromodichloromethane	0.332	0.385	0.397	0.408	0.394	0.3830	7.700
Bromoform	0.188	0.228	0.232	0.253	0.251	0.2300	11.300
Bromomethane	0.073	0.083	0.098	0.089	0.079	0.0850	11.300
2-Butanone	0.047	0.051	0.057	0.055	0.057	0.0530	8.400
Methyl acetate	0.100	0.102	0.109	0.102	0.104	0.1030	3.500
Cyclohexane	0.380	0.346	0.631	0.595	0.592	0.5090	26.400
Methylcyclohexane	0.310	0.292	0.532	0.504	0.501	0.4280	27.200
Carbon Disulfide	0.800	0.803	1.074	1.019	0.993	0.9380	13.600
Carbon Tetrachloride	0.356	0.316	0.454	0.419	0.424	0.3940	14.300
Chlorobenzene	1.043	1.033	1.057	1.041	0.977	1.0300	3.000
Chloroethane	0.101	0.091	0.116	0.105	0.102	0.1030	8.700
Chloroform	0.637	0.600	0.627	0.608	0.582	0.6110	3.600
Chloromethane	0.287	0.263	0.325	0.293	0.300	0.2930	7.600
Dibromochloromethane	0.190	0.238	0.247	0.247	0.242	0.2330	10.400
1,2-Dibromo-3-chloropropane	0.054	0.067	0.067	0.073	0.073	0.0670	11.600
1,2-Dibromoethane	0.169	0.188	0.196	0.194	0.189	0.1870	5.800
1,2-Dichlorobenzene	1.165	1.293	1.344	1.370	1.299	1.2940	6.100
1,3-Dichlorobenzene	1.467	1.569	1.649	1.658	1.563	1.5810	4.900
1,4-Dichlorobenzene	1.496	1.542	1.600	1.601	1.508	1.5490	3.200
Dichlorodifluoromethane	0.254	0.194	0.350	0.325	0.288	0.2820	21.800
1,1-Dichloroethane	0.601	0.629	0.712	0.684	0.661	0.6580	6.700
1,2-Dichloroethane	0.307	0.348	0.362	0.353	0.336	0.3410	6.200
1,1-Dichloroethene	0.255	0.230	0.319	0.292	0.298	0.2790	12.800
cis-1,2-Dichloroethene	0.321	0.347	0.378	0.368	0.341	0.3510	6.400
trans-1,2-Dichloroethene	0.318	0.307	0.366	0.343	0.322	0.3310	7.000
1,2-Dichloropropane	0.312	0.352	0.373	0.361	0.356	0.3510	6.600
cis-1,3-Dichloropropene	0.355	0.431	0.478	0.480	0.468	0.4420	11.900
trans-1,3-Dichloropropene	0.332	0.416	0.444	0.448	0.436	0.4150	11.500
Ethylbenzene	1.727	1.772	2.017	1.910	1.804	1.8460	6.300
2-Hexanone	0.076	0.098	0.110	0.109	0.106	0.1000	13.900
Isopropylbenzene	3.055	3.285	3.986	3.989	3.850	3.6330	12.000
Methylene chloride	0.372	0.333	0.337	0.323	0.311	0.3350	6.900
4-Methyl-2-pentanone	0.126	0.152	0.167	0.166	0.163	0.1550	11.100
Styrene	0.949	1.115	1.192	1.131	1.049	1.0870	8.500
1,1,2,2-Tetrachloroethane	0.413	0.443	0.438	0.462	0.445	0.4400	4.000

FORM VI VOA

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ıab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001478-1

ıab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 112401

ntrument ID: HP5973P Calibration Dates(s): 11/26/2003 11/26/2003

:eated Purge (Y/N): N Calibration Times: 12:12 14:34

:C Column: DB-624 ID: 0.25(mm)

Lab File ID: RRF1 = P2379.RR RRF4 = P2378.RR
RRF10 = P2377.RR RRF20 = P2376.RR RRF40 = P2375.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Tetrachloroethene	0.313	0.299	0.377	0.359	0.346	0.3390	9.600
Toluene	0.910	0.950	1.067	1.046	0.996	0.9940	6.600
1,2,4-Trichlorobenzene	0.712	0.821	0.899	0.914	0.889	0.8470	9.800
1,1,1-Trichloroethane	0.453	0.421	0.563	0.533	0.535	0.5010	12.100
1,1,2-Trichloroethane	0.170	0.185	0.191	0.186	0.179	0.1820	4.300
Trichloroethene	0.288	0.302	0.353	0.343	0.338	0.3250	8.600
Trichlorofluoromethane	0.209	0.170	0.288	0.260	0.253	0.2360	19.700
Vinyl chloride	0.185	0.161	0.236	0.219	0.207	0.2020	14.400
Total Xylenes	0.601	0.671	0.751	0.701	0.658	0.6760	8.200
Methyl tert butyl ether	0.339	0.412	0.466	0.469	0.451	0.4270	12.700
1,1,2-Trichloro-1,2,2-trifl	0.202	0.159	0.275	0.253	0.252	0.2280	20.700
1,2-Dichloroethane-D4	0.196	0.230	0.252	0.234	0.234	0.2290	9.000
Toluene-D8	1.111	1.121	1.455	1.342	1.282	1.2620	11.700
p-Bromofluorobenzene	0.276	0.296	0.371	0.328	0.314	0.3170	11.300

Comments:

FORM VI VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006691-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 112401

ab File Id: M6250.RR Calibration Date: 11/26/2003 Time: 10:32

ntrument ID: I50M Init. Calib. Date(s): 11/25/2003 11/25/2003

eated Purge (Y/N): N Init. Calib. Times: 08:12 12:29

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0470	0.0478	0.0100	-1.700	100.00
Benzene	1.3580	1.3889	0.0100	-2.300	100.00
Bromodichloromethane	0.4540	0.4527	0.0100	0.300	100.00
Bromoform	0.2590	0.2500	0.1000	3.500	100.00
Bromomethane	0.1770	0.1930	0.0100	-9.000	100.00
2-Butanone	0.0940	0.0864	0.0100	8.100	100.00
Methyl acetate	0.1520	0.1369	0.0100	9.900	100.00
Cyclohexane	0.6850	0.6624	0.0100	3.300	100.00
Methylcyclohexane	0.5900	0.5564	0.0100	5.700	100.00
Carbon Disulfide	0.8940	0.9790	0.0100	-9.500	100.00
Carbon Tetrachloride	0.4180	0.4613	0.0100	-10.400	100.00
Chlorobenzene	1.0530	0.9846	0.3000	6.500	100.00
Chloroethane	0.2150	0.2586	0.0100	-20.300	100.00
Chloroform	0.6360	0.6639	0.0100	-4.400	20.00
Chloromethane	0.4580	0.5168	0.1000	-12.800	100.00
Dibromochloromethane	0.2660	0.2676	0.0100	-0.600	100.00
1,2-Dibromo-3-chloropropane	0.0840	0.0762	0.0100	9.300	100.00
1,2-Dibromoethane	0.2130	0.2009	0.0100	5.700	100.00
1,2-Dichlorobenzene	1.3770	1.1746	0.0100	14.700	100.00
1,3-Dichlorobenzene	1.5090	1.3404	0.0100	11.200	100.00
1,4-Dichlorobenzene	1.5830	1.3900	0.0100	12.200	100.00
Dichlorodifluoromethane	0.2380	0.3183	0.0100	-33.700	100.00
1,1-Dichloroethane	0.6160	0.6520	0.1000	-5.800	100.00
1,2-Dichloroethane	0.4130	0.4398	0.0100	-6.500	100.00
1,1-Dichloroethene	0.2510	0.2900	0.0100	-15.500	100.00
cis-1,2-Dichloroethene	0.3510	0.3527	0.0100	-0.500	100.00
trans-1,2-Dichloroethene	0.3040	0.3395	0.0100	-11.700	100.00
1,2-Dichloropropane	0.3950	0.3668	0.0100	7.100	20.00
cis-1,3-Dichloropropene	0.5550	0.5121	0.0100	7.700	100.00
trans-1,3-Dichloropropene	0.4370	0.4321	0.0100	1.100	100.00
Ethylbenzene	1.7960	1.7226	0.0100	4.100	20.00
2-Hexanone	0.1940	0.1707	0.0100	12.000	100.00
Isopropylbenzene	3.1150	3.1776	0.0100	-2.000	100.00
Methylene chloride	0.3030	0.3203	0.0100	-5.700	100.00
4-Methyl-2-pentanone	0.2620	0.2381	0.0100	9.100	100.00
Styrene	1.1320	1.0333	0.0100	8.700	100.00
1,1,2,2-Tetrachloroethane	0.5070	0.4768	0.3000	6.000	100.00
Tetrachloroethene	0.3890	0.3730	0.0100	4.100	100.00
Toluene	0.9350	0.9456	0.0100	-1.100	20.00

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006691-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 112401

ab File Id: M6250.RR Calibration Date: 11/26/2003 Time: 10:32

ntrument ID: I50M Init. Calib. Date(s): 11/25/2003 11/25/2003

eated Purge (Y/N): N Init. Calib. Times: 08:12 12:29

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.0500	0.7543	0.0100	28.200	100.00
1,1,1-Trichloroethane	0.5070	0.5384	0.0100	-6.200	100.00
1,1,2-Trichloroethane	0.1990	0.1966	0.0100	1.200	100.00
Trichloroethene	0.3710	0.3552	0.0100	4.200	100.00
Trichlorofluoromethane	0.3370	0.4250	0.0100	-26.100	100.00
Vinyl chloride	0.3570	0.4069	0.0100	-14.000	20.00
Total Xylenes	0.6840	0.6394	0.0100	6.500	100.00
Methyl tert butyl ether	0.5760	0.5184	0.0100	10.000	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2580	0.3001	0.0100	-16.300	100.00
1,2-Dichloroethane-D4	0.3450	0.3733	0.0100	-8.200	100.00
Toluene-D8	1.3010	1.4651	0.0100	-12.600	100.00
p-Bromofluorobenzene	0.4470	0.3937	0.0100	11.900	100.00

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006732-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 112401

ab File Id: P2381.RR Calibration Date: 11/26/2003 Time: 15:35

ntrument ID: HP5973P Init. Calib. Date(s): 11/26/2003 11/26/2003

eated Purge (Y/N): N Init. Calib. Times: 12:12 14:34

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0350	0.0357	0.0100	-2.000	100.00
Benzene	1.3650	1.3944	0.0100	-2.200	100.00
Bromodichloromethane	0.3830	0.3774	0.0100	1.500	100.00
Bromoform	0.2300	0.2134	0.1000	7.200	100.00
Bromomethane	0.0850	0.0802	0.0100	5.600	100.00
2-Butanone	0.0530	0.0556	0.0100	-4.900	100.00
Methyl acetate	0.1030	0.1031	0.0100	-0.100	100.00
Cyclohexane	0.5090	0.5591	0.0100	-9.800	100.00
Methylcyclohexane	0.4280	0.4827	0.0100	-12.800	100.00
Carbon Disulfide	0.9380	1.0348	0.0100	-10.300	100.00
Carbon Tetrachloride	0.3940	0.4239	0.0100	-7.600	100.00
Chlorobenzene	1.0300	1.0155	0.3000	1.400	100.00
Chloroethane	0.1030	0.1050	0.0100	-1.900	100.00
Chloroform	0.6110	0.5988	0.0100	2.000	20.00
Chloromethane	0.2930	0.2771	0.1000	5.400	100.00
Dibromochloromethane	0.2330	0.2258	0.0100	3.100	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0638	0.0100	4.800	100.00
1,2-Dibromoethane	0.1870	0.1793	0.0100	4.100	100.00
1,2-Dichlorobenzene	1.2940	1.2833	0.0100	0.800	100.00
1,3-Dichlorobenzene	1.5810	1.5743	0.0100	0.400	100.00
1,4-Dichlorobenzene	1.5490	1.5428	0.0100	0.400	100.00
Dichlorodifluoromethane	0.2820	0.2603	0.0100	7.700	100.00
1,1-Dichloroethane	0.6580	0.6794	0.1000	-3.200	100.00
1,2-Dichloroethane	0.3410	0.3378	0.0100	0.900	100.00
1,1-Dichloroethene	0.2790	0.2975	0.0100	-6.600	100.00
cis-1,2-Dichloroethene	0.3510	0.3638	0.0100	-3.600	100.00
trans-1,2-Dichloroethene	0.3310	0.3484	0.0100	-5.200	100.00
1,2-Dichloropropane	0.3510	0.3393	0.0100	3.300	20.00
cis-1,3-Dichloropropene	0.4420	0.4431	0.0100	-0.300	100.00
trans-1,3-Dichloropropene	0.4150	0.4133	0.0100	0.400	100.00
Ethylbenzene	1.8460	1.9325	0.0100	-4.700	20.00
2-Hexanone	0.1000	0.1045	0.0100	-4.500	100.00
Isopropylbenzene	3.6330	3.8624	0.0100	-6.300	100.00
Methylene chloride	0.3350	0.3280	0.0100	2.100	100.00
4-Methyl-2-pentanone	0.1550	0.1589	0.0100	-2.500	100.00
Styrene	1.0870	1.1245	0.0100	-3.400	100.00
1,1,2,2-Tetrachloroethane	0.4400	0.4141	0.3000	5.900	100.00
Tetrachloroethene	0.3390	0.3646	0.0100	-7.600	100.00
Toluene	0.9940	1.0168	0.0100	-2.300	20.00

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006714-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 112401

ab File Id: M6294.RR Calibration Date: 11/27/2003 Time: 12:07

ntrument ID: I50M Init. Calib. Date(s): 11/25/2003 11/25/2003

eated Purge (Y/N): N Init. Calib. Times: 08:12 12:29

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0470	0.0471	0.0100	-0.200	100.00
Benzene	1.3580	1.2525	0.0100	7.800	100.00
Bromodichloromethane	0.4540	0.4026	0.0100	11.300	100.00
Bromoform	0.2590	0.2037	0.1000	21.400	100.00
Bromomethane	0.1770	0.0768	0.0100	56.600	100.00
2-Butanone	0.0940	0.0809	0.0100	13.900	100.00
Methyl acetate	0.1520	0.1399	0.0100	8.000	100.00
Cyclohexane	0.6850	0.6486	0.0100	5.300	100.00
Methylcyclohexane	0.5900	0.5252	0.0100	11.000	100.00
Carbon Disulfide	0.8940	0.9077	0.0100	-1.500	100.00
Carbon Tetrachloride	0.4180	0.4060	0.0100	2.900	100.00
Chlorobenzene	1.0530	0.9226	0.3000	12.400	100.00
Chloroethane	0.2150	0.2329	0.0100	-8.300	100.00
Chloroform	0.6360	0.6007	0.0100	5.600	20.00
Chloromethane	0.4580	0.2856	0.1000	37.600	100.00
Dibromochloromethane	0.2660	0.2352	0.0100	11.600	100.00
1,2-Dibromo-3-chloropropane	0.0840	0.0669	0.0100	20.400	100.00
1,2-Dibromoethane	0.2130	0.1840	0.0100	13.600	100.00
1,2-Dichlorobenzene	1.3770	1.0398	0.0100	24.500	100.00
1,3-Dichlorobenzene	1.5090	1.2519	0.0100	17.000	100.00
1,4-Dichlorobenzene	1.5830	1.2545	0.0100	20.800	100.00
Dichlorodifluoromethane	0.2380	0.1153	0.0100	51.600	100.00
1,1-Dichloroethane	0.6160	0.5907	0.1000	4.100	100.00
1,2-Dichloroethane	0.4130	0.3947	0.0100	4.400	100.00
1,1-Dichloroethene	0.2510	0.2623	0.0100	-4.500	100.00
cis-1,2-Dichloroethene	0.3510	0.3270	0.0100	6.800	100.00
trans-1,2-Dichloroethene	0.3040	0.2987	0.0100	1.700	100.00
1,2-Dichloropropane	0.3950	0.3323	0.0100	15.900	20.00
cis-1,3-Dichloropropene	0.5550	0.4358	0.0100	21.500	100.00
trans-1,3-Dichloropropene	0.4370	0.3602	0.0100	17.600	100.00
Ethylbenzene	1.7960	1.6502	0.0100	8.100	20.00
2-Hexanone	0.1940	0.1635	0.0100	15.700	100.00
Isopropylbenzene	3.1150	2.9478	0.0100	5.400	100.00
Methylene chloride	0.3030	0.2877	0.0100	5.000	100.00
4-Methyl-2-pentanone	0.2620	0.2324	0.0100	11.300	100.00
Styrene	1.1320	0.9740	0.0100	14.000	100.00
1,1,2,2-Tetrachloroethane	0.5070	0.4410	0.3000	13.000	100.00
Tetrachloroethene	0.3890	0.3477	0.0100	10.600	100.00
Toluene	0.9350	0.9018	0.0100	3.600	20.00

FORM VII VOA

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006714-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 112401

ab File Id: M6294.RR Calibration Date: 11/27/2003 Time: 12:07

ntrument ID: I50M Init. Calib. Date(s): 11/25/2003 11/25/2003

eated Purge (Y/N): N Init. Calib. Times: 08:12 12:29

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.0500	0.6818	0.0100	35.100	100.00
1,1,1-Trichloroethane	0.5070	0.4898	0.0100	3.400	100.00
1,1,2-Trichloroethane	0.1990	0.1791	0.0100	10.000	100.00
Trichloroethene	0.3710	0.3226	0.0100	13.000	100.00
Trichlorofluoromethane	0.3370	0.3923	0.0100	-16.400	100.00
Vinyl chloride	0.3570	0.2954	0.0100	17.200	20.00
Total Xylenes	0.6840	0.5772	0.0100	15.600	100.00
Methyl tert butyl ether	0.5760	0.4870	0.0100	15.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2580	0.2870	0.0100	-11.200	100.00
1,2-Dichloroethane-D4	0.3450	0.3639	0.0100	-5.500	100.00
Toluene-D8	1.3010	1.4801	0.0100	-13.800	100.00
p-Bromofluorobenzene	0.4470	0.4010	0.0100	10.300	100.00

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Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 112401

GC Column(1): ZB-35 ID: 0.53 (mm)

	Client Sample ID	DCBP %REC #	TCMX %REC #							TOT OUT
1	Matrix Spike Blank	54	76							0
2	Method Blank	55	79							0
3	SW03-001	39	64							0
4	SW03-002	44	85							0
5	SW03-004	16 *	49							1
6	SW03-005	49	88							0
7	SW03-006	52	76							0
8	SW03-007	40	65							0
9	SW03-008	48	84							0
10	SW03-009	46	80							0
11	SW03-010	44	79							0
12	SW03-010 MS	54	90							0
13	SW03-010 SD	52	84							0
14	SW03-011	50	76							0

Also, 19% on conf. column

QC LIMITS

(DCBP) = Decachlorobiphenyl (28-132)
(TCMX) = Tetrachloro-m-xylene (36-132)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

1/12/04 JTL

FORM II - GC EXT

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U R S Corporation

ICP SERIAL DILUTIONS

SAMPLE NO.

SW03-006L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 112401

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	0.45		5.00	U	100.0		P
Calcium	35796.11		35886.20		0.3		P
Lead	6.00	U	30.00	U			P
Magnesium	9097.03		9099.05		0.0		P
Potassium	2022.01		2410.9 2500.00	U	17.5 ~~900.0~~		P
Sodium	11408.40		12815.35		12.3		P

1/6/04

Comments: _____

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DATA USABILITY SUMMARY REPORT GROUNDWATER SAMPLING EVENT SEPTEMBER-OCTOBER 2003

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999.

2.0 ANALYTICAL METHODOLOGIES

The data being evaluated are from the September 24 through October 15, 2003 sampling of 84 groundwater samples, five matrix spike/matrix spike duplicate (MS/MSD) pairs, three equipment blanks, and 44 trip blanks. The analytical laboratory that performed the analyses is Severn Trent Laboratories, located in Amherst, New York (STL-Buffalo). The samples were analyzed for the following parameters:

- target compound list (TCL) volatile organic compounds (VOCs) by Method 8260B;
- TCL semivolatile organic compounds (SVOCs) by Method 8270C;
- TCL pesticides by Method 8081A;
- TCL polychlorinated biphenyls (PCBs) by Method 8082;
- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) by Method 8290;
- arsenic, cadmium, calcium, lead, magnesium, potassium, and sodium by Method 6010B;
- mercury by Method 7470A;
- total alkalinity and bicarbonate alkalinity by Method 310.1;
- chloride and sulfate by Method 300.0;
- total hardness by Method 130.2;
- monomethyl mercury by Method 1630, modified;
- total dissolved solids (TDS) by Method 160.1;
- total organic carbon (TOC) by Method 415.1;

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- total suspended solids (TSS) by Method 160.2;
- heterotrophic plate count by Standard Method 9215B; and
- total coliform by Standard Method 9222B.

Sample aliquots were collected for monomethyl mercury analyses at all groundwater locations, however, not all the groundwater samples were analyzed for monomethyl mercury. The groundwater samples analyzed for monomethyl mercury were selected based on the results of monomethyl mercury analyses of surface water samples collected on October 7-9, 2003 as part of this investigation.

The methods referenced are from: *Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846*, Final Update III, USEPA, June 1997; *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, USEPA, Revised March 1983; *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, 1998; and Modified *Method 1630, Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS*, USEPA, Draft, August 1998.

STL-Buffalo subcontracted the following parameters: monomethyl mercury analyses to Brooks Rand, LLC, located in Seattle, WA; 2,3,7,8-TCDD analyses to STL-Knoxville, located in Knoxville, TN; and heterotrophic plate count and total coliform analyses to MTL-ACTS, Bureau Veritas Consumer Products Services, Inc., located in Buffalo, NY (ACTS).

All data were reviewed for completeness with regard to deliverables, holding times, and compliance with the referenced methods. The data were qualified following the guidelines presented in: USEPA Region II *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6, Revision 12, March 2001; USEPA Region II *Evaluation of Metals Data for the CLP Program*, SOP HW-2, Revision 11, January 1992; and USEPA Region II *SOP for SW-846 Method 8290, Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994.

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Qualifications applied to the data include "J/UJ" (estimated concentration/estimated quantitation limit), "U" (not detected), and "R" (rejected). A summary of sample qualification is presented on Table 1. The validated analytical results are presented on Tables 2 and 3. Definitions of USEPA Region II data qualifiers are presented in Attachment A. Definitions of sample concentration units are presented in Attachment B. Documentation supporting qualification of data is presented in Attachment C. Only data qualified due to nonconformance with method and/or project requirements are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were in accordance with NYSDEC Analytical Services Protocol (ASP), June 2000, Category B requirements.

4.0 HOLDING TIMES

Coolers containing some of the groundwater samples were received at STL-Buffalo at temperatures greater than 10°C. The affected coolers were delivered to the laboratory within several hours of sample collection, hence, it is believed that there was insufficient time for the ice in the sample coolers to chill the samples to 4°C ± 2°C. Using professional judgment, no data were qualified for temperature exceedances as long as the samples were analyzed within the required holding times.

The heterotrophic plate count and total coliform fraction of various samples were received at the subcontracted laboratory (ACTS) at temperatures greater than 10°C, and were analyzed past the NYSDEC ASP holding time of six hours from the validated time of sample receipt (VTSR) at the laboratory. The holding time specified in the analytical method is 24 hours from the time of collection, as long as the samples are kept below 10°C. The results for heterotrophic plate count and total coliform in the samples listed on Table 1 were qualified "J" or "UJ" due to the temperature exceedance and the ASP holding time exceedance. It should be stated that the affected samples were not necessarily those received at STL-Buffalo at temperatures greater than 10°C, as previously noted.

Sample GW03-013A-P1 required re-extraction for pesticide analysis because of surrogate recovery outliers in the initial analysis. The re-extraction of this sample was performed two days past the USEPA Region II technical holding time of seven days from collection. All surrogate recoveries were

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within quality control limits in the reanalysis, however all pesticide results for this sample (all were non-detect) were qualified "UJ" for the holding time exceedance.

Samples GW03-008A-P2, GW03-008A-P3, GW03-008B-P6, and GW03-013B-P4 required re-extraction for PCB analysis because of surrogate recovery outliers in the initial analyses. The re-extractions of these samples were performed one to two days past the USEPA Region II technical holding time of seven days from collection. All surrogate recoveries were within quality control limits in the reanalysis, however all PCB results for this sample (all were non-detect) were qualified "UJ" for the holding time exceedance.

The undiluted chloride and sulfate analyses of equipment blank EB1-10/10/03 were initially performed within the method holding time of 28 days from collection, but the laboratory suspected an instrument error during the analysis. Due to a laboratory oversight, the blank was not reanalyzed within holding time. At the request of URS, the laboratory reanalyzed the sample 17 days past the method holding time. The non-detect results for chloride and sulfate were qualified "UJ."

5.0 NONCONFORMANCES

The following quality control (QC) non-conformances were noted during the data review:

- Miscellaneous

  The subcontracted laboratory (Brooks Rand) performing the monomethyl mercury analyses noted that the cap on the container for sample GW03-009B-P5 was cracked during sample log-in. Samples for monomethyl mercury analysis are collected with zero headspace and each container is double bagged in ziplock bags. The contents of the container for sample GW03-009B-P5 leaked into the inner "clean" bag surrounding the sample. The laboratory transferred the remaining sample volume into a clean bottle, which was sufficient to perform the analysis. The non-detect result for monomethyl mercury in this sample was qualified "UJ" due to potential volatilization and loss when the container broke and the remaining volume transferred to a new container.

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The heterotrophic plate count results for samples GW03-006A-P5, GW03-010B-P6, GW03-013B-P4, GW03-014B-P6, GW03-015B-P4, and GW03-015B-P6 were outside the countable range specified in the method. Because of the short holding times for these analyses, reanalysis of the samples was not possible. The results for heterotrophic plate count in the samples were qualified "J".

- Initial and Continuing Calibrations

The average relative response factors (RRF) for the VOCs acetone, 2-butanone, and/or 1,2-dibromo-3-chloropropane were below the USEPA Region II QC limit of 0.05 in one or more initial calibrations (ICAL). The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "R" and the detected results were qualified "J."

The RRFs for the VOCs acetone, methyl acetate and/or 2-butanone were below the USEPA Region II QC limit of 0.05 in one or more continuing calibration (CCAL) standards. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "R."

The percent difference (%D) between the ICAL average RRF and the RRF in one or more of the CCAL standards exceeded the USEPA Region II QC limit of 25% for the VOCs bromoform, bromomethane, carbon disulfide, chloroethane, 1,2-dichloroethane, trichlorofluoromethane, chloromethane, 2-hexanone, methyl acetate, cyclohexane, 1,1,2-trichloro-1,2,2-trifluoroethane, 1,2,4-trichlorobenzene, methylcyclohexane, and/or 4-methyl-2-pentanone. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "J" or "UJ."

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards exceeded the USEPA Region II QC limit of 25% for the SVOCs acetophenone, biphenyl, 2,4-dinitrophenol, benzaldehyde, caprolactam,

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hexachlorocyclopentadiene, and/or 4,6-dinitro-2-methylphenol. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "UJ."

The %D between the actual and measured concentrations of the pesticide methoxychlor exceeded the USEPA Region II QC limit of 25% in one or more of the CCAL standards. The non-detect results for methoxychlor in the associated samples listed on Table 1 were qualified "UJ."

The percent recovery (%R) for the metal sodium exceeded the USEPA Region II QC limit of 110% in the continuing calibration verification (CCV) standard associated with samples GW03-001A-P1 and GW03-017A-P1. The results for sodium in these samples were qualified "J."

The raw data indicated that there was an equipment failure during the TOC analysis sequence on 10/11/03. Consequently, there was no sequence-ending CCV standard. The equipment problem was corrected, however, the analyst failed to reanalyze the samples injected after the last acceptable CCV standard. In addition, the subsequent CCV standard %Rs were below the laboratory control limit of 90%. The results for TOC in the associated samples listed on Table 1 were qualified "J" or "UJ" for the CCV nonconformance.

The %R for alkalinity (total and bicarbonate) was below the lower QC limit of 90% in one or more of the CCV standards. The detected results for alkalinity in the associated samples listed on Table 1 were qualified "J" and the non-detect results qualified "UJ."

- Blank Contamination

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The VOCs ethylbenzene and total xylene were detected in equipment rinsate blank EB1-10/14/03. The results for these compounds in the associated samples listed on Table 1 were qualified "U" because the concentrations detected in the samples were less than five times the concentration detected in the equipment rinsate blank.

- Surrogate Recoveries

The pesticide analysis of samples GW03-013A-P1 and GW03-013C-P7 exhibited surrogate recoveries below QC limits and less than 10%. Sample GW03-013A-P1 was re-extracted past the USEPA Region II technical holding time of seven days from collection, and reanalyzed with acceptable surrogate recovery. The results from the reanalysis (all were non-detect) are reported on Table 2 and qualified "UJ" for the holding time exceedance, as previously discussed in Section 4.0. Due to lab oversight, sample GW03-013C-P7 was not re-extracted. The results for sample GW03-013C-P7 (all were non-detect) were qualified "R" due to surrogate recoveries below 10%.

The pesticide analysis of sample GW03-012A-P3 exhibited surrogate recoveries below QC limits, but greater than 10%. The laboratory reanalyzed the extract with similar results, but did not re-extract the sample. The results for sample GW03-012A-P3 (all were non-detect) were qualified "UJ" for the surrogate outliers, except where qualified "R" as discussed in subsequent sections of this report.

The PCB analysis of samples GW03-008A-P2, GW03-008A-P3, GW03-008B-P6, and GW03-013B-P4 exhibited surrogate recoveries below QC limits. It was noted in the PCB extraction log that the equipment used to add surrogates to the samples was not functioning properly. The samples were re-extracted past the USEPA Region II technical holding time of seven days from collection, and reanalyzed with acceptable surrogate recovery. The results from the reanalyses (all were non-detect) are reported on Table 2 and qualified "UJ" for the holding time exceedance, as previously discussed in Section 4.0.

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- Internal Standard Recovery

  The TCDD analysis of sample GW03-012A-P3 exhibited a recovery below the lower QC limit but greater than 10% for internal standard (IS) $^{13}C_{12}$-2,3,7,8-TCDD. The 2,3,7,8-TCDD result for this sample was qualified "UJ" for the IS outlier.

- Matrix Spike /Matrix Duplicate Results

  The recovery of potassium in the MS analysis of sample GW03-011A-P2 exceeded the upper QC limit of 125%. The results for potassium in the associated samples were listed on Table 1 qualified "J."

  The recovery of TOC in the MS analysis of sample GW03-016A-P2 exceeded the upper QC limit of 131%. The recovery of TOC in the MS analysis of sample GW03-005A-P2 was below the lower QC limit of 54%. The results for TOC in the associated samples listed on Table 1 were qualified "J."

  The recovery of chloride and sulfate in the MS analysis of sample GW03-013A-P2 exceeded the upper QC limits of 114% and 125%, respectively. The results for chloride and sulfate in the associated samples listed on Table 1 were qualified "J."

  The relative percent difference (RPD) between the heterotrophic plate count concentration in sample GW03-011C-P7 and the concentration in the matrix duplicate analysis of this sample for exceeded the 50%. Using professional judgment, the result for heterotrophic plate count in this sample was qualified "J." Because of the inherent variability with these analyses and the dynamic nature of the samples with regard to biological activity, the results for other samples were not qualified based on the matrix duplicate results.

- Analyte Identification

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The laboratory reported non-detect results for alpha-BHC and beta-BHC in samples GW03-014B-P6, GW03-017B-P4, and GW03-017C-P8 because the concentrations of these compounds identified in the samples were below the reporting limits (RL). However, the laboratory was required to report all detections greater than the method detection limit (MDL). The presence of the compounds in these samples was confirmed by the second chromatographic column used for analyses, and therefore the detected concentrations should have been reported. The results for alpha-BHC and beta-BHC in samples GW03-014B-P6, GW03-017B-P4, and GW03-017C-P8 were manually corrected to reflect the detected results, and these results are reported on Table 2.

The %D between the concentrations of alpha-BHC, beta-BHC, and/or 4,4'-DDE detected on the primary chromatographic column and those detected on the confirmation column exceeded 50% in the samples listed on Table 1. Since the reported sample concentrations were less than the RL, the results were raised to the RL and qualified "U."

- Pesticide and PCB Cleanup

Several samples required cleanup to remove sulfur, which interferes with the chromatographic resolution of pesticides during analysis. The cleanup involved treatment of the sample extracts with copper, per USEPA Method 3660B. However, the laboratory did not perform this cleanup on all associated quality control samples (e.g., LCSs and method blanks). Three MS/MSD pairs were treated with copper (i.e., the MS/MSD analyses on samples GW03-006A-P5, GW03-011A-P2, and GW03-012B-P6). Endrin aldehyde was not recovered (i.e., 0% recovery) in the MS/MSD analyses of samples GW03-006A-P5 and GW03-011A-P2. The recoveries in the MS/MSD analyses of sample GW03-012B-P6 were within QC limits, but were low in relation to the recoveries of all other spiked pesticides. It is suspected that endrin aldehyde was lost during the copper treatment. Using professional judgement, the non-detect result for endrin aldehyde in sample GW03-012B-P6 was qualified "UJ."

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The non-detect results for endrin aldehyde in the remaining samples listed on Table 1 that were copper treated were qualified "R."

- Serial Dilutions

The %D between the concentration of sodium in the undiluted analyses of samples GW03-009A-P3 and GW03-011C-P7 and the concentration in the serial dilution analyses of the samples exceeded 10%. The results for sodium in the associated samples listed on Table 1 were qualified "J."

The %D between the concentration of calcium in the undiluted analysis of sample GW03-012A-P3 and the concentration in the serial dilution analysis of the sample exceeded 10%. The results for calcium in the associated samples listed on Table 1 were qualified "J."

The %D between the concentration of magnesium in the undiluted analysis of sample GW03-010A-P2 and the concentration in the serial dilution analysis of the sample exceeded 10%. The results for magnesium in the associated samples listed on Table 1 were qualified "J."

The %D between the concentration of potassium in the undiluted analyses of samples GW03-003A-P2, GW03-007B-P4, GW03-008B-P6, GW03-009A-P3, GW03-011A-P2, and GW03-012A-P2 and the concentration in the serial dilution analyses of the samples exceeded 10%. The results for potassium in the associated samples listed on Table 1 were qualified "J."

- Contract Required Detection Limit (CRDL) Standards

Several CRDL standard recoveries were outside the USEPA Region II control limit of 80-120% for arsenic, lead, and/or mercury. Non-detect results for arsenic, lead, and/or mercury in the associated samples listed on Table 1 were qualified "UJ" and

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detected concentrations less than two times the CRDL standard concentration were qualified "J."

6.0 SAMPLE RESULTS AND REPORTING

All quantitation limits were reported in accordance with method requirements and were adjusted for sample size and dilution factors. The VOC fraction of samples GW03-005A-P2, GW03-012A-P3, and GW03-014A-P3 was diluted prior to analysis due to elevated concentrations of target compounds. The VOC fraction of sample GW03-015A-P2 was diluted prior to analysis because the sample foamed excessively during the sample introduction (i.e., purging) process. The dilution was necessary to avoid damage to the instrument.

Sample results qualified "D" were reported from secondary dilution analyses. Several organic sample results were qualified "J" by the laboratory indicating estimated concentrations below the quantitation limits. Monomethyl mercury results for several samples were qualified "B" by the laboratory indicating estimated concentrations below the quantitation limit.

The final results as listed on the reporting forms (i.e., Form 1) were in agreement with the raw data, and no transcription/calculation errors were detected except for the following:

- The laboratory reported results for the VOC vinyl acetate and the SVOCs benzoic acid and benzyl alcohol. These compounds are not part of the TCL, therefore they are not included on Tables 2 and 3. The laboratory did not report results for the TCL SVOC carbazole on the Form 1. However, information for carbazole was provided in the raw data, and the laboratory verified that carbazole was not detected in any of the samples. Therefore, the results for carbazole are included on Tables 2 and 3, although they do not appear on the laboratory reporting forms.
- The laboratory did not report results for the pesticide endrin ketone on the Form 1. In addition, results were reported for technical chlordane, as opposed to the requested TCL parameters alpha-chlordane and gamma-chlordane.

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However, information for these compounds were provided in the raw data, and the laboratory verified that they were not detected in any of the samples. Therefore, the results for endrin ketone, alpha-chlordane, and gamma-chlordane are included on Tables 2 and 3, although they do not appear on the laboratory reporting forms. Technical chlordane is not included on Tables 2 and 3.

- Several samples required dilution for sodium because the undiluted analysis exceeded the linear range of the instrument. For samples GW03-014A-P1, GW03-014A-P2, and GW03-016A-P3, the laboratory also reported results for potassium from the dilution analyses because of suspected matrix interference. However, the results for potassium in the diluted analyses of these samples were less than the RL, therefore the lab reported non-detect results at an elevated RL. Using professional judgment, the Form 1s for samples GW03-014A-P1, GW03-014A-P2, and GW03-016A-P3 were manually revised to include the potassium results from the undiluted analyses of the samples, and these results are reported on Table 2.
- Due to laboratory oversight, sample GW03-014A-P2 was not analyzed for mercury.
- The laboratory reported a non-detect result for hardness in sample GW03-011C-P7. This result is inconsistent with the calculated hardness based on the sample concentrations of calcium and magnesium. The laboratory did not have sufficient volume to reanalyze the sample, therefore the Form 1 was manually changed to the reflect the calculated hardness of 513 milligrams per liter (mg/L), and this result reported on Table 2.
- ACTS reported heterotrophic plate count results in colony forming units per milliliter (CFU/mL). The results transcribed by STL to the STL Form 1s were erroneously reported as colony forming units per gram (CFU/G). The STL Form 1s have been manually corrected to contain the correct units of CFU/mL.

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- Sample results for heterotrophic plate count outside the countable range specified in the method were qualified as estimated by ACTS, as discussed in Section 5.0. The results transcribed by STL to the STL Form 1s did not include an estimated flag ("J"). The STL Form 1s for samples GW03-006A-P5, GW03-010B-P6, GW03-013B-P4, GW03-014B-P6, GW03-015B-P4, and GW03-015B-P6 have been manually corrected to include a "J" qualifier.
- ACTS reported detected heterotrophic plate count results for samples GW03-005A-P2, GW03-010B-P5, GW03-013B-P5, GW03-017B-P5, and GW03-017B-P6. The results transcribed by STL to the STL Form 1s were erroneously reported as non-detect ("U"). The "U" was crossed off the STL Form 1s for these samples.
- ACTS reported a non-detect heterotrophic plate count result for sample GW03-014A-P3. The result transcribed by STL to the STL Form 1 was erroneously reported as detected. The "U" was manually added to the STL Form 1 for this sample.
- ACTS reported total coliform results in colonies per 100 milliliters (C/100mL). The results transcribed by STL to the STL Form 1s were erroneously reported as colony forming units per 0.1 liter (CFU/0.1L). The STL Form 1s have been manually corrected to colonies per 0.1L (C/0.1L).

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified "J/UJ"(estimated/estimated quantitation limit) are considered conditionally usable. Those results qualified "U" are considered not detected. Those results qualified "R" (rejected) are unusable. All other sample results are usable as reported.

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TABLE 1
SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-001A-P2, GW03-004A-P1, GW03-004A-P2, GW03-005A-P1, GW03-005A-P2, GW03-006B-P4, GW03-007A-P3, GW03-008A-P1, GW03-008A-P2, GW03-008A-P3, GW03-008B-P5, GW03-008B-P4, GW03-008B-P6, GW03-009A-P1, GW03-009A-P3, GW03-009B-P4, GW03-009B-P5, GW03-010B-P5, GW03-010B-P6, GW03-011A-P1, GW03-012A-P2, GW03-012B-P5, GW03-013A-P1, GW03-013B-P4, GW03-013B-P5, GW03-013C-P7, GW03-014B-P4, GW03-014B-P5, GW03-014B-P6, GW03-014C-P7, GW03-015A-P1, GW03-015B-P4, GW03-015B-P5, GW03-015B-P6, GW03-016A-P1, GW03-016A-P2, GW03-016A-P3, GW03-016B-P4, GW03-016B-P5, GW03-016B-P6, EB1-10/3/03, EB1-10/10/03, TB1-9/29/03, TB2-9/29/03, TB3-9/29/03, TB3-9/30/03, TB4-9/29/03, TB4-9/30/03, TB5-9/29/03, TB1-10/3/03, TB2-10/3/03, TB1-10/6/03, TB2-10/6/03, TB3-10/6/03, TB4-10/6/03, TB5-10/6/03, TB1-10/7/03, TB1-10/8/03, TB2-10/8/03, TB3-10/8/03, TB5-10/8/03, TB6-10/8/03, TB2-10/9/03, TB1-10/10/03, and TB1-10/13/03	VOC	ICAL RRF <0.05 for acetone and 1,2-dibromo-3-chloropropane.	Qualify non-detect results “R” and detected results “J.”

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-001A-P1, GW03-002A-P1, GW03-003A-P1, GW03-003A-P2, GW03-006A-P1, GW03-006A-P5, GW03-006B-P2, GW03-007A-P1, GW03-007A-P2, GW03-007B-P4, GW03-009A-P2, GW03-009B-P6, GW03-010A-P1, GW03-010A-P2, GW03-010A-P3, GW03-010B-P4, GW03-010C-P7, GW03-011A-P2, GW03-011A-P3, GW03-011B-P4, GW03-011C-P7, GW03-011C-P8, GW03-012B-P6, GW03-013A-P2, GW03-013A-P3, GW03-014A-P1, GW03-014A-P2, GW03-014A-P3, GW03-014A-P3, GW03-015A-P2, GW03-015C-P7, GW03-016C-P7, GW03-016C-P8, GW03-017A-P1, GW03-017A-P2, GW03-017B-P4, GW03-017B-P5, GW03-017B-P6, GW03-017C-P7, GW03-017C-P8, GW03-017C-P9, EB1-10/14/03, TB-09/24/03, TB2-09/24/03, TB1-9-25-03, TB2-9-25-03, TB1-9-26-03, TB2-9-26-03, TB-9/30/03, TB-10/1/03, TB2-10-1-03, TB1-10-2-03, TB2-10-2-03, TB3-10-2-03, TB4-10-2-03, TB4-10/7/03, TB3-10/9/03, TB4-10/9/03, TB2-10/13/03, TB3-10/13/03, and TB1-10/14/03	VOC	ICAL RRF <0.05 for acetone and 2-butanone.	Qualify non-detect results “R” and detected results “J.”
GW03-003A-P1, GW03-003A-P2, GW03-010B-P4, GW03-010C-P7, GW03-011B-P4, GW03-011C-P7, GW03-011C-P8, TB2-9-25-03, and TB1-9-26-03	VOC	CCAL >25 %D for 1,2-dichloroethane, trichlorofluoromethane, and 1,1,2-trichloro-1,2,2-trifluoroethane.	Qualify non-detect results “UJ.”

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-017B-P5, GW03-017B-P6, and TB1-9-25-03	VOC	CCAL >25 %D for 2-hexanone and 4-methyl-2-pentanone.	Qualify non-detect results "UJ."
GW03-006A-P1, GW03-006A-P5, GW03-006B-P2, GW03-007A-P1, GW03-007B-P4, TB-10/1/03, and TB2-10-1-03	VOC	CCAL >25 %D for chloromethane and methyl acetate.	Qualify non-detect results "UJ."
GW03-017B-P5, GW03-017B-P6, and TB1-9-25-03	VOC	CCAL RRF <0.05 for methyl acetate.	Qualify non-detect results "R."
TB4-9/30/03	VOC	CCAL RRF <0.05 for 2-butanone.	Qualify non-detect result "R."
GW03-007B-P5, GW03-012A-P3, GW03-013B-P6, GW03-015A-P3, TB1-10/15/03, and TB2-10/14/03	VOC	CCAL RRF <0.05 for acetone.	Qualify non-detect results "R" and detected results "J."
GW03-017B-P4, GW03-017C-P7, and TB1-09/24/03	VOC	CCAL >25 %D for 2-hexanone.	Qualify non-detect results "UJ."
GW03-001A-P2, GW03-006B-P4, GW03-007A-P3, GW03-008A-P1, GW03-008B-P4, GW03-008B-P5, GW03-009A-P1, GW03-009B-P5, GW03-014B-P6, GW03-015A-P1, GW03-015B-P4, GW03-016A-P2, GW03-016A-P3, GW03-016B-P4, GW03-016B-P5, GW03-016B-P6, EB1-10/3/03, TB1-10/3/03, TB2-10/3/03, TB3-9/29/03, TB3-9/30/03, TB4-9/29/03, TB4-9/30/03, TB5-9/29/03, and TB1-10/7/03	VOC	CCAL >25 %D for 1,2,4-trichlorobenzene.	Qualify non-detect results "UJ."
GW03-007A-P2, TB1-10/2/03, and TB2-10/2/03	VOC	CCAL >25 %D for trichlorofluoromethane.	Qualify non-detect results "UJ."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-001A-P1, GW03-002A-P1, GW03-015C-P7, GW03-017A-P1, TB3-10/2/03, and TB4-10/2/03	VOC	CCAL >25 %D for 1,2-dichloroethane and trichlorofluoromethane.	Qualify non-detect results "UJ."
GW03-014A-P3	VOC	CCAL >25 %D for methyl acetate.	Qualify non-detect result "UJ."
GW03-014C-P7, GW03-015B-P5, TB1-10/6/03, and TB2-10/6/03	VOC	CCAL >25 %D for bromoform, bromomethane, and 1,2,4-trichlorobenzene.	Qualify non-detect results "UJ."
GW03-005A-P1, GW03-014B-P4, GW03-014B-P5, GW03-015B-P6, TB3-10/6/03, TB4-10/6/03, and TB5-10/6/03,	VOC	CCAL >25 %D for 1,2,4-trichlorobenzene.	Qualify non-detect results "UJ."
EB1-10/10/023, GW03-012A-P2, and TB1-10/10/03	VOC	CCAL >25 %D for bromomethane and carbon disulfide.	Qualify non-detect results "UJ" and detected results "J."
GW03-005A-P2, GW03-10B-P5, GW03-013B-P5, TB1-10/8/03, TB2-10/8/03, and TB3-10/8/03	VOC	CCAL >25 %D for bromomethane and 1,1,2-trichloro-1,2,2-trifluoroethane	Qualify non-detect results "UJ."
GW03-008A-P2, GW03-008A-P3, GW03-008B-P6, GW03-009A-P3, GW03-010B-P6, GW03-011A-P1, GW03-012B-P5, GW03-013A-P1, GW03-013B-P4, GW03-013C-P7, TB1-10/13/03, TB5-10/8/03, TB6-10/8/03, and TB2-10/9/03	VOC	CCAL >25 %D for 1,1,2-trichloro-1,2,2-trifluoroethane.	Qualify non-detect results "UJ."
GW03-009A-P2, GW03-012B-P6, TB3-10/9/03, and TB4-10/9/03	VOC	CCAL >25 %D for chloroethane.	Qualify non-detect results "UJ."
GW03-011A-P3, GW03-011A-P2, GW03-013A-P2, GW03-013A-P3, and GW03-014A-P1	VOC	CCAL >25 %D for cyclohexane, carbon disulfide, chloroethane, trichlorofluoromethane, 1,1,2-trichloro-1,2,2,-trifluoromethane.	Qualify detected results "J" and non-detect results "UJ."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-012A-P3	VOC	CCAL >25 %D for cyclohexane, carbon disulfide, methylcyclohexane, and 1,1,2-trichloro-1,2,2,-trifluoromethane.	Qualify non-detect results "UJ."
GW03-011A-P3, GW03-013A-P3, GW03-014A-P1, and GW03-014A-P2	VOC	Ethylbenzene and total xylenes detected in equipment blank.	Raised result to the reporting limit (RL) and qualify as non-detect "U".
GW03-008A-P1, GW03-008B-P5, GW03-017B-P5, and GW03-017B-P6	SVOC	CCAL >25 %D for 2,4-dinitrophenol.	Qualify non-detect results "UJ."
GW03-005A-P1, GW03-014A-P3, GW03-014B-P4, GW03-014B-P5, GW03-014B-P6, GW03-014C-P7, GW03-015B-P5, and GW03-015B-P6	SVOC	CCAL >25 %D for caprolactam and benzaldehyde.	Qualify non-detect results "UJ."
GW03-003A-P1, GW03-003A-P2, GW03-010B-P4, GW03-010C-P7, GW03-011C-P7, GW03-011C-P8, and GW03-011B-P4	SVOC	CCAL >25 %D for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol.	Qualify non-detect results "UJ."
GW03-016A-P2, GW03-016B-P5, and GW03-016B-P6	SVOC	CCAL >25 %D for 2,4-dinitrophenol.	Qualify non-detect results "UJ."
GW03-007A-P1	SVOC	CCAL >25 %D for 2,4-dinitrophenol and hexachlorocyclopentadiene	Qualify non-detect results "UJ."
GW03-007B-P5, GW03-012A-P3, GW03-013B-P6, and GW03-013C-P7	SVOC	CCAL >25 %D for acetophenone, biphenyl, and benzaldehyde.	Qualify non-detect results "UJ."
GW03-013A-P1	Pesticides	Technical holding time exceedance for sample extraction.	Qualify non-detect results "UJ."
GW03-012A-P3	Pesticides	Surrogate recoveries below lower QC limit.	Qualify non-detect results "UJ," except where qualified "R."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-013C-P7	Pesticides	Surrogate recovery less than 10%.	Qualify non-detect results "R."
GW03-003A-P1, GW03-003A-P2, GW03-008B-P4, GW03-009A-P1, GW03-009B-P5, GW03-010B-P4, GW03-010C-P7, GWO3-011B-P4, GW03-011C-P7, GW03-011C-P8, GW03-016A-P3, and GW03-016B-P4	Pesticides	CCAL >25 %D for methoxychlor.	Qualify non-detect results "UJ."
GW03-005A-P1, GW03-006A-P5, GW03-006B-P2, GW03-008A-P3, GW03-009A-P2, GW03-009A-P3, GW03-010A-P1, GW03-010A-P2, GW03-010B-P6, GW03-011A-P1, GW03-011A-P2, GW03-011A-P3, GW03-012A-P3, GW03-013B-P5, GW03-014A-P1, GW03-014A-P3, GW03-015A-P2, GW03-016A-P3, and GW03-016B-P5	Pesticides	Recovery of endrin aldehyde 0% in copper-treated MS/MSD analyses.	Qualify non-detect results "R."
GW03-012B-P6	Pesticides	Recovery of endrin aldehyde below lower QC limit in copper-treated MS/MSD analyses.	Qualify non-detect result "UJ."
GW03-004A-P2	Pesticide	%D between column concentrations > 50% for 4,4'-DDE.	Qualify result "U" at the RL.
GW03-016A-P1	Pesticide	%D between column concentrations > 50% for alpha-BHC.	Qualify result "U" at the RL.
GW03-016A-P3 and GW03-016B-P4	Pesticide	%D between column concentrations > 50% for beta-BHC.	Qualify result "U" at the RL.

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-008A-P2, GW03-008A-P3, GW03-008B-P6, and GW03-013B-P4	PCBs	Technical holding time exceedance for sample extraction.	Qualify non-detect results "UJ."
GW03-012A-P3	TCDD	Internal standard recovery below lower QC limit	Qualify non-detect result "UJ."
GW03-001A-P1 and GW03-017A-P1	Metals	CCV recovery > 110% for sodium.	Qualify detected results "J."
GW03-009A-P3, GW03-011B-P4, GW03-011C-P7, and GW03-011C-P8	Metals	Serial dilution %D >10% for sodium.	Qualify detected results >10X IDL "J."
GW03-003A-P1, GW03-003A-P2, GW03-005A-P2, GW03-007A-P1, GW03-007B-P4, GW03-008A-P2, GW03-008A-P3, GW03-008B-P6, GW03-009A-P3, GW03-010A-P1, GW03-010B-P4, GW03-010B-P5, GW03-010B-P6, GW03-010C-P7, GW03-011A-P2, GW03-012A-P2, GW03-012B-P5, GW03-013A-P1, GW03-013B-P4, GW03-013B-P5, GW03-013C-P7, and GW03-014A-P2	Metals	Serial dilution %D >10% for potassium.	Qualify detected results >10X IDL "J."
GW03-012A-P3 and GW03-013B-P6	Metals	Serial dilution %D >10% for calcium.	Qualify detected results >10X IDL "J."
GW03-010A-P2, GW03-011A-P3, GW03-013A-P3, and GW03-015A-P2	Metals	Serial dilution %D >10% for magnesium.	Qualify detected results >10X IDL "J."
GW03-009A-P2, GW03-010A-P1, GW03-012A-P2, GW03—12A-P3, GW03-012B-P6, GW03-011A-P2, GW03-013A-P2, GW03-013B-P6, GW03-014A-P1, GW03-014A-P2, EB1-10/10/03, and EB1-10/14/03	Metals	Arsenic recovery < 80% in the CRDL standard.	Qualify detected results "J" and non-detect results "UJ."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-007B-P5, GW03-011A-P2, GW03-013A-P2, GW03-013B-P6, GW03-014A-P2, GW03-017A-P2, GW03-017C-P8, and EB1-10/14/03	Metals	Lead recovery < 80% in the CRDL standard.	Qualify detected results "J" and non-detect results "UJ."
GW03-012A-P2	Metals	Lead recovery > 120% in the CRDL standard.	Qualify detected result "J."
GW03-005A-P2, GW03-007B-P5, GW03-008A-P2, GW03-008A-P3, GW03-008B-P6, GW03-010B-P5, GW03-010B-P6, GW03-011A-P1, GW03-011A-P2, GW03-012B-P5, GW03-013A-P1, GW03-013A-P2, GW03-013B-P4, GW03-013B-P5, GW03-013C-P7, GW03-014A-P1, GW03-014A-P3, GW03-017B-P4, GW03-017C-P7, and EB1-10/14/03	Metals	Mercury recovery < 80% in the CRDL standard.	Qualify non-detect results "UJ."
GW03-011A-P2, GW03-013A-P2, and GW03-014A-P2	Metals	MS recovery > 125% for potassium.	Qualify detected results "J."
GW03-009B-P5	Monomethyl mercury	Potential loss of analyte due to broken container cap.	Qualify non-detect result "UJ."
GW03-004A-P1, GW03-004A-P2, GW03-008B-P4, GW03-009B-P4, GW03-009B-P5, GW03-016A-P1, GW03-016A-P3, and GW03-016B-P4	TOC	CCV nonconformance due to instrument failure.	Qualify detected results "J" and non-detect results "UJ."
GW03-008A-P1, GW03-008B-P5, and GW03-009B-P6	TOC	MS recovery > QC limit.	Qualify detected results "J."
GW03-005A-P2 and GW03-010B-P5	TOC	MS recovery < QC limit.	Qualify detected results "J."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-005A-P2, GW03-008A-P2, GW03-008A-P3, GW03-008B-P6, GW03-010B-P6, GW03-011A-P1, GW03-012A-P2, GW03-012B-P5, GW03-013A-P1, GW03-013B-P4, GW03-013C-P7, and EB1-10/10/03	Total and bicarbonate alkalinity	CCV recovery < 90%.	Qualify detected results "J" and non-detect results "UJ."
EB1-10/10/03	Chloride and sulfate	Analysis holding time exceedance.	Qualify non-detect results "UJ."
GW03-010A-P2, GW03-011A-P2, GW03-011A-P3, GW03-013A-P2, GW03-013A-P3, GW03-014A-P1, and GW03-015A-P2	Chloride and sulfate	MS recovery > QC limit	Qualify detected results "J."
GW03-008A-P2, GW03-008A-P3, GW03-009A-P2, GW03-010A-P1, GW03-012A-P3, GW03-012B-P6, GW03-013A-P1, GW03-013B-P4, and GW03-013C-P7	Heterotrophic plate count and total coliform	Temperature and/or analysis holding time exceedance.	Qualify detected results "J" and non-detect results "UJ."
GW03-011C-P7	Heterotrophic plate count	RPD between sample and matrix duplicate concentrations > 50%.	Qualify detected results "J."
GW03-006A-P5, GW03-010B-P6, GW03-014B-P6, GW03-015B-P4, and GW03-015B-P6	Heterotrophic plate count	Results outside the countable range specified in the method.	Qualify detected results "J."

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Sample ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	10/07/03	10/08/03	10/02/03	09/26/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 UJ	NA	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	R	NA	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 U	NA	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	NA	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	NA	5.0 U	5.0 U
Acetone	UG/L	R	34 J	NA	R	R
Benzene	UG/L	0.48 J	1.0 U	NA	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Sample ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	10/07/03	10/08/03	10/02/03	09/26/03
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Cyclohexane	UG/L	2.1	1.0 U	NA	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	NA	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Methylcyclohexane	UG/L	0.96 J	1.0 U	NA	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Total Xylenes	UG/L	0.58 J	3.0 U	NA	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Sample ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	10/07/03	10/08/03	10/02/03	09/26/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 U	NA	1.0 UJ	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	NA	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	NA	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	NA	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	NA	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	NA	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	NA	48 U	50 U	51 UJ
2,4-Dinitrotoluene	UG/L	10 U	NA	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	NA	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	NA	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	NA	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	NA	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	NA	10 U	10 U	10 U
2-Nitroaniline	UG/L	50 U	NA	48 U	50 U	51 U
2-Nitrophenol	UG/L	10 U	NA	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	NA	19 U	20 U	20 U
3-Nitroaniline	UG/L	50 U	NA	48 U	50 U	51 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	NA	48 U	50 U	51 UJ
4-Bromophenyl-phenylether	UG/L	10 U	NA	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	NA	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	NA	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Sample ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	10/07/03	10/08/03	10/02/03	09/26/03
Parameter	**Units**					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	NA	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	NA	10 U	10 U	10 U
4-Nitroaniline	UG/L	50 U	NA	48 U	50 U	51 U
4-Nitrophenol	UG/L	50 U	NA	48 U	50 U	51 U
Acenaphthene	UG/L	10 U	NA	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	NA	10 U	10 U	10 U
Acetophenone	UG/L	10 U	NA	10 U	10 U	10 U
Anthracene	UG/L	10 U	NA	10 U	10 U	10 U
Atrazine	UG/L	10 U	NA	10 U	10 U	10 U
Benzaldehyde	UG/L	50 U	NA	48 U	50 U	51 U
Benzo(a)anthracene	UG/L	10 U	NA	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	NA	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	NA	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	NA	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	NA	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	NA	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	NA	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	NA	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	NA	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Caprolactam	UG/L	10 U	NA	10 U	10 U	10 U
Carbazole	UG/L	10 U	NA	10 U	10 U	10 U
Chrysene	UG/L	10 U	NA	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Sample ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	10/07/03	10/08/03	10/02/03	09/26/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	NA	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	NA	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	NA	10 U	10 U	10 U
Fluorene	UG/L	10 U	NA	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	NA	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	NA	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	NA	23 U	24 U	24 U
Hexachloroethane	UG/L	10 U	NA	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	NA	10 U	10 U	10 U
Isophorone	UG/L	10 U	NA	10 U	10 U	10 U
Naphthalene	UG/L	10 U	NA	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	NA	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	NA	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	NA	10 U	10 U	10 U
Pentachlorophenol	UG/L	50 U	NA	48 U	50 U	51 U
Phenanthrene	UG/L	10 U	NA	10 U	10 U	10 U
Phenol	UG/L	10 U	NA	10 U	10 U	10 U
Pyrene	UG/L	10 U	NA	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Sample ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	10/07/03	10/08/03	10/02/03	09/26/03
Parameter	**Units**					
Pesticides						
4,4-DDD	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	NA	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	NA	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 UJ
Toxaphene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.48 U	NA	0.52 U	0.50 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Sample ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	10/07/03	10/08/03	10/02/03	09/26/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.48 U	NA	0.52 U	0.50 U
Aroclor 1232	UG/L	0.50 U	0.48 U	NA	0.52 U	0.50 U
Aroclor 1242	UG/L	0.50 U	0.48 U	NA	0.52 U	0.50 U
Aroclor 1248	UG/L	0.50 U	0.48 U	NA	0.52 U	0.50 U
Aroclor 1254	UG/L	0.50 U	0.48 U	NA	0.52 U	0.50 U
Aroclor 1260	UG/L	0.50 U	0.48 U	NA	0.52 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.8 U	NA	3.3 U	3.4 U	3.2 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	NA	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Calcium	UG/L	306,000	1,500,000	NA	151,000	163,000
Lead	UG/L	6.0 U	6.0 U	NA	6.0 U	6.0 U
Magnesium	UG/L	82,200	518,000	NA	60,200	79,900
Mercury	UG/L	0.200 U	0.200 U	NA	0.200 U	0.200 U
Potassium	UG/L	16,100	51,100	NA	6,110	3,150 J
Sodium	UG/L	298,000 J	4,130,000	NA	66,100	65,700
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	330	215	NA	340	312
Alkalinity, Total (as CaCO3)	MG/L	330	215	NA	340	312
Chloride	MG/L	447	14,300	NA	76.4	185
Hardness	MG/L	1,230	5,870	NA	716	892
Monomethyl Mercury	NG/L	0.169 B	0.25 U	NA	NA	0.25 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Sample ID		GW03-001A-P1	GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	10/07/03	10/08/03	10/02/03	09/26/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	586	1,320	NA	266	128
Total Dissolved Solids	MG/L	2,000	20,600	NA	902	1,020
Total Organic Carbon (TOC)	MG/L	1.1	1.0 U	NA	1.2	1.0 U
Total Suspended Solids	MG/L	4.0 U	12.0	NA	4.0 U	14.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1,000	27,000	NA	300	5,000
Total Coliform	C/100 ML	20 U	40	NA	20 U	20 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	10/06/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	10 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	10 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	R	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	50 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	50 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	280
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	10/06/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	3.0 J
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Chloroform	UG/L	1.0 U	1.0	1.0 U	1.0 U	10 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Cyclohexane	UG/L	0.62 J	1.0 U	1.0 U	1.0 U	88
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	18
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	5.0 U	5.0 U	50 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Methylcyclohexane	UG/L	0.42 J	1.0 U	1.0 U	1.0 U	51
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	7.3 J
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Toluene	UG/L	0.52 J	1.0 U	1.0 U	1.0 U	270
Total Xylenes	UG/L	0.87 J	3.0 U	3.0 U	3.0 U	150
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	10/06/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	10 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	12 U	10 U	9 U	NA
2,4,5-Trichlorophenol	UG/L	10 U	12 U	10 U	9 U	NA
2,4,6-Trichlorophenol	UG/L	10 U	12 U	10 U	9 U	NA
2,4-Dichlorophenol	UG/L	10 U	12 U	10 U	9 U	NA
2,4-Dimethylphenol	UG/L	10 U	12 U	10 U	9 U	NA
2,4-Dinitrophenol	UG/L	51 UJ	58 U	53 U	47 U	NA
2,4-Dinitrotoluene	UG/L	10 U	12 U	10 U	9 U	NA
2,6-Dinitrotoluene	UG/L	10 U	12 U	10 U	9 U	NA
2-Chloronaphthalene	UG/L	10 U	12 U	10 U	9 U	NA
2-Chlorophenol	UG/L	10 U	12 U	10 U	9 U	NA
2-Methylnaphthalene	UG/L	10 U	12 U	10 U	9 U	NA
2-Methylphenol (o-cresol)	UG/L	10 U	12 U	10 U	9 U	NA
2-Nitroaniline	UG/L	51 U	58 U	53 U	47 U	NA
2-Nitrophenol	UG/L	10 U	12 U	10 U	9 U	NA
3,3-Dichlorobenzidine	UG/L	20 U	23 U	21 U	19 U	NA
3-Nitroaniline	UG/L	51 U	58 U	53 U	47 U	NA
4,6-Dinitro-2-methylphenol	UG/L	51 UJ	58 U	53 U	47 U	NA
4-Bromophenyl-phenylether	UG/L	10 U	12 U	10 U	9 U	NA
4-Chloro-3-methylphenol	UG/L	10 U	12 U	10 U	9 U	NA
4-Chloroaniline	UG/L	10 U	12 U	10 U	9 U	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	10/06/03	10/08/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	12 U	10 U	9 U	NA
4-Methylphenol (p-cresol)	UG/L	10 U	12 U	10 U	9 U	NA
4-Nitroaniline	UG/L	51 U	58 U	53 U	47 U	NA
4-Nitrophenol	UG/L	51 U	58 U	53 U	47 U	NA
Acenaphthene	UG/L	10 U	12 U	10 U	9 U	NA
Acenaphthylene	UG/L	10 U	12 U	10 U	9 U	NA
Acetophenone	UG/L	10 U	12 U	10 U	9 U	NA
Anthracene	UG/L	10 U	12 U	10 U	9 U	NA
Atrazine	UG/L	10 U	12 U	10 U	9 U	NA
Benzaldehyde	UG/L	51 U	58 U	53 U	47 UJ	NA
Benzo(a)anthracene	UG/L	10 U	12 U	10 U	9 U	NA
Benzo(a)pyrene	UG/L	10 U	12 U	10 U	9 U	NA
Benzo(b)fluoranthene	UG/L	10 U	12 U	10 U	9 U	NA
Benzo(g,h,i)perylene	UG/L	10 U	12 U	10 U	9 U	NA
Benzo(k)fluoranthene	UG/L	10 U	12 U	10 U	9 U	NA
bis(2-Chloroethoxy)methane	UG/L	10 U	12 U	10 U	9 U	NA
bis(2-Chloroethyl)ether	UG/L	10 U	12 U	10 U	9 U	NA
bis(2-Chloroisopropyl)ether	UG/L	10 U	12 U	10 U	9 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	10 U	12 U	10 U	9 U	NA
Butylbenzylphthalate	UG/L	10 U	12 U	10 U	9 U	NA
Caprolactam	UG/L	10 U	12 U	10 U	9 UJ	NA
Carbazole	UG/L	10 U	12 U	10 U	9 U	NA
Chrysene	UG/L	10 U	12 U	10 U	9 U	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	10/06/03	10/08/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	12 U	10 U	9 U	NA
Dibenzofuran	UG/L	10 U	12 U	10 U	9 U	NA
Diethylphthalate	UG/L	10 U	12 U	10 U	9 U	NA
Dimethylphthalate	UG/L	10 U	12 U	10 U	9 U	NA
Di-n-butylphthalate	UG/L	10 U	12 U	10 U	9 U	NA
Di-n-octylphthalate	UG/L	10 U	12 U	10 U	9 U	NA
Fluoranthene	UG/L	10 U	12 U	10 U	9 U	NA
Fluorene	UG/L	10 U	12 U	10 U	9 U	NA
Hexachlorobenzene	UG/L	10 U	12 U	10 U	9 U	NA
Hexachlorobutadiene	UG/L	10 U	12 U	10 U	9 U	NA
Hexachlorocyclopentadiene	UG/L	24 U	28 U	25 U	22 U	NA
Hexachloroethane	UG/L	10 U	12 U	10 U	9 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	10 U	12 U	10 U	9 U	NA
Isophorone	UG/L	10 U	12 U	10 U	9 U	NA
Naphthalene	UG/L	10 U	12 U	10 U	9 U	NA
Nitrobenzene	UG/L	10 U	12 U	10 U	9 U	NA
N-Nitroso-di-n-propylamine	UG/L	10 U	12 U	10 U	9 U	NA
N-Nitrosodiphenylamine	UG/L	10 U	12 U	10 U	9 U	NA
Pentachlorophenol	UG/L	51 U	58 U	53 U	47 U	NA
Phenanthrene	UG/L	10 U	12 U	10 U	9 U	NA
Phenol	UG/L	10 U	12 U	10 U	9 U	NA
Pyrene	UG/L	10 U	12 U	10 U	9 U	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	10/06/03	10/08/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	NA
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	R	NA
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	NA
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Methoxychlor	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	NA
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.49 U	0.50 U	0.56 U	0.50 U	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	10/06/03	10/08/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.49 U	0.50 U	0.56 U	0.50 U	NA
Aroclor 1232	UG/L	0.49 U	0.50 U	0.56 U	0.50 U	NA
Aroclor 1242	UG/L	0.49 U	0.50 U	0.56 U	0.50 U	NA
Aroclor 1248	UG/L	0.49 U	0.50 U	0.56 U	0.50 U	NA
Aroclor 1254	UG/L	0.49 U	0.50 U	0.56 U	0.50 U	NA
Aroclor 1260	UG/L	0.49 U	0.50 U	0.56 U	0.50 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.8 U	2.2 U	2.3 U	2.3 U	NA
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	45.5
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	236,000	182,000	93,200	768,000	1,220,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	43.3
Magnesium	UG/L	118,000	81,000	48,900	133,000	403,000
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 UJ
Potassium	UG/L	9,440 J	12,600	17,500	28,500	60,000 J
Sodium	UG/L	181,000	157,000	250,000	700,000	2,390,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	346	266	360	277	188 J
Alkalinity, Total (as CaCO3)	MG/L	346	266	360	277	188 J
Chloride	MG/L	518	368	313	1,240	3,240
Hardness	MG/L	2,840	843	470	2,960	6,600
Monomethyl Mercury	NG/L	0.073 B	0.165 B	0.524	0.25 U	1.370

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	10/06/03	10/08/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	301	273	154	1,430	1,300
Total Dissolved Solids	MG/L	1,760	1,500	1,220	5,060	9,130
Total Organic Carbon (TOC)	MG/L	1.0 U	2.3 J	2.3 J	1.0 U	2.3 J
Total Suspended Solids	MG/L	4.0 U	5.0	6.0	4.0 U	2,820
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	6,000	27,000	4,300	95	2,900
Total Coliform	C/100 ML	20	160	20 U	20 U	200

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/01/03	10/01/03	10/03/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	NA
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	R	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	NA
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	NA
Acetone	UG/L	R	R	R	R	NA
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/01/03	10/01/03	10/03/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloromethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	NA
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methyl acetate	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	NA
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	5.0 U	NA
Methyl tert-butyl ether	UG/L	0.71 J	1.0 U	1.0 U	1.0 U	NA
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	NA
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/01/03	10/01/03	10/03/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	12 U	NA
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	12 U	NA
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	12 U	NA
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	12 U	NA
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	12 U	NA
2,4-Dinitrophenol	UG/L	48 U	50 U	49 U	62 U	NA
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	12 U	NA
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	12 U	NA
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	12 U	NA
2-Chlorophenol	UG/L	10 U	10 U	10 U	12 U	NA
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	12 U	NA
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	12 U	NA
2-Nitroaniline	UG/L	48 U	50 U	49 U	62 U	NA
2-Nitrophenol	UG/L	10 U	10 U	10 U	12 U	NA
3,3-Dichlorobenzidine	UG/L	19 U	20 U	20 U	25 U	NA
3-Nitroaniline	UG/L	48 U	50 U	49 U	62 U	NA
4,6-Dinitro-2-methylphenol	UG/L	48 U	50 U	49 U	62 U	NA
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	12 U	NA
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	12 U	NA
4-Chloroaniline	UG/L	10 U	10 U	10 U	12 U	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/01/03	10/01/03	10/03/03	10/08/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	12 U	NA
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	12 U	NA
4-Nitroaniline	UG/L	48 U	50 U	49 U	62 U	NA
4-Nitrophenol	UG/L	48 U	50 U	49 U	62 U	NA
Acenaphthene	UG/L	10 U	10 U	10 U	12 U	NA
Acenaphthylene	UG/L	10 U	10 U	10 U	12 U	NA
Acetophenone	UG/L	10 U	10 U	10 U	12 U	NA
Anthracene	UG/L	10 U	10 U	10 U	12 U	NA
Atrazine	UG/L	10 U	10 U	10 U	12 U	NA
Benzaldehyde	UG/L	48 U	50 U	49 U	62 U	NA
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	12 U	NA
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	12 U	NA
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	12 U	NA
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	12 U	NA
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	12 U	NA
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	12 U	NA
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	12 U	NA
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	12 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	12 U	NA
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	12 U	NA
Caprolactam	UG/L	10 U	10 U	10 U	12 U	NA
Carbazole	UG/L	10 U	10 U	10 U	12 U	NA
Chrysene	UG/L	10 U	10 U	10 U	12 U	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/01/03	10/01/03	10/03/03	10/08/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	12 U	NA
Dibenzofuran	UG/L	10 U	10 U	10 U	12 U	NA
Diethylphthalate	UG/L	10 U	10 U	10 U	12 U	NA
Dimethylphthalate	UG/L	10 U	10 U	10 U	12 U	NA
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	12 U	NA
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	12 U	NA
Fluoranthene	UG/L	10 U	10 U	10 U	12 U	NA
Fluorene	UG/L	10 U	10 U	10 U	12 U	NA
Hexachlorobenzene	UG/L	10 U	10 U	10 U	12 U	NA
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	12 U	NA
Hexachlorocyclopentadiene	UG/L	23 U	24 U	23 U	29 U	NA
Hexachloroethane	UG/L	10 U	10 U	10 U	12 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	12 U	NA
Isophorone	UG/L	10 U	10 U	10 U	12 U	NA
Naphthalene	UG/L	10 U	10 U	10 U	12 U	NA
Nitrobenzene	UG/L	10 U	10 U	10 U	12 U	NA
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	12 U	NA
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	12 U	NA
Pentachlorophenol	UG/L	48 U	50 U	49 U	62 U	NA
Phenanthrene	UG/L	10 U	10 U	10 U	12 U	NA
Phenol	UG/L	10 U	10 U	10 U	12 U	NA
Pyrene	UG/L	10 U	10 U	10 U	12 U	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/01/03	10/01/03	10/03/03	10/08/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	NA	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endrin aldehyde	UG/L	0.050 U	R	R	NA	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	NA	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.49 U	0.50 U	0.50 U	NA	0.48 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/01/03	10/01/03	10/03/03	10/08/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.49 U	0.50 U	0.50 U	NA	0.48 U
Aroclor 1232	UG/L	0.49 U	0.50 U	0.50 U	NA	0.48 U
Aroclor 1242	UG/L	0.49 U	0.50 U	0.50 U	NA	0.48 U
Aroclor 1248	UG/L	0.49 U	0.50 U	0.50 U	NA	0.48 U
Aroclor 1254	UG/L	0.49 U	0.50 U	0.50 U	NA	0.48 U
Aroclor 1260	UG/L	0.49 U	0.50 U	0.50 U	NA	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.0 U	2.1 U	1.5 U	NA	3.0 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	NA
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Calcium	UG/L	125,000	646,000	669,000	91,800	NA
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	NA
Magnesium	UG/L	44,500	106,000	107,000	27,200	NA
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	NA
Potassium	UG/L	3,110	22,100	18,100	12,100	NA
Sodium	UG/L	82,300	526,000	510,000	35,400	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	350	310	282	260	NA
Alkalinity, Total (as CaCO3)	MG/L	350	310	282	260	NA
Chloride	MG/L	100	805	855	16.6	NA
Hardness	MG/L	617	1,540	2,630	468	NA
Monomethyl Mercury	NG/L	0.109 B	0.25 U	0.25 U	0.25 U	NA

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/01/03	10/01/03	10/03/03	10/08/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	139	1,320	1,260	130	NA
Total Dissolved Solids	MG/L	771	4,270	4,080	502	NA
Total Organic Carbon (TOC)	MG/L	1.3	1.0 U	1.0 U	1.0	NA
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	12.0	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	420	1 J	1,500	5,200	NA
Total Coliform	C/100 ML	20 U	20 U	20	20	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/03/03	10/08/03	10/01/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 UJ	NA	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	R	NA	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	NA	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	NA	5.0 U
Acetone	UG/L	R	R	R	NA	R
Benzene	UG/L	1.0 U	1.0 U	21	NA	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/03/03	10/08/03	10/01/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Chloromethane	UG/L	1.0 UJ	1.0 U	1.0 U	NA	1.0 UJ
Cyclohexane	UG/L	0.26 J	1.0 U	19	NA	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	2.9	NA	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	0.54 J	NA	1.0 U
Methyl acetate	UG/L	1.0 UJ	1.0 U	1.0 U	NA	1.0 UJ
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	5.0 U	NA	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Methylcyclohexane	UG/L	0.78 J	1.0 U	12	NA	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	4.1	NA	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/03/03	10/08/03	10/01/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 UJ	1.0 U	NA	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	NA	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dinitrophenol	UG/L	50 UJ	50 U	48 U	NA	50 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	NA	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	NA	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	NA	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	NA	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	NA	10 U
2-Nitroaniline	UG/L	50 U	50 U	48 U	NA	50 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	NA	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	19 U	NA	20 U
3-Nitroaniline	UG/L	50 U	50 U	48 U	NA	50 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	50 U	48 U	NA	50 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	NA	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	NA	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	NA	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/03/03	10/08/03	10/01/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	NA	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	NA	10 U
4-Nitroaniline	UG/L	50 U	50 U	48 U	NA	50 U
4-Nitrophenol	UG/L	50 U	50 U	48 U	NA	50 U
Acenaphthene	UG/L	10 U	10 U	10 U	NA	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	NA	10 U
Acetophenone	UG/L	10 U	10 U	10 U	NA	10 U
Anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Atrazine	UG/L	10 U	10 U	10 U	NA	10 U
Benzaldehyde	UG/L	50 U	50 U	48 U	NA	50 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	40	NA	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Caprolactam	UG/L	10 U	10 U	10 U	NA	10 U
Carbazole	UG/L	10 U	10 U	10 U	NA	10 U
Chrysene	UG/L	10 U	10 U	10 U	NA	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/03/03	10/08/03	10/01/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	NA	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
Fluorene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorocyclopentadiene	UG/L	24 UJ	24 U	23 U	NA	24 U
Hexachloroethane	UG/L	10 U	10 U	10 U	NA	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	NA	10 U
Isophorone	UG/L	10 U	10 U	10 U	NA	10 U
Naphthalene	UG/L	10 U	10 U	10 U	NA	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	NA	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	NA	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	NA	10 U
Pentachlorophenol	UG/L	50 U	50 U	48 U	NA	50 U
Phenanthrene	UG/L	10 U	10 U	10 U	NA	10 U
Phenol	UG/L	10 U	10 U	10 U	NA	10 U
Pyrene	UG/L	10 U	10 U	10 U	NA	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/03/03	10/08/03	10/01/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.051 U	0.050 U	NA	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	NA	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	NA	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.50 U	NA	0.49 U	0.50 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/03/03	10/08/03	10/01/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.50 U	NA	0.49 U	0.50 U
Aroclor 1232	UG/L	0.50 U	0.50 U	NA	0.49 U	0.50 U
Aroclor 1242	UG/L	0.50 U	0.50 U	NA	0.49 U	0.50 U
Aroclor 1248	UG/L	0.50 U	0.50 U	NA	0.49 U	0.50 U
Aroclor 1254	UG/L	0.50 U	0.50 U	NA	0.49 U	0.50 U
Aroclor 1260	UG/L	0.50 U	0.50 U	NA	0.49 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	3.0 U	1.9 U	NA	2.5 U	1.8 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	75.9	NA	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Calcium	UG/L	107,000	622,000	7,530,000	NA	234,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	NA	6.0 U
Magnesium	UG/L	39,300	62,000	3,360,000	NA	90,100
Mercury	UG/L	0.200 U	0.200 U	0.200 U	NA	0.200 U
Potassium	UG/L	2,530 J	8,390	309,000	NA	3,470 J
Sodium	UG/L	12,100	94,100	22,300,000	NA	15,500
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	250	260	92.0	NA	310
Alkalinity, Total (as CaCO3)	MG/L	250	260	92.0	NA	310
Chloride	MG/L	16.2	194	45,700	NA	301
Hardness	MG/L	547	1,970	9,750	NA	1,080
Monomethyl Mercury	NG/L	0.25 U	0.25 U	0.25 U	NA	0.25 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/03/03	10/08/03	10/01/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	185	1,180	1,500	NA	554
Total Dissolved Solids	MG/L	558	2,630	108,000	NA	1,320
Total Organic Carbon (TOC)	MG/L	4.7	1.8	1.0 U	NA	1.1
Total Suspended Solids	MG/L	9.0	8.0	125	NA	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1,700	870	81	NA	33
Total Coliform	C/100 ML	20	20 U	20	NA	20 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/30/03	10/08/03	10/08/03	09/29/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	R	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	3.1 J	R	R	4.6 J	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/30/03	10/08/03	10/08/03	09/29/03
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.1	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	0.27 J	1.1	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	0.80 J	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	1.6 J	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/30/03	10/08/03	10/08/03	09/29/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 UJ	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	50 UJ	50 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	50 U	50 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	20 U	19 U	19 U
3-Nitroaniline	UG/L	48 U	50 U	50 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	50 U	50 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/30/03	10/08/03	10/08/03	09/29/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	50 U	50 U	48 U	48 U
4-Nitrophenol	UG/L	48 U	50 U	50 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 UJ	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	48 UJ	50 U	50 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/30/03	10/08/03	10/08/03	09/29/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	24 U	24 U	22 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	50 U	50 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/30/03	10/08/03	10/08/03	09/29/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.053 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	R	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.50 U	0.50 UJ	0.48 UJ	0.50 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/30/03	10/08/03	10/08/03	09/29/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.50 U	0.50 UJ	0.48 UJ	0.50 U
Aroclor 1232	UG/L	0.48 U	0.50 U	0.50 UJ	0.48 UJ	0.50 U
Aroclor 1242	UG/L	0.48 U	0.50 U	0.50 UJ	0.48 UJ	0.50 U
Aroclor 1248	UG/L	0.48 U	0.50 U	0.50 UJ	0.48 UJ	0.50 U
Aroclor 1254	UG/L	0.48 U	0.50 U	0.50 UJ	0.48 UJ	0.50 U
Aroclor 1260	UG/L	0.48 U	0.50 U	0.50 UJ	0.48 UJ	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.2 U	2.2 U	2.8 U	2.9 U	1.5 U
Metals						
Arsenic	UG/L	10.0 UJ	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	271,000	96,300	674,000	3,530,000	113,000
Lead	UG/L	6.0 UJ	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	69,800	27,700	125,000	1,520,000	43,400
Mercury	UG/L	0.200 UJ	0.200 U	0.200 UJ	0.200 UJ	0.200 U
Potassium	UG/L	7,900	2,080	23,100 J	180,000 J	1,060
Sodium	UG/L	72,500	76,700	551,000	11,000,000	8,280
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	274	270	223 J	181 J	285
Alkalinity, Total (as CaCO3)	MG/L	274	270	223 J	181 J	285
Chloride	MG/L	70.7	28.3	1,270	40,700	15.2
Hardness	MG/L	6,000	468	3,500	17,500	627
Monomethyl Mercury	NG/L	0.151 B	0.25 U	0.25 U	0.25 U	0.25 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-007B-P5	GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/30/03	10/08/03	10/08/03	09/29/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	873	175	1,280	1,600	157
Total Dissolved Solids	MG/L	1,690	615	2,300	57,500	585
Total Organic Carbon (TOC)	MG/L	2.6	7.4 J	3.3	4.4	2.1 J
Total Suspended Solids	MG/L	16.0	10.0	7.0	13.0	7.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	9,800	660	67 J	360 J	590
Total Coliform	C/100 ML	20	20 U	20 UJ	20 UJ	20 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Sample ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/09/03	09/29/03	10/09/03	10/13/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	1.0 U	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	2.5 J	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	100 D
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Sample ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/09/03	09/29/03	10/09/03	10/13/03
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	110 D
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	21
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	2.4
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	R	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	180 D	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	45 D
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	190 D
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	130 D
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Sample ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/09/03	09/29/03	10/09/03	10/13/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	4 J
2,4-Dinitrophenol	UG/L	51 UJ	48 U	52 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	4 J
2-Nitroaniline	UG/L	51 U	48 U	52 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	21 U	19 U	19 U
3-Nitroaniline	UG/L	51 U	48 U	52 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	51 U	48 U	52 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Sample ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/09/03	09/29/03	10/09/03	10/13/03
Parameter	**Units**					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	7 J
4-Nitroaniline	UG/L	51 U	48 U	52 U	48 U	48 U
4-Nitrophenol	UG/L	51 U	48 U	52 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	51 U	48 U	52 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	22	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Sample ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/09/03	09/29/03	10/09/03	10/13/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	23 U	24 U	23 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	51 U	48 U	52 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	3 J
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Sample ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/09/03	09/29/03	10/09/03	10/13/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.053 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	R	R
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.49 UJ	0.48 U	0.48 U	0.48 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Sample ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/09/03	09/29/03	10/09/03	10/13/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.49 UJ	0.48 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.50 U	0.49 UJ	0.48 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.50 U	0.49 UJ	0.48 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.50 U	0.49 UJ	0.48 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.50 U	0.49 UJ	0.48 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.50 U	0.49 UJ	0.48 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.9 U	2.3 U	1.7 U	3.0 U	4.1 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 UJ	13.0
Cadmium	UG/L	1.0 U	1.8	1.0 U	1.0 U	1.0 U
Calcium	UG/L	178,000	361,000	403,000	591,000	2,520,000
Lead	UG/L	6.0 U	78.9	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	46,500	86,700	102,000	54,400	1,220,000
Mercury	UG/L	0.200 U	0.200 UJ	0.200 U	0.200 U	0.200 U
Potassium	UG/L	3,610	11,300 J	5,370	6,970	204,000 J
Sodium	UG/L	33,100	225,000	40,800	66,800	10,600,000 J
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	284	251 J	314	282	212
Alkalinity, Total (as CaCO3)	MG/L	284	251 J	314	282	212
Chloride	MG/L	18.8	268	94.5	230	84,200
Hardness	MG/L	726	1,420	2,270	1,900	17,000
Monomethyl Mercury	NG/L	0.25 U	0.25 U	0.25 U	NA	0.25 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Sample ID		GW03-008B-P5	GW03-008B-P6	GW03-009A-P1	GW03-009A-P2	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/09/03	09/29/03	10/09/03	10/13/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	301	773	757	1,230	1,550
Total Dissolved Solids	MG/L	811	2,220	1,930	2,440	42,200
Total Organic Carbon (TOC)	MG/L	7.4 J	4.9	2.7	2.6	1.0 U
Total Suspended Solids	MG/L	15.0	625	4.0 U	4.0 U	44.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	680	20,000	580	170 J	440
Total Coliform	C/100 ML	20 U	20 U	20 U	20 UJ	20 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Sample ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	10/09/03	10/13/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Sample ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	10/09/03	10/13/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	0.23 J	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	R	R	R
Methyl tert-butyl ether	UG/L	20	48 D	32	1.0 U	2.1
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Sample ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	10/09/03	10/13/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	11 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	11 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	11 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	11 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	11 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	53 U	48 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	11 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	11 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	11 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	11 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	11 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	11 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	50 U	53 U	48 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	11 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	21 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	50 U	53 U	48 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	53 U	48 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	11 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	11 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	11 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Sample ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	10/09/03	10/13/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	11 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	11 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	50 U	53 U	48 U	48 U	48 U
4-Nitrophenol	UG/L	50 U	53 U	48 U	48 U	48 U
Acenaphthene	UG/L	10 U	11 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	11 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	11 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	11 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	11 U	10 U	10 U	10 U
Benzaldehyde	UG/L	50 U	53 U	48 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	11 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	11 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	11 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	11 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	11 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	11 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	11 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	11 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	11 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	11 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	11 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	11 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	11 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Sample ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	10/09/03	10/13/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	11 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	11 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	11 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	11 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	11 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	11 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	11 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	11 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	11 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	11 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	25 U	23 U	23 U	23 U
Hexachloroethane	UG/L	10 U	11 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	11 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	11 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	11 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	11 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	11 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	11 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	50 U	53 U	48 U	48 U	48 U
Phenanthrene	UG/L	10 U	11 U	10 U	10 U	10 U
Phenol	UG/L	10 U	11 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	11 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Sample ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	10/09/03	10/13/03
Parameter	**Units**					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	R	R
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.55 U	0.48 U	0.49 U	0.50 U	0.48 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Sample ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	10/09/03	10/13/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.55 U	0.48 U	0.49 U	0.50 U	0.48 U
Aroclor 1232	UG/L	0.55 U	0.48 U	0.49 U	0.50 U	0.48 U
Aroclor 1242	UG/L	0.55 U	0.48 U	0.49 U	0.50 U	0.48 U
Aroclor 1248	UG/L	0.55 U	0.48 U	0.49 U	0.50 U	0.48 U
Aroclor 1254	UG/L	0.55 U	0.48 U	0.49 U	0.50 U	0.48 U
Aroclor 1260	UG/L	0.55 U	0.48 U	0.49 U	0.50 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.9 U	2.0 U	2.2 U	3.1 U	2.6 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 UJ	10.0 U
Cadmium	UG/L	3.0	3.2	2.9	1.0 U	1.0 U
Calcium	UG/L	177,000	250,000	175,000	539,000	589,000
Lead	UG/L	6.0 U	9.0	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	50,800	60,000	50,600	121,000	51,700 J
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	7,850	8,620	9,040	17,900 J	7,970
Sodium	UG/L	413,000	502,000	398,000	128,000	112,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	331	340	324	284	264
Alkalinity, Total (as CaCO3)	MG/L	331	340	324	284	264
Chloride	MG/L	603	685	603	182	236 J
Hardness	MG/L	686	1,020	756	2,160	2,090
Monomethyl Mercury	NG/L	0.25 U	0.25 UJ	0.25 U	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Sample ID		GW03-009B-P4	GW03-009B-P5	GW03-009B-P6	GW03-010A-P1	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	10/09/03	10/13/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	143	214	138	1,400	1,220 J
Total Dissolved Solids	MG/L	1,830	2,400	1,800	2,780	2,730
Total Organic Carbon (TOC)	MG/L	1.9 J	2.0 J	1.5 J	1.2	1.4
Total Suspended Solids	MG/L	4.0 U	45.0	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	260	16,000	3,500	140 J	6 U
Total Coliform	C/100 ML	60	20	20	20 UJ	20 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Sample ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/26/03	10/08/03	10/09/03	09/26/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	R	R	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	6.7 J	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Sample ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/26/03	10/08/03	10/09/03	09/26/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon Disulfide	UG/L	0.37 J	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	0.37 J	1.0	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Sample ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/26/03	10/08/03	10/09/03	09/26/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	NA	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	NA	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	NA	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	NA	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	NA	48 UJ	50 U	51 U	48 UJ
2,4-Dinitrotoluene	UG/L	NA	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	NA	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	NA	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	NA	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	NA	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	NA	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	NA	48 U	50 U	51 U	48 U
2-Nitrophenol	UG/L	NA	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	NA	19 U	20 U	20 U	19 U
3-Nitroaniline	UG/L	NA	48 U	50 U	51 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	NA	48 UJ	50 U	51 U	48 UJ
4-Bromophenyl-phenylether	UG/L	NA	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	NA	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	NA	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Sample ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/26/03	10/08/03	10/09/03	09/26/03
Parameter	**Units**					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	NA	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	NA	48 U	50 U	51 U	48 U
4-Nitrophenol	UG/L	NA	48 U	50 U	51 U	48 U
Acenaphthene	UG/L	NA	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	NA	10 U	10 U	10 U	10 U
Acetophenone	UG/L	NA	10 U	10 U	10 U	10 U
Anthracene	UG/L	NA	10 U	10 U	10 U	10 U
Atrazine	UG/L	NA	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	NA	48 U	50 U	51 U	48 U
Benzo(a)anthracene	UG/L	NA	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	NA	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	NA	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	NA	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	NA	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Caprolactam	UG/L	NA	10 U	10 U	10 U	10 U
Carbazole	UG/L	NA	10 U	10 U	10 U	10 U
Chrysene	UG/L	NA	10 U	10 U	10 U	10 U

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Sample ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/26/03	10/08/03	10/09/03	09/26/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	NA	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	NA	10 U	10 U	10 U	10 U
Fluorene	UG/L	NA	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	NA	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	NA	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	NA	23 U	24 U	24 U	23 U
Hexachloroethane	UG/L	NA	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	NA	10 U	10 U	10 U	10 U
Isophorone	UG/L	NA	10 U	10 U	10 U	10 U
Naphthalene	UG/L	NA	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	NA	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	NA	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	NA	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	NA	48 U	50 U	51 U	48 U
Phenanthrene	UG/L	NA	10 U	10 U	10 U	10 U
Phenol	UG/L	NA	10 U	10 U	10 U	10 U
Pyrene	UG/L	NA	10 U	10 U	10 U	10 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Sample ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/26/03	10/08/03	10/09/03	09/26/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	NA	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	NA	0.050 U	0.050 U	R	0.050 U
Endrin ketone	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	NA	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	NA	0.050 UJ	0.050 U	0.050 U	0.050 UJ
Toxaphene	UG/L	NA	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	0.48 U	0.48 U	0.48 U	0.48 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Sample ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/26/03	10/08/03	10/09/03	09/26/03
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1232	UG/L	NA	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1242	UG/L	NA	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1248	UG/L	NA	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1254	UG/L	NA	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1260	UG/L	NA	0.48 U	0.48 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	2.7 U	4.4 U	3.2 U	3.1 U
Metals						
Arsenic	UG/L	NA	19.9	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	NA	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	NA	180,000	328,000	598,000	162,000
Lead	UG/L	NA	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	NA	41,400	68,600	73,700	50,400
Mercury	UG/L	NA	0.200 U	0.200 UJ	0.200 UJ	0.200 U
Potassium	UG/L	NA	2,400 J	3,590 J	9,580 J	2,500 J
Sodium	UG/L	NA	70,000	71,500	134,000	292,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	294	244	215 J	320
Alkalinity, Total (as CaCO3)	MG/L	NA	294	244	215 J	320
Chloride	MG/L	NA	88.6	67.6	201	383
Hardness	MG/L	NA	706	1,340	1,960	784
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Sample ID		GW03-010A-P3	GW03-010B-P4	GW03-010B-P5	GW03-010B-P6	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	09/26/03	10/08/03	10/09/03	09/26/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	352	706	1,310	145
Total Dissolved Solids	MG/L	NA	914	1,630	2,790	1,390
Total Organic Carbon (TOC)	MG/L	1.2	2.2	1.5 J	2.4	1.9
Total Suspended Solids	MG/L	NA	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	660	140	26 J	170
Total Coliform	C/100 ML	NA	20 U	20 U	20 U	20 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Sample ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/14/03	10/13/03	09/25/03	09/25/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	0.38 J	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Sample ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/14/03	10/13/03	09/25/03	09/25/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	0.43 J	1.7 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	0.61 J	0.71 J	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	0.89 J	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Sample ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/14/03	10/13/03	09/25/03	09/25/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	9 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dinitrophenol	UG/L	50 U	50 U	49 U	47 UJ	50 UJ
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	9 U	10 U
2-Nitroaniline	UG/L	50 U	50 U	49 U	47 U	50 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	9 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	20 U	19 U	20 U
3-Nitroaniline	UG/L	50 U	50 U	49 U	47 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	50 U	49 U	47 UJ	50 UJ
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	9 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	9 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Sample ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/14/03	10/13/03	09/25/03	09/25/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	9 U	10 U
4-Nitroaniline	UG/L	50 U	50 U	49 U	47 U	50 U
4-Nitrophenol	UG/L	50 U	50 U	49 U	47 U	50 U
Acenaphthene	UG/L	10 U	10 U	10 U	9 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	9 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	9 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	9 U	10 U
Benzaldehyde	UG/L	50 U	50 U	49 U	47 U	50 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	9 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	9 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	9 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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NIAGARA POWER PROJECT RELICENSING

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Sample ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/14/03	10/13/03	09/25/03	09/25/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	9 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	24 U	23 U	22 U	24 U
Hexachloroethane	UG/L	10 U	10 U	10 U	9 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	9 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	9 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	9 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	9 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	9 U	10 U
Pentachlorophenol	UG/L	50 U	50 U	49 U	47 U	50 U
Phenanthrene	UG/L	10 U	10 U	10 U	9 U	10 U
Phenol	UG/L	10 U	10 U	10 U	9 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	9 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Sample ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/14/03	10/13/03	09/25/03	09/25/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.051 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	R	R	R	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 UJ	0.050 UJ
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	0.50 U	0.48 U	0.48 U	0.50 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Sample ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/14/03	10/13/03	09/25/03	09/25/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.47 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.47 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.47 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.47 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.47 U	0.50 U	0.48 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.6 U	2.5 U	2.8 U	2.9 U	3.8 U
Metals						
Arsenic	UG/L	10.0 U	10.0 UJ	14.9	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	398,000	895,000	3,150,000	90,700	87,400
Lead	UG/L	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	95,100	221,000	1,080,000 J	65,100	71,700
Mercury	UG/L	0.200 UJ	0.200 UJ	0.200 U	0.200 U	0.200 U
Potassium	UG/L	7,570	37,700 J	161,000	1,710	1,770
Sodium	UG/L	101,000	1,160,000	9,570,000	44,800 J	42,000 J
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	371 J	375	353	380	364
Alkalinity, Total (as CaCO3)	MG/L	371 J	375	353	380	364
Chloride	MG/L	198	2,760 J	24,200 J	19.9	35.2
Hardness	MG/L	1,720	4,500	16,600	343	513
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Sample ID		GW03-011A-P1	GW03-011A-P2	GW03-011A-P3	GW03-011B-P4	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/14/03	10/13/03	09/25/03	09/25/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	904	1,650 J	1,690 J	111	116
Total Dissolved Solids	MG/L	2,090	6,820	38,700	622	612
Total Organic Carbon (TOC)	MG/L	19.7	4.0	1.0 U	2.1	1.8
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	32	94	3 U	2,000	410 J
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	20 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/25/03	10/10/03	10/15/03	10/09/03	10/09/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 U	2.0 UJ	1.0 UJ	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	R	2.0 U	R	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 UJ	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	10 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	10 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	90 D	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/25/03	10/10/03	10/15/03	10/09/03	10/09/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 UJ	2.0 UJ	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.1 J	0.65 J	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	9.6 J	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	2.0 UJ	1.0 U	1.0 U
Methylene chloride	UG/L	1.8	1.0 U	2.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	22	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	5.8 J	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/25/03	10/10/03	10/15/03	10/09/03	10/09/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 U	2.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	9 U	10 UJ	9 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	9 U	10 U	9 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	9 U	10 U	9 U	10 U
2,4-Dichlorophenol	UG/L	10 U	9 U	10 U	9 U	10 U
2,4-Dimethylphenol	UG/L	10 U	9 U	3 J	9 U	10 U
2,4-Dinitrophenol	UG/L	51 UJ	47 U	49 U	47 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	9 U	10 U	9 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	9 U	10 U	9 U	10 U
2-Chloronaphthalene	UG/L	10 U	9 U	10 U	9 U	10 U
2-Chlorophenol	UG/L	10 U	9 U	10 U	9 U	10 U
2-Methylnaphthalene	UG/L	10 U	9 U	10 U	9 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	9 U	3 J	9 U	10 U
2-Nitroaniline	UG/L	51 U	47 U	49 U	47 U	48 U
2-Nitrophenol	UG/L	10 U	9 U	10 U	9 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	20 U	19 U	19 U
3-Nitroaniline	UG/L	51 U	47 U	49 U	47 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	51 UJ	47 U	49 U	47 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	9 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	9 U	10 U	9 U	10 U
4-Chloroaniline	UG/L	10 U	9 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/25/03	10/10/03	10/15/03	10/09/03	10/09/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	9 U	10 U	9 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	9 U	6 J	9 U	10 U
4-Nitroaniline	UG/L	51 U	47 U	49 U	47 U	48 U
4-Nitrophenol	UG/L	51 U	47 U	49 U	47 U	48 U
Acenaphthene	UG/L	10 U	9 U	10 U	9 U	10 U
Acenaphthylene	UG/L	10 U	9 U	10 U	9 U	10 U
Acetophenone	UG/L	10 U	9 U	10 UJ	9 U	10 U
Anthracene	UG/L	10 U	9 U	10 U	9 U	10 U
Atrazine	UG/L	10 U	9 U	10 U	9 U	10 U
Benzaldehyde	UG/L	51 U	47 U	49 UJ	47 U	48 U
Benzo(a)anthracene	UG/L	10 U	9 U	10 U	9 U	10 U
Benzo(a)pyrene	UG/L	10 U	9 U	10 U	9 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	9 U	10 U	9 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	9 U	10 U	9 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	9 U	10 U	9 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	9 U	10 U	9 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	9 U	10 U	9 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	9 U	10 U	9 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	9 U	41	9 U	10 U
Butylbenzylphthalate	UG/L	10 U	9 U	10 U	9 U	10 U
Caprolactam	UG/L	10 U	9 U	10 U	17	10 U
Carbazole	UG/L	10 U	9 U	10 U	9 U	10 U
Chrysene	UG/L	10 U	9 U	10 U	9 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/25/03	10/10/03	10/15/03	10/09/03	10/09/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	9 U	10 U	9 U	10 U
Dibenzofuran	UG/L	10 U	9 U	10 U	9 U	10 U
Diethylphthalate	UG/L	10 U	9 U	10 U	9 U	10 U
Dimethylphthalate	UG/L	10 U	9 U	10 U	9 U	10 U
Di-n-butylphthalate	UG/L	10 U	9 U	10 U	9 U	10 U
Di-n-octylphthalate	UG/L	10 U	9 U	10 U	9 U	10 U
Fluoranthene	UG/L	10 U	9 U	10 U	9 U	10 U
Fluorene	UG/L	10 U	9 U	10 U	9 U	10 U
Hexachlorobenzene	UG/L	10 U	9 U	10 U	9 U	10 U
Hexachlorobutadiene	UG/L	10 U	9 U	10 U	9 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	22 U	23 U	22 U	23 U
Hexachloroethane	UG/L	10 U	9 U	10 U	9 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	9 U	10 U	9 U	10 U
Isophorone	UG/L	10 U	9 U	10 U	9 U	10 U
Naphthalene	UG/L	10 U	9 U	10 U	9 U	10 U
Nitrobenzene	UG/L	10 U	9 U	10 U	9 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	9 U	10 U	9 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	9 U	10 U	9 U	10 U
Pentachlorophenol	UG/L	51 U	47 U	49 U	47 U	48 U
Phenanthrene	UG/L	10 U	9 U	10 U	9 U	10 U
Phenol	UG/L	10 U	9 U	6 J	9 U	10 U
Pyrene	UG/L	10 U	9 U	10 U	9 U	10 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/25/03	10/10/03	10/15/03	10/09/03	10/09/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	R	0.050 U	0.050 UJ
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 UJ	0.050 U	0.050 UJ	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.53 U	0.48 U	0.48 U	0.48 U	0.48 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/25/03	10/10/03	10/15/03	10/09/03	10/09/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.53 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.53 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.53 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.53 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.53 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.53 U	0.48 U	0.48 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	4.0 U	6.0 U	9.1 UJ	2.4 U	2.8 U
Metals						
Arsenic	UG/L	10.0 U	10.0 UJ	11.8 J	10.0 U	10.0 UJ
Cadmium	UG/L	1.0 U	1.3	1.0 U	1.0 U	1.0 U
Calcium	UG/L	199,000	167,000	7,770,000 J	582,000	301,000
Lead	UG/L	6.0 U	6.3 J	60.1	6.0 U	6.0 U
Magnesium	UG/L	49,700	42,300	2,750,000	82,500	51,000
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 UJ	0.200 U
Potassium	UG/L	1,630	4,520 J	400,000	10,500 J	11,400
Sodium	UG/L	21,000 J	658,000	23,300,000	361,000	442,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	310	267 J	160	285 J	316
Alkalinity, Total (as CaCO3)	MG/L	310	267 J	160	285 J	316
Chloride	MG/L	4.6	911	60,100	475	637
Hardness	MG/L	941	710	35,600	1,960	1,320
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-011C-P8	GW03-012A-P2	GW03-012A-P3	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/25/03	10/10/03	10/15/03	10/09/03	10/09/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	337	275	1,180	1,180	595
Total Dissolved Solids	MG/L	918	2,290	96,900	3,210	1,160
Total Organic Carbon (TOC)	MG/L	2.1	1.6	1.0 U	2.4	1.0
Total Suspended Solids	MG/L	4.0 U	4.0 U	470	22.0	6.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	610	370	1,200 J	6,700	670 J
Total Coliform	C/100 ML	20 U	20 U	20 UJ	20 U	20 UJ

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/14/03	10/13/03	10/08/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	1.0 U	1.0 U	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	0.35 J	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	0.36 J	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	0.92 J	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/14/03	10/13/03	10/08/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	0.28 J
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.7	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 UJ	2.3 J	1.0 U	0.41 J
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	R	R	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	0.86 J	1.0 U	0.98 J
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	0.34 J	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	0.90 J	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	0.63 J	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/14/03	10/13/03	10/08/03	10/08/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9 U	10 U	10 U	9 U	9 U
2,4,5-Trichlorophenol	UG/L	9 U	10 U	10 U	9 U	9 U
2,4,6-Trichlorophenol	UG/L	9 U	10 U	10 U	9 U	9 U
2,4-Dichlorophenol	UG/L	9 U	10 U	10 U	9 U	9 U
2,4-Dimethylphenol	UG/L	9 U	10 U	10 U	9 U	9 U
2,4-Dinitrophenol	UG/L	47 U	50 U	48 U	47 U	47 U
2,4-Dinitrotoluene	UG/L	9 U	10 U	10 U	9 U	9 U
2,6-Dinitrotoluene	UG/L	9 U	10 U	10 U	9 U	9 U
2-Chloronaphthalene	UG/L	9 U	10 U	10 U	9 U	9 U
2-Chlorophenol	UG/L	9 U	10 U	10 U	9 U	9 U
2-Methylnaphthalene	UG/L	9 U	10 U	10 U	9 U	9 U
2-Methylphenol (o-cresol)	UG/L	9 U	10 U	10 U	9 U	9 U
2-Nitroaniline	UG/L	47 U	50 U	48 U	47 U	47 U
2-Nitrophenol	UG/L	9 U	10 U	10 U	9 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	47 U	50 U	48 U	47 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	50 U	48 U	47 U	47 U
4-Bromophenyl-phenylether	UG/L	9 U	10 U	10 U	9 U	9 U
4-Chloro-3-methylphenol	UG/L	9 U	10 U	10 U	9 U	9 U
4-Chloroaniline	UG/L	9 U	10 U	10 U	9 U	9 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/14/03	10/13/03	10/08/03	10/08/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	9 U	10 U	10 U	9 U	9 U
4-Methylphenol (p-cresol)	UG/L	9 U	10 U	10 U	9 U	9 U
4-Nitroaniline	UG/L	47 U	50 U	48 U	47 U	47 U
4-Nitrophenol	UG/L	47 U	50 U	48 U	47 U	47 U
Acenaphthene	UG/L	9 U	10 U	10 U	9 U	9 U
Acenaphthylene	UG/L	9 U	10 U	10 U	9 U	9 U
Acetophenone	UG/L	9 U	10 U	10 U	9 U	9 U
Anthracene	UG/L	9 U	10 U	10 U	9 U	9 U
Atrazine	UG/L	9 U	10 U	10 U	9 U	9 U
Benzaldehyde	UG/L	47 U	50 U	48 U	47 U	47 U
Benzo(a)anthracene	UG/L	9 U	10 U	10 U	9 U	9 U
Benzo(a)pyrene	UG/L	9 U	10 U	10 U	9 U	9 U
Benzo(b)fluoranthene	UG/L	9 U	10 U	10 U	9 U	9 U
Benzo(g,h,i)perylene	UG/L	9 U	10 U	10 U	9 U	9 U
Benzo(k)fluoranthene	UG/L	9 U	10 U	10 U	9 U	9 U
bis(2-Chloroethoxy)methane	UG/L	9 U	10 U	10 U	9 U	9 U
bis(2-Chloroethyl)ether	UG/L	9 U	10 U	10 U	9 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	10 U	10 U	9 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	10 U	10 U	9 U	8 J
Butylbenzylphthalate	UG/L	9 U	10 U	10 U	9 U	9 U
Caprolactam	UG/L	9 U	10 U	10 U	9 U	9 U
Carbazole	UG/L	9 U	10 U	10 U	9 U	9 U
Chrysene	UG/L	9 U	10 U	10 U	9 U	9 U

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/14/03	10/13/03	10/08/03	10/08/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	9 U	10 U	10 U	9 U	9 U
Dibenzofuran	UG/L	9 U	10 U	10 U	9 U	9 U
Diethylphthalate	UG/L	9 U	10 U	10 U	9 U	9 U
Dimethylphthalate	UG/L	9 U	10 U	10 U	9 U	9 U
Di-n-butylphthalate	UG/L	9 U	10 U	10 U	9 U	9 U
Di-n-octylphthalate	UG/L	9 U	10 U	10 U	9 U	9 U
Fluoranthene	UG/L	9 U	10 U	10 U	9 U	9 U
Fluorene	UG/L	9 U	10 U	10 U	9 U	9 U
Hexachlorobenzene	UG/L	9 U	10 U	10 U	9 U	9 U
Hexachlorobutadiene	UG/L	9 U	10 U	10 U	9 U	9 U
Hexachlorocyclopentadiene	UG/L	22 U	24 U	23 U	22 U	22 U
Hexachloroethane	UG/L	9 U	10 U	10 U	9 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	10 U	10 U	9 U	9 U
Isophorone	UG/L	9 U	10 U	10 U	9 U	9 U
Naphthalene	UG/L	9 U	10 U	10 U	9 U	9 U
Nitrobenzene	UG/L	9 U	10 U	10 U	9 U	9 U
N-Nitroso-di-n-propylamine	UG/L	9 U	10 U	10 U	9 U	9 U
N-Nitrosodiphenylamine	UG/L	9 U	10 U	10 U	9 U	9 U
Pentachlorophenol	UG/L	47 U	50 U	48 U	47 U	47 U
Phenanthrene	UG/L	9 U	10 U	10 U	9 U	9 U
Phenol	UG/L	9 U	10 U	10 U	9 U	9 U
Pyrene	UG/L	9 U	10 U	10 U	9 U	9 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/14/03	10/13/03	10/08/03	10/08/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	R
Endrin ketone	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	0.50 U	0.48 U	0.48 UJ	0.47 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/14/03	10/13/03	10/08/03	10/08/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	0.50 U	0.48 U	0.48 UJ	0.47 U
Aroclor 1232	UG/L	0.47 U	0.50 U	0.48 U	0.48 UJ	0.47 U
Aroclor 1242	UG/L	0.47 U	0.50 U	0.48 U	0.48 UJ	0.47 U
Aroclor 1248	UG/L	0.47 U	0.50 U	0.48 U	0.48 UJ	0.47 U
Aroclor 1254	UG/L	0.47 U	0.50 U	0.48 U	0.48 UJ	0.47 U
Aroclor 1260	UG/L	0.47 U	0.50 U	0.48 U	0.48 UJ	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.4 U	2.3 U	3.0 U	2.6 U	2.2 U
Metals						
Arsenic	UG/L	10.0 U	10.0 UJ	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	149,000	68,700	987,000	135,000	412,000
Lead	UG/L	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	48,000	16,900	242,000 J	44,700	64,100
Mercury	UG/L	0.200 UJ	0.200 UJ	0.200 U	0.200 UJ	0.200 UJ
Potassium	UG/L	3,300 J	2,910 J	59,600	2,930 J	13,200 J
Sodium	UG/L	337,000	43,900	1,920,000	302,000	105,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	245 J	126	111	258 J	285
Alkalinity, Total (as CaCO3)	MG/L	245 J	126	111	258 J	285
Chloride	MG/L	499	85.7 J	6,250 J	445	280
Hardness	MG/L	570	248	4,020	892	1,340
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/14/03	10/13/03	10/08/03	10/08/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	190	89.5 J	457 J	174	750
Total Dissolved Solids	MG/L	1,550	367	9,130	1,510	1,900
Total Organic Carbon (TOC)	MG/L	2.0	1.0 U	1.0 U	2.1	1.6
Total Suspended Solids	MG/L	20.0	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	2,400 J	600	120	2,200 J	320
Total Coliform	C/100 ML	20 UJ	20 U	20 U	20 UJ	20 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	10/08/03	10/09/03	10/15/03	10/14/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 UJ	NA	NA	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	R	NA	NA	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	NA	NA	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	NA	NA	5.0 U
Acetone	UG/L	5.5 J	R	NA	NA	R
Benzene	UG/L	1.0 U	1.0 U	NA	NA	0.82 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	10/08/03	10/09/03	10/15/03	10/14/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Carbon Disulfide	UG/L	1.0 U	0.21 J	NA	NA	7.2 J
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Cyclohexane	UG/L	0.32 J	1.0 U	NA	NA	1.4 J
Dibromochloromethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	NA	NA	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	NA	NA	0.55 J
Methylene chloride	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Styrene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Toluene	UG/L	1.0 U	1.0 U	NA	NA	1.9
Total Xylenes	UG/L	1.3 J	3.0 U	NA	NA	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	NA	NA	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	10/08/03	10/09/03	10/15/03	10/14/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	NA	NA	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 UJ	NA	NA	10 UJ	9 U
2,4,5-Trichlorophenol	UG/L	10 U	NA	NA	10 U	9 U
2,4,6-Trichlorophenol	UG/L	10 U	NA	NA	10 U	9 U
2,4-Dichlorophenol	UG/L	10 U	NA	NA	10 U	9 U
2,4-Dimethylphenol	UG/L	10 U	NA	NA	10 U	9 U
2,4-Dinitrophenol	UG/L	48 U	NA	NA	50 U	47 U
2,4-Dinitrotoluene	UG/L	10 U	NA	NA	10 U	9 U
2,6-Dinitrotoluene	UG/L	10 U	NA	NA	10 U	9 U
2-Chloronaphthalene	UG/L	10 U	NA	NA	10 U	9 U
2-Chlorophenol	UG/L	10 U	NA	NA	10 U	9 U
2-Methylnaphthalene	UG/L	10 U	NA	NA	10 U	9 U
2-Methylphenol (o-cresol)	UG/L	10 U	NA	NA	10 U	9 U
2-Nitroaniline	UG/L	48 U	NA	NA	50 U	47 U
2-Nitrophenol	UG/L	10 U	NA	NA	10 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	NA	NA	20 U	19 U
3-Nitroaniline	UG/L	48 U	NA	NA	50 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	NA	NA	50 U	47 U
4-Bromophenyl-phenylether	UG/L	10 U	NA	NA	10 U	9 U
4-Chloro-3-methylphenol	UG/L	10 U	NA	NA	10 U	9 U
4-Chloroaniline	UG/L	10 U	NA	NA	10 U	9 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	10/08/03	10/09/03	10/15/03	10/14/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	NA	NA	10 U	9 U
4-Methylphenol (p-cresol)	UG/L	10 U	NA	NA	10 U	9 U
4-Nitroaniline	UG/L	48 U	NA	NA	50 U	47 U
4-Nitrophenol	UG/L	48 U	NA	NA	50 U	47 U
Acenaphthene	UG/L	10 U	NA	NA	10 U	9 U
Acenaphthylene	UG/L	10 U	NA	NA	10 U	9 U
Acetophenone	UG/L	10 UJ	NA	NA	10 UJ	9 U
Anthracene	UG/L	10 U	NA	NA	10 U	9 U
Atrazine	UG/L	10 U	NA	NA	10 U	9 U
Benzaldehyde	UG/L	48 UJ	NA	NA	50 UJ	47 U
Benzo(a)anthracene	UG/L	10 U	NA	NA	10 U	9 U
Benzo(a)pyrene	UG/L	10 U	NA	NA	10 U	9 U
Benzo(b)fluoranthene	UG/L	10 U	NA	NA	10 U	9 U
Benzo(g,h,i)perylene	UG/L	10 U	NA	NA	10 U	9 U
Benzo(k)fluoranthene	UG/L	10 U	NA	NA	10 U	9 U
bis(2-Chloroethoxy)methane	UG/L	10 U	NA	NA	10 U	9 U
bis(2-Chloroethyl)ether	UG/L	10 U	NA	NA	10 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	NA	NA	10 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	NA	NA	10 U	7 J
Butylbenzylphthalate	UG/L	10 U	NA	NA	10 U	9 U
Caprolactam	UG/L	10 U	NA	NA	10 U	66
Carbazole	UG/L	10 U	NA	NA	10 U	9 U
Chrysene	UG/L	10 U	NA	NA	10 U	9 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	10/08/03	10/09/03	10/15/03	10/14/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	NA	NA	10 U	9 U
Dibenzofuran	UG/L	10 U	NA	NA	10 U	9 U
Diethylphthalate	UG/L	10 U	NA	NA	10 U	9 U
Dimethylphthalate	UG/L	10 U	NA	NA	10 U	9 U
Di-n-butylphthalate	UG/L	10 U	NA	NA	10 U	9 U
Di-n-octylphthalate	UG/L	10 U	NA	NA	10 U	9 U
Fluoranthene	UG/L	10 U	NA	NA	10 U	9 U
Fluorene	UG/L	10 U	NA	NA	10 U	9 U
Hexachlorobenzene	UG/L	10 U	NA	NA	10 U	9 U
Hexachlorobutadiene	UG/L	10 U	NA	NA	10 U	9 U
Hexachlorocyclopentadiene	UG/L	23 U	NA	NA	24 U	22 U
Hexachloroethane	UG/L	10 U	NA	NA	10 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	NA	NA	10 U	9 U
Isophorone	UG/L	10 U	NA	NA	10 U	9 U
Naphthalene	UG/L	10 U	NA	NA	10 U	9 U
Nitrobenzene	UG/L	10 U	NA	NA	10 U	9 U
N-Nitroso-di-n-propylamine	UG/L	10 U	NA	NA	10 U	9 U
N-Nitrosodiphenylamine	UG/L	10 U	NA	NA	10 U	9 U
Pentachlorophenol	UG/L	48 U	NA	NA	50 U	47 U
Phenanthrene	UG/L	10 U	NA	NA	10 U	9 U
Phenol	UG/L	10 U	NA	NA	10 U	9 U
Pyrene	UG/L	10 U	NA	NA	10 U	9 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	10/08/03	10/09/03	10/15/03	10/14/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	R	NA	NA	0.050 U
4,4-DDE	UG/L	0.050 U	R	NA	NA	0.050 U
4,4-DDT	UG/L	0.050 U	R	NA	NA	0.050 U
Aldrin	UG/L	0.050 U	R	NA	NA	0.050 U
alpha-BHC	UG/L	0.050 U	R	NA	NA	0.050 U
alpha-Chlordane	UG/L	0.50 U	R	NA	NA	0.50 U
beta-BHC	UG/L	0.050 U	R	NA	NA	0.050 U
delta-BHC	UG/L	0.050 U	R	NA	NA	0.050 U
Dieldrin	UG/L	0.050 U	R	NA	NA	0.050 U
Endosulfan I	UG/L	0.050 U	R	NA	NA	0.050 U
Endosulfan II	UG/L	0.050 U	R	NA	NA	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	R	NA	NA	0.050 U
Endrin	UG/L	0.050 U	R	NA	NA	0.050 U
Endrin aldehyde	UG/L	0.050 U	R	NA	NA	R
Endrin ketone	UG/L	0.050 U	R	NA	NA	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	R	NA	NA	0.050 U
gamma-Chlordane	UG/L	0.50 U	R	NA	NA	0.50 U
Heptachlor	UG/L	0.050 U	R	NA	NA	0.050 U
Heptachlor epoxide	UG/L	0.050 U	R	NA	NA	0.050 U
Methoxychlor	UG/L	0.050 U	R	NA	NA	0.050 U
Toxaphene	UG/L	1.0 U	R	NA	NA	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	0.48 U	NA	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	10/08/03	10/09/03	10/15/03	10/14/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	0.48 U	NA	0.48 U
Aroclor 1232	UG/L	NA	NA	0.48 U	NA	0.48 U
Aroclor 1242	UG/L	NA	NA	0.48 U	NA	0.48 U
Aroclor 1248	UG/L	NA	NA	0.48 U	NA	0.48 U
Aroclor 1254	UG/L	NA	NA	0.48 U	NA	0.48 U
Aroclor 1260	UG/L	NA	NA	0.48 U	NA	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	3.0 U	NA	2.1 U
Metals						
Arsenic	UG/L	10.0 UJ	10.0 U	NA	NA	30.7 J
Cadmium	UG/L	1.0 U	1.0 U	NA	NA	1.0 U
Calcium	UG/L	556,000 J	208,000	NA	NA	57,100
Lead	UG/L	10.7 J	6.0 U	NA	NA	6.0 UJ
Magnesium	UG/L	61,800	66,500	NA	NA	142,000
Mercury	UG/L	0.200 U	0.200 UJ	NA	NA	0.200 UJ
Potassium	UG/L	9,950	5,410 J	NA	NA	12,000
Sodium	UG/L	430,000	31,200	NA	NA	71,700
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	255 J	NA	NA	429
Alkalinity, Total (as CaCO3)	MG/L	NA	255 J	NA	NA	429
Chloride	MG/L	NA	21.4	NA	NA	730 J
Hardness	MG/L	1,830	900	NA	NA	3,800
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	10/08/03	10/09/03	10/15/03	10/14/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	449	NA	NA	1,500 J
Total Dissolved Solids	MG/L	NA	1,180	NA	NA	4,320
Total Organic Carbon (TOC)	MG/L	2.4	1.6	NA	NA	2.4
Total Suspended Solids	MG/L	NA	112	NA	NA	31.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	230,000 J	NA	NA	NA
Total Coliform	C/100 ML	NA	20 UJ	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Sample ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	10/07/03	10/06/03	10/06/03	10/07/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	5.0 U	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	5.0 U	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	5.0 U	0.50 J	0.46 J	2.1
1,2-Dichloroethene (trans)	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	0.32 J
1,2-Dichloropropane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	0.37 J
1,3-Dichloropropene (cis)	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	0.30 J
2-Hexanone	UG/L	5.0 U	25 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	25 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.44 J	160	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Sample ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	10/07/03	10/06/03	10/06/03	10/07/03
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.1 J	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	8.5	37	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	8.8	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	5.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	3.1	8.7	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	130	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	90	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.6

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Sample ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	10/07/03	10/06/03	10/06/03	10/07/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	5.0 U	1.0 U	0.91 J	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9 U	10 U	10 U	10 U	9 U
2,4,5-Trichlorophenol	UG/L	9 U	10 U	10 U	10 U	9 U
2,4,6-Trichlorophenol	UG/L	9 U	10 U	10 U	10 U	9 U
2,4-Dichlorophenol	UG/L	9 U	10 U	10 U	10 U	9 U
2,4-Dimethylphenol	UG/L	9 U	3 J	10 U	10 U	9 U
2,4-Dinitrophenol	UG/L	47 U	48 U	52 U	52 U	47 U
2,4-Dinitrotoluene	UG/L	9 U	10 U	10 U	10 U	9 U
2,6-Dinitrotoluene	UG/L	9 U	10 U	10 U	10 U	9 U
2-Chloronaphthalene	UG/L	9 U	10 U	10 U	10 U	9 U
2-Chlorophenol	UG/L	9 U	10 U	10 U	10 U	9 U
2-Methylnaphthalene	UG/L	9 U	10 U	10 U	10 U	9 U
2-Methylphenol (o-cresol)	UG/L	9 U	5 J	10 U	10 U	9 U
2-Nitroaniline	UG/L	47 U	48 U	52 U	52 U	47 U
2-Nitrophenol	UG/L	9 U	10 U	10 U	10 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	21 U	21 U	19 U
3-Nitroaniline	UG/L	47 U	48 U	52 U	52 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	48 U	52 U	52 U	47 U
4-Bromophenyl-phenylether	UG/L	9 U	10 U	10 U	10 U	9 U
4-Chloro-3-methylphenol	UG/L	9 U	10 U	10 U	10 U	9 U
4-Chloroaniline	UG/L	9 U	10 U	10 U	10 U	9 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Sample ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	10/07/03	10/06/03	10/06/03	10/07/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	9 U	10 U	10 U	10 U	9 U
4-Methylphenol (p-cresol)	UG/L	9 U	7 J	10 U	10 U	9 U
4-Nitroaniline	UG/L	47 U	48 U	52 U	52 U	47 U
4-Nitrophenol	UG/L	47 U	48 U	52 U	52 U	47 U
Acenaphthene	UG/L	9 U	10 U	10 U	10 U	9 U
Acenaphthylene	UG/L	9 U	10 U	10 U	10 U	9 U
Acetophenone	UG/L	9 U	10 U	10 U	10 U	9 U
Anthracene	UG/L	9 U	10 U	10 U	10 U	9 U
Atrazine	UG/L	9 U	10 U	10 U	10 U	9 U
Benzaldehyde	UG/L	47 U	48 UJ	52 UJ	52 UJ	47 UJ
Benzo(a)anthracene	UG/L	9 U	10 U	10 U	10 U	9 U
Benzo(a)pyrene	UG/L	9 U	10 U	10 U	10 U	9 U
Benzo(b)fluoranthene	UG/L	9 U	10 U	10 U	10 U	9 U
Benzo(g,h,i)perylene	UG/L	9 U	10 U	10 U	10 U	9 U
Benzo(k)fluoranthene	UG/L	9 U	10 U	10 U	10 U	9 U
bis(2-Chloroethoxy)methane	UG/L	9 U	10 U	10 U	10 U	9 U
bis(2-Chloroethyl)ether	UG/L	9 U	10 U	10 U	10 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	10 U	10 U	10 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	10 U	10 U	10 U	9 U
Butylbenzylphthalate	UG/L	9 U	10 U	10 U	10 U	9 U
Caprolactam	UG/L	9 U	10 UJ	10 UJ	10 UJ	9 UJ
Carbazole	UG/L	9 U	10 U	10 U	10 U	9 U
Chrysene	UG/L	9 U	10 U	10 U	10 U	9 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Sample ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	10/07/03	10/06/03	10/06/03	10/07/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	9 U	10 U	10 U	10 U	9 U
Dibenzofuran	UG/L	9 U	10 U	10 U	10 U	9 U
Diethylphthalate	UG/L	9 U	10 U	10 U	10 U	9 U
Dimethylphthalate	UG/L	9 U	10 U	10 U	10 U	9 U
Di-n-butylphthalate	UG/L	9 U	10 U	10 U	10 U	9 U
Di-n-octylphthalate	UG/L	9 U	10 U	10 U	10 U	8 J
Fluoranthene	UG/L	9 U	10 U	10 U	10 U	9 U
Fluorene	UG/L	9 U	10 U	10 U	10 U	9 U
Hexachlorobenzene	UG/L	9 U	10 U	10 U	10 U	9 U
Hexachlorobutadiene	UG/L	9 U	10 U	10 U	10 U	9 U
Hexachlorocyclopentadiene	UG/L	22 U	22 U	25 U	25 U	22 U
Hexachloroethane	UG/L	9 U	10 U	10 U	10 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	10 U	10 U	10 U	9 U
Isophorone	UG/L	9 U	10 U	10 U	10 U	9 U
Naphthalene	UG/L	9 U	10 U	10 U	10 U	9 U
Nitrobenzene	UG/L	9 U	10 U	10 U	10 U	9 U
N-Nitroso-di-n-propylamine	UG/L	9 U	10 U	10 U	10 U	9 U
N-Nitrosodiphenylamine	UG/L	9 U	10 U	10 U	10 U	9 U
Pentachlorophenol	UG/L	47 U	48 U	52 U	52 U	47 U
Phenanthrene	UG/L	9 U	10 U	10 U	10 U	9 U
Phenol	UG/L	9 U	12	10 U	10 U	9 U
Pyrene	UG/L	9 U	10 U	10 U	10 U	9 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Sample ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	10/07/03	10/06/03	10/06/03	10/07/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	NA	0.050 U	0.052 U	0.050 U	0.050 U
4,4-DDE	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.027 J
alpha-Chlordane	UG/L	NA	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	NA	R	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	NA	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	NA	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	0.48 U	0.54 U	0.50 U	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Sample ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	10/07/03	10/06/03	10/06/03	10/07/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	0.48 U	0.54 U	0.50 U	0.48 U
Aroclor 1232	UG/L	NA	0.48 U	0.54 U	0.50 U	0.48 U
Aroclor 1242	UG/L	NA	0.48 U	0.54 U	0.50 U	0.48 U
Aroclor 1248	UG/L	NA	0.48 U	0.54 U	0.50 U	0.48 U
Aroclor 1254	UG/L	NA	0.48 U	0.54 U	0.50 U	0.48 U
Aroclor 1260	UG/L	NA	0.48 U	0.54 U	0.50 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	3.2 U	2.3 U	3.9 U	2.3 U
Metals						
Arsenic	UG/L	10.0 UJ	20.2	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	1,940,000	13,500,000	214,000	326,000	114,000
Lead	UG/L	12.8 J	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	545,000	4,370,000	55,400	51,000	11,100
Mercury	UG/L	NA	0.200 UJ	0.200 U	0.200 U	0.200 U
Potassium	UG/L	79,500 J	458,000	5,130	7,980	1,940
Sodium	UG/L	5,180,000	34,900,000	111,000	78,400	15,300
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	164	70.8	259	266	89.1
Alkalinity, Total (as CaCO3)	MG/L	164	70.8	259	266	89.1
Chloride	MG/L	NA	90,500	226	155	32.9
Hardness	MG/L	9,000	60,700	945	1,520	388
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Sample ID		GW03-014A-P2	GW03-014A-P3	GW03-014B-P4	GW03-014B-P5	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	10/07/03	10/06/03	10/06/03	10/07/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	1,050	434	669	265
Total Dissolved Solids	MG/L	NA	176,000	1,260	1,620	772
Total Organic Carbon (TOC)	MG/L	NA	1.0 U	1.6	2.2	1.0 U
Total Suspended Solids	MG/L	NA	11.0	4.0 U	5.0	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	1 U	140	170	17 J
Total Coliform	C/100 ML	NA	20 U	20 U	20 U	60

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Sample ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/03/03	10/13/03	10/14/03	10/03/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 UJ	5.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	R	R	5.0 U	1.0 U	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	0.65 J	5.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	25 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	130 J	R
Benzene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Sample ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/03/03	10/13/03	10/14/03	10/03/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 UJ	1.0 U	5.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	5.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	3.6 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	5.0 U	1.4	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	R	12	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	5.0 U	0.50 J	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	15 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	0.80 J	5.0 U	1.0 U	1.0 U

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TABLE 2
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Sample ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/03/03	10/13/03	10/14/03	10/03/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	NA	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dinitrophenol	UG/L	52 U	48 U	48 U	NA	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	NA	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	NA	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	NA	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	NA	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	NA	10 U
2-Nitroaniline	UG/L	52 U	48 U	48 U	NA	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	NA	10 U
3,3-Dichlorobenzidine	UG/L	21 U	19 U	19 U	NA	19 U
3-Nitroaniline	UG/L	52 U	48 U	48 U	NA	48 U
4,6-Dinitro-2-methylphenol	UG/L	52 U	48 U	48 U	NA	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	NA	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	NA	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	NA	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Sample ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/03/03	10/13/03	10/14/03	10/03/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	NA	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	NA	10 U
4-Nitroaniline	UG/L	52 U	48 U	48 U	NA	48 U
4-Nitrophenol	UG/L	52 U	48 U	48 U	NA	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	NA	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	NA	10 U
Acetophenone	UG/L	10 U	10 U	10 U	NA	10 U
Anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Atrazine	UG/L	10 U	10 U	10 U	NA	10 U
Benzaldehyde	UG/L	52 UJ	48 U	48 U	NA	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	NA	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Caprolactam	UG/L	10 UJ	10 U	10 U	NA	10 U
Carbazole	UG/L	10 U	10 U	10 U	NA	10 U
Chrysene	UG/L	10 U	10 U	10 U	NA	10 U

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NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Sample ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/03/03	10/13/03	10/14/03	10/03/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	NA	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
Fluorene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorocyclopentadiene	UG/L	25 U	23 U	22 U	NA	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	NA	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	NA	10 U
Isophorone	UG/L	10 U	10 U	10 U	NA	10 U
Naphthalene	UG/L	10 U	10 U	2 J	NA	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	NA	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	NA	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	NA	10 U
Pentachlorophenol	UG/L	52 U	48 U	48 U	NA	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	NA	10 U
Phenol	UG/L	10 U	10 U	21	NA	10 U
Pyrene	UG/L	10 U	10 U	10 U	NA	10 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Sample ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/03/03	10/13/03	10/14/03	10/03/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.052 U	0.050 U	0.050 U	NA	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	NA	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	R	NA	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	NA	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	NA	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.52 U	0.48 U	0.47 U	NA	0.54 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Sample ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/03/03	10/13/03	10/14/03	10/03/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.52 U	0.48 U	0.47 U	NA	0.54 U
Aroclor 1232	UG/L	0.52 U	0.48 U	0.47 U	NA	0.54 U
Aroclor 1242	UG/L	0.52 U	0.44 J	0.47 U	NA	0.54 U
Aroclor 1248	UG/L	0.52 U	0.48 U	0.47 U	NA	0.54 U
Aroclor 1254	UG/L	0.52 U	0.48 U	0.47 U	NA	0.54 U
Aroclor 1260	UG/L	0.52 U	0.48 U	0.47 U	NA	0.54 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	3.7 U	2.5 U	2.6 U	NA	2.0 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	NA	10.0 U
Cadmium	UG/L	1.1	1.0 U	1.0 U	NA	1.0 U
Calcium	UG/L	124,000	55,400	2,940,000	NA	231,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	NA	6.0 U
Magnesium	UG/L	26,200	10,300	822,000 J	NA	54,800
Mercury	UG/L	0.200 U	0.200 U	0.200 U	NA	0.200 U
Potassium	UG/L	3,510	1,390	127,000	NA	3,750
Sodium	UG/L	232,000	19,600	7,540,000	NA	110,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	180	100	184	NA	285
Alkalinity, Total (as CaCO3)	MG/L	180	100	184	NA	285
Chloride	MG/L	253	21.8	21,100 J	NA	202
Hardness	MG/L	597	269	12,300	NA	995
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Sample ID		GW03-014C-P7	GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/03/03	10/13/03	10/14/03	10/03/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	237	79.1	962 J	NA	415
Total Dissolved Solids	MG/L	1,060	249	31,400	NA	1,290
Total Organic Carbon (TOC)	MG/L	1.7	1.0 U	1.0 U	NA	1.8
Total Suspended Solids	MG/L	4.0 U	4.0 U	16.0	NA	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	640	1,600	16,000	NA	540 J
Total Coliform	C/100 ML	300	280	20	NA	20 U

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Checked By_AMK 1/22/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Sample ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/02/03	09/29/03	09/30/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	R	R	1.0 U	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.6
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.2	5.8	1.1
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	3.4
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	9.1
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	0.53 J	1.0	0.91 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Sample ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/02/03	09/29/03	09/30/03
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	0.34 J	1.0 U	17
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	0.96 J	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	R	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	0.40 J	1.0 U	5.4	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	0.37 J	0.60 J	0.37 J	11	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Sample ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/02/03	09/29/03	09/30/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	2.3	0.61	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	9 U	9 U	10 U	9 U
2,4,5-Trichlorophenol	UG/L	10 U	9 U	9 U	10 U	9 U
2,4,6-Trichlorophenol	UG/L	10 U	9 U	9 U	10 U	9 U
2,4-Dichlorophenol	UG/L	10 U	9 U	9 U	10 U	9 U
2,4-Dimethylphenol	UG/L	10 U	9 U	9 U	10 U	9 U
2,4-Dinitrophenol	UG/L	48 U	47 U	47 U	48 U	47 UJ
2,4-Dinitrotoluene	UG/L	10 U	9 U	9 U	10 U	9 U
2,6-Dinitrotoluene	UG/L	10 U	9 U	9 U	10 U	9 U
2-Chloronaphthalene	UG/L	10 U	9 U	9 U	10 U	9 U
2-Chlorophenol	UG/L	10 U	9 U	9 U	10 U	9 U
2-Methylnaphthalene	UG/L	10 U	9 U	9 U	10 U	9 U
2-Methylphenol (o-cresol)	UG/L	10 U	9 U	9 U	10 U	9 U
2-Nitroaniline	UG/L	48 U	47 U	47 U	48 U	47 U
2-Nitrophenol	UG/L	10 U	9 U	9 U	10 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	48 U	47 U	47 U	48 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	47 U	47 U	48 U	47 U
4-Bromophenyl-phenylether	UG/L	10 U	9 U	9 U	10 U	9 U
4-Chloro-3-methylphenol	UG/L	10 U	9 U	9 U	10 U	9 U
4-Chloroaniline	UG/L	10 U	9 U	9 U	10 U	9 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Sample ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/02/03	09/29/03	09/30/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	9 U	9 U	10 U	9 U
4-Methylphenol (p-cresol)	UG/L	10 U	9 U	9 U	10 U	9 U
4-Nitroaniline	UG/L	48 U	47 U	47 U	48 U	47 U
4-Nitrophenol	UG/L	48 U	47 U	47 U	48 U	47 U
Acenaphthene	UG/L	10 U	9 U	9 U	10 U	9 U
Acenaphthylene	UG/L	10 U	9 U	9 U	10 U	9 U
Acetophenone	UG/L	10 U	9 U	9 U	10 U	9 U
Anthracene	UG/L	10 U	9 U	9 U	10 U	9 U
Atrazine	UG/L	10 U	9 U	9 U	10 U	9 U
Benzaldehyde	UG/L	48 UJ	47 UJ	47 U	48 U	47 U
Benzo(a)anthracene	UG/L	10 U	9 U	9 U	10 U	9 U
Benzo(a)pyrene	UG/L	10 U	9 U	9 U	10 U	9 U
Benzo(b)fluoranthene	UG/L	10 U	9 U	9 U	10 U	9 U
Benzo(g,h,i)perylene	UG/L	10 U	9 U	9 U	10 U	9 U
Benzo(k)fluoranthene	UG/L	10 U	9 U	9 U	10 U	9 U
bis(2-Chloroethoxy)methane	UG/L	10 U	9 U	9 U	10 U	9 U
bis(2-Chloroethyl)ether	UG/L	10 U	9 U	9 U	10 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	9 U	9 U	10 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	9 U	9 U	10 U	9 U
Butylbenzylphthalate	UG/L	10 U	9 U	9 U	10 U	9 U
Caprolactam	UG/L	10 UJ	9 UJ	9 U	10 U	9 U
Carbazole	UG/L	10 U	9 U	9 U	10 U	9 U
Chrysene	UG/L	10 U	9 U	9 U	10 U	9 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Sample ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/02/03	09/29/03	09/30/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	9 U	9 U	10 U	9 U
Dibenzofuran	UG/L	10 U	9 U	9 U	10 U	9 U
Diethylphthalate	UG/L	10 U	9 U	9 U	10 U	9 U
Dimethylphthalate	UG/L	10 U	9 U	9 U	10 U	9 U
Di-n-butylphthalate	UG/L	10 U	9 U	9 U	10 U	9 U
Di-n-octylphthalate	UG/L	10 U	9 U	9 U	10 U	9 U
Fluoranthene	UG/L	10 U	9 U	9 U	10 U	9 U
Fluorene	UG/L	10 U	9 U	9 U	10 U	9 U
Hexachlorobenzene	UG/L	10 U	9 U	9 U	10 U	9 U
Hexachlorobutadiene	UG/L	10 U	9 U	9 U	10 U	9 U
Hexachlorocyclopentadiene	UG/L	22 U	22 U	22 U	23 U	22 U
Hexachloroethane	UG/L	10 U	9 U	9 U	10 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	9 U	9 U	10 U	9 U
Isophorone	UG/L	10 U	9 U	9 U	10 U	9 U
Naphthalene	UG/L	10 U	9 U	9 U	10 U	9 U
Nitrobenzene	UG/L	10 U	9 U	9 U	10 U	9 U
N-Nitroso-di-n-propylamine	UG/L	10 U	9 U	9 U	10 U	9 U
N-Nitrosodiphenylamine	UG/L	10 U	9 U	9 U	10 U	9 U
Pentachlorophenol	UG/L	48 U	47 U	47 U	48 U	47 U
Phenanthrene	UG/L	10 U	9 U	9 U	10 U	9 U
Phenol	UG/L	10 U	9 U	9 U	10 U	9 U
Pyrene	UG/L	10 U	9 U	9 U	10 U	9 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Sample ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/02/03	09/29/03	09/30/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.066	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.47 U	0.48 U	0.48 U	0.47 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Sample ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/02/03	09/29/03	09/30/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1232	UG/L	0.48 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1242	UG/L	0.48 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1248	UG/L	0.48 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1254	UG/L	0.48 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1260	UG/L	0.48 U	0.47 U	0.48 U	0.48 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.3 U	2.9 U	2.9 U	1.9 U	2.7 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	114,000	53,400	66,000	66,200	396,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	22,100	11,400	16,500	9,880	14,200
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	3,980	2,050	1,970	2,190	4,670
Sodium	UG/L	36,500	28,600	16,700	19,300	27,800
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	151	80.7	116	102	102
Alkalinity, Total (as CaCO3)	MG/L	151	80.7	116	102	102
Chloride	MG/L	57.9	54.6	22.9	19.0	31.4
Hardness	MG/L	547	269	378	220	1,290
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Sample ID		GW03-015B-P5	GW03-015B-P6	GW03-015C-P7	GW03-016A-P1	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/02/03	09/29/03	09/30/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	213	56.5	194	102	788
Total Dissolved Solids	MG/L	554	309	319	326	1,460
Total Organic Carbon (TOC)	MG/L	1.0 U	1.0 U	1.0	1.0 UJ	1.0 U
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	110	380 J	140	3,100	240
Total Coliform	C/100 ML	70	220	40	40	20 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Sample ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	09/30/03	09/30/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	R	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	0.90 J	0.53 J	1.0 U	0.46 J	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	10	20	7.8	2.3	1.2
1,2-Dichloroethene (trans)	UG/L	1.9	0.49 J	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	0.29 J	1.4	1.0 U	0.79 J	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.2	1.5	1.0 U	1.3	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	43 D	21	8.4	0.96 J	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Sample ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	09/30/03	09/30/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.8	1.0 U	0.34 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	4.7	2.8	1.3	3.2	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	86 D	1.0 U	0.26 J	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	3.3	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	28	1.0 U	0.31 J	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.1	2.8	1.9	0.26 J	1.1
Toluene	UG/L	48 D	1.0 U	0.39 J	1.0 U	1.0 U
Total Xylenes	UG/L	30	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	5.9	5.6	5.4	0.90 J	2.0

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Sample ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	09/30/03	09/30/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	20	14	3.3	2.8	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	48 U	48 UJ	50 UJ	50 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	48 U	48 U	50 U	50 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	20 U	20 U
3-Nitroaniline	UG/L	48 U	48 U	48 U	50 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	48 U	48 U	50 U	50 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Sample ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	09/30/03	09/30/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	48 U	48 U	50 U	50 U
4-Nitrophenol	UG/L	48 U	48 U	48 U	50 U	50 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	48 U	48 U	48 U	50 U	50 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Sample ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	09/30/03	09/30/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	22 U	22 U	24 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	48 U	48 U	50 U	50 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Sample ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	09/30/03	09/30/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.054 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.042 J	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	R	0.050 U	R	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.49 U	0.49 U	0.48 U	0.53 U	0.48 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Sample ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	09/30/03	09/30/03
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.49 U	0.49 U	0.48 U	0.53 U	0.48 U
Aroclor 1232	UG/L	0.49 U	0.49 U	0.48 U	0.53 U	0.48 U
Aroclor 1242	UG/L	0.49 U	0.49 U	0.48 U	0.53 U	0.48 U
Aroclor 1248	UG/L	0.49 U	0.49 U	0.48 U	0.53 U	0.48 U
Aroclor 1254	UG/L	0.49 U	0.49 U	0.48 U	0.53 U	0.48 U
Aroclor 1260	UG/L	0.49 U	0.49 U	0.48 U	0.53 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.1 U	1.8 U	2.1 U	2.0 U	2.6 U
Metals						
Arsenic	UG/L	11.3	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	510,000	85,400	161,000	142,000	41,900
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	133,000	12,400	30,500	11,000	9,190
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	34,200	1,320	1,650	2,420	1,880
Sodium	UG/L	1,300,000	40,500	87,300	13,000	11,700
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	143	111	134	108	95.9
Alkalinity, Total (as CaCO3)	MG/L	143	111	134	108	95.9
Chloride	MG/L	2,710	23.5	45.5	19.0	17.6
Hardness	MG/L	1,950	388	706	547	308
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Sample ID		GW03-016A-P3	GW03-016B-P4	GW03-016B-P5	GW03-016B-P6	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/29/03	09/30/03	09/30/03	09/30/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	562	193	455	298	39.7
Total Dissolved Solids	MG/L	6,060	466	889	616	208
Total Organic Carbon (TOC)	MG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Total Suspended Solids	MG/L	13.0	4.0 U	6.0	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	350	4,100	8,000	1,200	61
Total Coliform	C/100 ML	20 U	100	20 U	80	30

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Sample ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/02/03	09/24/03	09/24/03	09/25/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	0.68 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	0.35 J	0.30 J	0.27 J	1.0 U
1,2,4-Trichlorobenzene	UG/L	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.3	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	7.7	130 D	92 D	30	4.1
1,2-Dichloroethene (trans)	UG/L	1.0 U	8.0	3.2	0.82 J	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	4.2	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	3.3	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Acetone	UG/L	R	R	24 J	R	R
Benzene	UG/L	4.4	3.0	1.7	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Sample ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/02/03	09/24/03	09/24/03	09/25/03
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	0.67 J	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	5.8	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	R
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	2.7	1.0 U	1.4	1.7	2.0
Toluene	UG/L	1.0 U	0.50 J	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	5.1	0.38 J	35	39	6.2

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Sample ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/02/03	09/24/03	09/24/03	09/25/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.3	180 D	24	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	11 U	9 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	11 U	9 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	11 U	9 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	11 U	9 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	11 U	9 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	54 U	47 U	48 U	48 U	50 UJ
2,4-Dinitrotoluene	UG/L	11 U	9 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	11 U	9 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	11 U	9 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	11 U	9 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	11 U	9 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	11 U	9 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	54 U	47 U	48 U	48 U	50 U
2-Nitrophenol	UG/L	11 U	9 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	22 U	19 U	19 U	19 U	20 U
3-Nitroaniline	UG/L	54 U	47 U	48 U	48 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	54 U	47 U	48 U	48 U	50 U
4-Bromophenyl-phenylether	UG/L	11 U	9 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	11 U	9 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	11 U	9 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Sample ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/02/03	09/24/03	09/24/03	09/25/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	11 U	9 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	11 U	9 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	54 U	47 U	48 U	48 U	50 U
4-Nitrophenol	UG/L	54 U	47 U	48 U	48 U	50 U
Acenaphthene	UG/L	11 U	9 U	10 U	10 U	10 U
Acenaphthylene	UG/L	11 U	9 U	10 U	10 U	10 U
Acetophenone	UG/L	11 U	9 U	10 U	10 U	10 U
Anthracene	UG/L	11 U	9 U	10 U	10 U	10 U
Atrazine	UG/L	11 U	9 U	10 U	10 U	10 U
Benzaldehyde	UG/L	54 U	47 U	48 U	48 U	50 U
Benzo(a)anthracene	UG/L	11 U	9 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	11 U	9 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	11 U	9 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	11 U	9 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	11 U	9 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	11 U	9 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	11 U	9 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	11 U	9 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	11 U	9 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	11 U	9 U	10 U	10 U	10 U
Caprolactam	UG/L	11 U	6 J	10 U	10 U	10 U
Carbazole	UG/L	11 U	9 U	10 U	10 U	10 U
Chrysene	UG/L	11 U	9 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Sample ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/02/03	09/24/03	09/24/03	09/25/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	11 U	9 U	10 U	10 U	10 U
Dibenzofuran	UG/L	11 U	9 U	10 U	10 U	10 U
Diethylphthalate	UG/L	11 U	9 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	11 U	9 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	11 U	9 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	11 U	9 U	10 U	10 U	10 U
Fluoranthene	UG/L	11 U	9 U	10 U	10 U	10 U
Fluorene	UG/L	11 U	9 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	11 U	9 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	11 U	9 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	26 U	22 U	22 U	22 U	24 U
Hexachloroethane	UG/L	11 U	9 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	11 U	9 U	10 U	10 U	10 U
Isophorone	UG/L	11 U	9 U	10 U	10 U	10 U
Naphthalene	UG/L	11 U	9 U	10 U	10 U	10 U
Nitrobenzene	UG/L	11 U	9 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	11 U	9 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	11 U	9 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	54 U	47 U	48 U	48 U	50 U
Phenanthrene	UG/L	11 U	9 U	10 U	10 U	10 U
Phenol	UG/L	11 U	3 J	10 U	10 U	10 U
Pyrene	UG/L	11 U	9 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Sample ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/02/03	09/24/03	09/24/03	09/25/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.051 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.026 J	0.029 J
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.054	0.050 U	0.050 U	0.031 J	0.079
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.49 U	0.47 U	0.48 U	0.48 U	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Sample ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/02/03	09/24/03	09/24/03	09/25/03
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.49 U	0.47 U	0.48 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.49 U	0.47 U	0.48 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.49 U	0.47 U	0.48 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.49 U	0.47 U	0.48 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.49 U	0.47 U	0.48 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.49 U	0.47 U	0.48 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	3.7 U	2.4 U	2.9 U	2.3 U	3.2 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	69,900	644,000	533,000	48,500	49,000
Lead	UG/L	6.0 U	23.6	6.0 UJ	6.0 U	6.0 U
Magnesium	UG/L	10,700	94,200	51,000	8,670	10,900
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 UJ	0.200 U
Potassium	UG/L	2,310	16,900	16,900	1,610	1,660
Sodium	UG/L	11,300	348,000 J	112,000	11,500	14,500
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	101	200	72.0	92.0	98.0
Alkalinity, Total (as CaCO3)	MG/L	101	200	72.0	92.0	98.0
Chloride	MG/L	17.6	605	74.3	17.8	21.6
Hardness	MG/L	318	2,030	1,700	257	197
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Sample ID		GW03-016C-P8	GW03-017A-P1	GW03-017A-P2	GW03-017B-P4	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	10/02/03	09/24/03	09/24/03	09/25/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	88.5	1,640	14,400	50.8	66.4
Total Dissolved Solids	MG/L	310	3,600	436	197	265
Total Organic Carbon (TOC)	MG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.6
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	55	500	310	580	760
Total Coliform	C/100 ML	20 U	20 U	20 U	170	70

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/25/03	09/24/03	09/24/03	10/02/03
Parameter	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.6	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	3.0	2.1	160 D	1.0
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	4.4	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	0.42 J	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	0.34 J	0.88 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/25/03	09/24/03	09/24/03	10/02/03
Parameter	**Units**				
Volatile Organic Compounds					
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.6
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	0.79 J
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	R	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	0.32 J
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.4	0.60 J	12	0.26 J
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.7
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	1.6 J
Trichloroethene	UG/L	3.0	1.6	130 D	1.1

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/25/03	09/24/03	09/24/03	10/02/03
Parameter	**Units**				
Volatile Organic Compounds					
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	16	1.0 U
Semivolatile Organic Compounds					
1,1-Biphenyl	UG/L	10 U	10 U	10 U	9 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	9 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	9 U
2,4-Dinitrophenol	UG/L	50 UJ	50 U	50 U	47 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	9 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	9 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	9 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	9 U
2-Nitroaniline	UG/L	50 U	50 U	50 U	47 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	9 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	20 U	19 U
3-Nitroaniline	UG/L	50 U	50 U	50 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	50 U	50 U	47 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	9 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	9 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/25/03	09/24/03	09/24/03	10/02/03
Parameter	Units				
Semivolatile Organic Compounds					
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	9 U
4-Nitroaniline	UG/L	50 U	50 U	50 U	47 U
4-Nitrophenol	UG/L	50 U	50 U	50 U	47 U
Acenaphthene	UG/L	10 U	10 U	10 U	9 U
Acenaphthylene	UG/L	10 U	10 U	10 U	9 U
Acetophenone	UG/L	10 U	10 U	10 U	9 U
Anthracene	UG/L	10 U	10 U	10 U	9 U
Atrazine	UG/L	10 U	10 U	10 U	9 U
Benzaldehyde	UG/L	50 U	50 U	50 U	47 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	9 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	9 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	9 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	9 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	9 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	9 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	9 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	9 U
Caprolactam	UG/L	10 U	10 U	10 U	9 U
Carbazole	UG/L	10 U	10 U	10 U	9 U
Chrysene	UG/L	10 U	10 U	10 U	9 U

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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/25/03	09/24/03	09/24/03	10/02/03
Parameter	**Units**				
Semivolatile Organic Compounds					
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	9 U
Dibenzofuran	UG/L	10 U	10 U	10 U	9 U
Diethylphthalate	UG/L	10 U	10 U	10 U	9 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	9 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	9 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	9 U
Fluoranthene	UG/L	10 U	10 U	10 U	9 U
Fluorene	UG/L	10 U	10 U	10 U	9 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	9 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	9 U
Hexachlorocyclopentadiene	UG/L	24 U	24 U	24 U	22 U
Hexachloroethane	UG/L	10 U	10 U	10 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	9 U
Isophorone	UG/L	10 U	10 U	10 U	9 U
Naphthalene	UG/L	10 U	10 U	10 U	9 U
Nitrobenzene	UG/L	10 U	10 U	10 U	9 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	9 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	9 U
Pentachlorophenol	UG/L	50 U	50 U	50 U	47 U
Phenanthrene	UG/L	10 U	10 U	10 U	9 U
Phenol	UG/L	10 U	10 U	10 U	13
Pyrene	UG/L	10 U	10 U	10 U	9 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/25/03	09/24/03	09/24/03	10/02/03
Parameter	Units				
Pesticides					
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.034 J	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
beta-BHC	UG/L	0.090	0.026 J	0.029 J	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan Sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.50 U	0.50 U	0.50 U	0.50 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls					
Aroclor 1016	UG/L	0.48 U	0.50 U	0.53 U	0.47 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/25/03	09/24/03	09/24/03	10/02/03
Parameter	**Units**				
Polychlorinated Biphenyls					
Aroclor 1221	UG/L	0.48 U	0.50 U	0.53 U	0.47 U
Aroclor 1232	UG/L	0.48 U	0.50 U	0.53 U	0.47 U
Aroclor 1242	UG/L	0.48 U	0.50 U	0.53 U	0.47 U
Aroclor 1248	UG/L	0.48 U	0.50 U	0.53 U	0.47 U
Aroclor 1254	UG/L	0.48 U	0.50 U	0.53 U	0.47 U
Aroclor 1260	UG/L	0.48 U	0.50 U	0.53 U	0.47 U
Dioxins & Furans					
2,3,7,8-TCDD	PG/L	4.2 U	4.3 U	5.7 U	2.4 U
Metals					
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	44,700	65,700	60,200	614,000
Lead	UG/L	6.0 U	6.0 U	6.0 UJ	6.0 U
Magnesium	UG/L	9,970	11,000	11,600	116,000
Mercury	UG/L	0.200 U	0.200 UJ	0.200 U	0.200 U
Potassium	UG/L	1,890	2,590	2,530	8,910
Sodium	UG/L	12,800	13,500	16,200	360,000
Miscellaneous Parameters					
Alkalinity, Bicarbonate (as CaCO3)	MG/L	96.0	93.0	104	260
Alkalinity, Total (as CaCO3)	MG/L	96.0	93.0	104	260
Chloride	MG/L	20.0	18.4	22.8	518
Hardness	MG/L	222	274	342	2,550
Monomethyl Mercury	NG/L	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017B-P6	GW03-017C-P7	GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		09/25/03	09/24/03	09/24/03	10/02/03
Parameter	Units				
Miscellaneous Parameters					
Sulfate (as SO4)	MG/L	50.4	69.9	88.4	1,440
Total Dissolved Solids	MG/L	248	294	496	3,530
Total Organic Carbon (TOC)	MG/L	1.0	1.0 U	1.0 U	1.0 U
Total Suspended Solids	MG/L	5.0	4.0 U	4.0 U	9.0
Bacterial and Microbial Parameters					
Heterotrophic Plate Count	CFU/ML	350	1,900	13,000	870
Total Coliform	C/100 ML	160	680	20 U	20 U

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-09/24/03	TB2-9/24/03	TB1-9-25-03	TB2-9-25-03	TB1-9-26-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	09/24/03	09/25/03	09/25/03	09/26/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-09/24/03	TB2-9/24/03	TB1-9-25-03	TB2-9-25-03	TB1-9-26-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	09/24/03	09/25/03	09/25/03	09/26/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	R	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-09/24/03	TB2-9/24/03	TB1-9-25-03	TB2-9-25-03	TB1-9-26-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	09/24/03	09/25/03	09/25/03	09/26/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-09/24/03	TB2-9/24/03	TB1-9-25-03	TB2-9-25-03	TB1-9-26-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	09/24/03	09/25/03	09/25/03	09/26/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-09/24/03	TB2-9/24/03	TB1-9-25-03	TB2-9-25-03	TB1-9-26-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	09/24/03	09/25/03	09/25/03	09/26/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-09/24/03	TB2-9/24/03	TB1-9-25-03	TB2-9-25-03	TB1-9-26-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	09/24/03	09/25/03	09/25/03	09/26/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Pesticides						
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan Sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-09/24/03	TB2-9/24/03	TB1-9-25-03	TB2-9-25-03	TB1-9-26-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	09/24/03	09/25/03	09/25/03	09/26/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-09/24/03	TB2-9/24/03	TB1-9-25-03	TB2-9-25-03	TB1-9-26-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	09/24/03	09/25/03	09/25/03	09/26/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-9-26-03	TB1	TB2	TB3-9/29/03	TB4-9/29/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	09/29/03	09/29/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	R	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-9-26-03	TB1	TB2	TB3-9/29/03	TB4-9/29/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	09/29/03	09/29/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-9-26-03	TB1	TB2	TB3-9/29/03	TB4-9/29/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	09/29/03	09/29/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-9-26-03	TB1	TB2	TB3-9/29/03	TB4-9/29/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	09/29/03	09/29/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-9-26-03	TB1	TB2	TB3-9/29/03	TB4-9/29/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	09/29/03	09/29/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-9-26-03	TB1	TB2	TB3-9/29/03	TB4-9/29/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	09/29/03	09/29/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Pesticides						
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan Sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-9-26-03	TB1	TB2	TB3-9/29/03	TB4-9/29/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	09/29/03	09/29/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-9-26-03	TB1	TB2	TB3-9/29/03	TB4-9/29/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	09/29/03	09/29/03	09/29/03	09/29/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-9/29/03	TB3	TB4	TRIP BLANK	TB-10/1/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/30/03	09/30/03	09/30/03	10/01/03
Parameter	Units	Trip Blank (5-5)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-9/29/03	TB3	TB4	TRIP BLANK	TB-10/1/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/30/03	09/30/03	09/30/03	10/01/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-9/29/03	TB3	TB4	TRIP BLANK	TB-10/1/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/30/03	09/30/03	09/30/03	10/01/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-9/29/03	TB3	TB4	TRIP BLANK	TB-10/1/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/30/03	09/30/03	09/30/03	10/01/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-9/29/03	TB3	TB4	TRIP BLANK	TB-10/1/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/30/03	09/30/03	09/30/03	10/01/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA

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Sample ID		TB5-9/29/03	TB3	TB4	TRIP BLANK	TB-10/1/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/30/03	09/30/03	09/30/03	10/01/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Pesticides						
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan Sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA

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Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/30/03	09/30/03	09/30/03	10/01/03
Parameter	Units	Trip Blank (5-5)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA

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Sample ID		TB5-9/29/03	TB3	TB4	TRIP BLANK	TB-10/1/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	09/30/03	09/30/03	09/30/03	10/01/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10-1-03	TB1-10-2-03	TB2-10-2-03	TB3-10/2/03	TB4-10/2/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/02/03	10/02/03	10/02/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10-1-03	TB1-10-2-03	TB2-10-2-03	TB3-10/2/03	TB4-10/2/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/02/03	10/02/03	10/02/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10-1-03	TB1-10-2-03	TB2-10-2-03	TB3-10/2/03	TB4-10/2/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/02/03	10/02/03	10/02/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10-1-03	TB1-10-2-03	TB2-10-2-03	TB3-10/2/03	TB4-10/2/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/02/03	10/02/03	10/02/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10-1-03	TB1-10-2-03	TB2-10-2-03	TB3-10/2/03	TB4-10/2/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/02/03	10/02/03	10/02/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10-1-03	TB1-10-2-03	TB2-10-2-03	TB3-10/2/03	TB4-10/2/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/02/03	10/02/03	10/02/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Pesticides						
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan Sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10-1-03	TB1-10-2-03	TB2-10-2-03	TB3-10/2/03	TB4-10/2/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/02/03	10/02/03	10/02/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA

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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10-1-03	TB1-10-2-03	TB2-10-2-03	TB3-10/2/03	TB4-10/2/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	10/02/03	10/02/03	10/02/03	10/02/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		EB1-10/3/03	TB1-10/3/03	TB2-10/3/03	TB1-10/06/03	TB2-10/06/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/03/03	10/03/03	10/06/03	10/06/03
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		EB1-10/3/03	TB1-10/3/03	TB2-10/3/03	TB1-10/06/03	TB2-10/06/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/03/03	10/03/03	10/06/03	10/06/03
Parameter	**Units**	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		EB1-10/3/03	TB1-10/3/03	TB2-10/3/03	TB1-10/06/03	TB2-10/06/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/03/03	10/03/03	10/06/03	10/06/03
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	10 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	10 U	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	10 U	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	10 U	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	48 U	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	10 U	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	10 U	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	10 U	NA	NA	NA	NA
2-Chlorophenol	UG/L	10 U	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	10 U	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	10 U	NA	NA	NA	NA
2-Nitroaniline	UG/L	48 U	NA	NA	NA	NA
2-Nitrophenol	UG/L	10 U	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	19 U	NA	NA	NA	NA
3-Nitroaniline	UG/L	48 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	48 U	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	10 U	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	10 U	NA	NA	NA	NA
4-Chloroaniline	UG/L	10 U	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		EB1-10/3/03	TB1-10/3/03	TB2-10/3/03	TB1-10/06/03	TB2-10/06/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/03/03	10/03/03	10/06/03	10/06/03
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	10 U	NA	NA	NA	NA
4-Nitroaniline	UG/L	48 U	NA	NA	NA	NA
4-Nitrophenol	UG/L	48 U	NA	NA	NA	NA
Acenaphthene	UG/L	10 U	NA	NA	NA	NA
Acenaphthylene	UG/L	10 U	NA	NA	NA	NA
Acetophenone	UG/L	10 U	NA	NA	NA	NA
Anthracene	UG/L	10 U	NA	NA	NA	NA
Atrazine	UG/L	10 U	NA	NA	NA	NA
Benzaldehyde	UG/L	48 U	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	10 U	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	10 U	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	10 U	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	10 U	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	10 U	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	10 U	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	10 U	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	10 U	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	10 U	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	10 U	NA	NA	NA	NA
Caprolactam	UG/L	10 U	NA	NA	NA	NA
Chrysene	UG/L	10 U	NA	NA	NA	NA
Dibenz(a,h)anthracene	UG/L	10 U	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		EB1-10/3/03	TB1-10/3/03	TB2-10/3/03	TB1-10/06/03	TB2-10/06/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/03/03	10/03/03	10/06/03	10/06/03
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	10 U	NA	NA	NA	NA
Diethylphthalate	UG/L	10 U	NA	NA	NA	NA
Dimethylphthalate	UG/L	10 U	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	10 U	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	10 U	NA	NA	NA	NA
Fluoranthene	UG/L	10 U	NA	NA	NA	NA
Fluorene	UG/L	10 U	NA	NA	NA	NA
Hexachlorobenzene	UG/L	10 U	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	10 U	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	23 U	NA	NA	NA	NA
Hexachloroethane	UG/L	10 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	10 U	NA	NA	NA	NA
Isophorone	UG/L	10 U	NA	NA	NA	NA
Naphthalene	UG/L	10 U	NA	NA	NA	NA
Nitrobenzene	UG/L	10 U	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	10 U	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	10 U	NA	NA	NA	NA
Pentachlorophenol	UG/L	48 U	NA	NA	NA	NA
Phenanthrene	UG/L	10 U	NA	NA	NA	NA
Phenol	UG/L	10 U	NA	NA	NA	NA
Pyrene	UG/L	10 U	NA	NA	NA	NA
Pesticides						
4,4-DDD	UG/L	0.050 U	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		EB1-10/3/03	TB1-10/3/03	TB2-10/3/03	TB1-10/06/03	TB2-10/06/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/03/03	10/03/03	10/06/03	10/06/03
Parameter	**Units**	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Pesticides						
4,4-DDE	UG/L	0.050 U	NA	NA	NA	NA
4,4-DDT	UG/L	0.050 U	NA	NA	NA	NA
Aldrin	UG/L	0.050 U	NA	NA	NA	NA
alpha-BHC	UG/L	0.050 U	NA	NA	NA	NA
alpha-Chlordane	UG/L	0.50 U	NA	NA	NA	NA
beta-BHC	UG/L	0.050 U	NA	NA	NA	NA
delta-BHC	UG/L	0.050 U	NA	NA	NA	NA
Dieldrin	UG/L	0.050 U	NA	NA	NA	NA
Endosulfan I	UG/L	0.050 U	NA	NA	NA	NA
Endosulfan II	UG/L	0.050 U	NA	NA	NA	NA
Endosulfan Sulfate	UG/L	0.050 U	NA	NA	NA	NA
Endrin	UG/L	0.050 U	NA	NA	NA	NA
Endrin aldehyde	UG/L	0.050 U	NA	NA	NA	NA
Endrin ketone	UG/L	0.050 U	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	0.050 U	NA	NA	NA	NA
gamma-Chlordane	UG/L	0.50 U	NA	NA	NA	NA
Heptachlor	UG/L	0.050 U	NA	NA	NA	NA
Heptachlor epoxide	UG/L	0.050 U	NA	NA	NA	NA
Methoxychlor	UG/L	0.050 U	NA	NA	NA	NA
Toxaphene	UG/L	1.0 U	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	NA	NA	NA	NA
Aroclor 1221	UG/L	0.50 U	NA	NA	NA	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		EB1-10/3/03	TB1-10/3/03	TB2-10/3/03	TB1-10/06/03	TB2-10/06/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/03/03	10/03/03	10/06/03	10/06/03
Parameter	**Units**	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	0.50 U	NA	NA	NA	NA
Aroclor 1242	UG/L	0.50 U	NA	NA	NA	NA
Aroclor 1248	UG/L	0.50 U	NA	NA	NA	NA
Aroclor 1254	UG/L	0.50 U	NA	NA	NA	NA
Aroclor 1260	UG/L	0.50 U	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.8 U	NA	NA	NA	NA
Metals						
Arsenic	UG/L	10.0 U	NA	NA	NA	NA
Cadmium	UG/L	1.0 U	NA	NA	NA	NA
Calcium	UG/L	500 U	NA	NA	NA	NA
Lead	UG/L	6.0 U	NA	NA	NA	NA
Magnesium	UG/L	200 U	NA	NA	NA	NA
Mercury	UG/L	0.200 U	NA	NA	NA	NA
Potassium	UG/L	500 U	NA	NA	NA	NA
Sodium	UG/L	1,000 U	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	5.0 U	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	5.0 U	NA	NA	NA	NA
Chloride	MG/L	0.50 U	NA	NA	NA	NA
Hardness	MG/L	2.0 U	NA	NA	NA	NA
Monomethyl Mercury	NG/L	0.25 U	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	2.0 U	NA	NA	NA	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		EB1-10/3/03	TB1-10/3/03	TB2-10/3/03	TB1-10/06/03	TB2-10/06/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/03/03	10/03/03	10/06/03	10/06/03
Parameter	Units	Equipment Blank (1-1)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	10 U	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	1.0 U	NA	NA	NA	NA
Total Suspended Solids	MG/L	4.0 U	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	32000	NA	NA	NA	NA
Total Coliform	C/100 ML	20 U	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/6/03	TB4-10/6/03	TB5-10/6/03	TB1-10-7-03	TB4-10-7-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/06/03	10/07/03	10/07/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	R	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/6/03	TB4-10/6/03	TB5-10/6/03	TB1-10-7-03	TB4-10-7-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/06/03	10/07/03	10/07/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/6/03	TB4-10/6/03	TB5-10/6/03	TB1-10-7-03	TB4-10-7-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/06/03	10/07/03	10/07/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/6/03	TB4-10/6/03	TB5-10/6/03	TB1-10-7-03	TB4-10-7-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/06/03	10/07/03	10/07/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/6/03	TB4-10/6/03	TB5-10/6/03	TB1-10-7-03	TB4-10-7-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/06/03	10/07/03	10/07/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/6/03	TB4-10/6/03	TB5-10/6/03	TB1-10-7-03	TB4-10-7-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/06/03	10/07/03	10/07/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (1-1)	Trip Blank (2-2)
Pesticides						
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan Sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/6/03	TB4-10/6/03	TB5-10/6/03	TB1-10-7-03	TB4-10-7-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/06/03	10/07/03	10/07/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (1-1)	Trip Blank (2-2)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA

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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-10/6/03	TB4-10/6/03	TB5-10/6/03	TB1-10-7-03	TB4-10-7-03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	10/06/03	10/06/03	10/07/03	10/07/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (1-1)	Trip Blank (2-2)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-1-10-8-03	TB-2-10-8-03	TB3-10/8/03	TB5-10/8/03	TB6-10/8/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/08/03	10/08/03	10/08/03	10/08/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	R	R	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-1-10-8-03	TB-2-10-8-03	TB3-10/8/03	TB5-10/8/03	TB6-10/8/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/08/03	10/08/03	10/08/03	10/08/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-1-10-8-03	TB-2-10-8-03	TB3-10/8/03	TB5-10/8/03	TB6-10/8/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/08/03	10/08/03	10/08/03	10/08/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-1-10-8-03	TB-2-10-8-03	TB3-10/8/03	TB5-10/8/03	TB6-10/8/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/08/03	10/08/03	10/08/03	10/08/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (5-5)	Trip Blank (6-6)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA

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VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-1-10-8-03	TB-2-10-8-03	TB3-10/8/03	TB5-10/8/03	TB6-10/8/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/08/03	10/08/03	10/08/03	10/08/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (5-5)	Trip Blank (6-6)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-1-10-8-03	TB-2-10-8-03	TB3-10/8/03	TB5-10/8/03	TB6-10/8/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/08/03	10/08/03	10/08/03	10/08/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (5-5)	Trip Blank (6-6)
Pesticides						
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan Sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA
Aroclor 1221	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-1-10-8-03	TB-2-10-8-03	TB3-10/8/03	TB5-10/8/03	TB6-10/8/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/08/03	10/08/03	10/08/03	10/08/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (5-5)	Trip Blank (6-6)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-1-10-8-03	TB-2-10-8-03	TB3-10/8/03	TB5-10/8/03	TB6-10/8/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/08/03	10/08/03	10/08/03	10/08/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (5-5)	Trip Blank (6-6)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10/9/03	TB3-10/9/03	TB4-10/9/03	EB1-10/10/03	TB1-10/10/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/09/03	10/09/03	10/10/03	10/10/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	1.0 U	1.0 U	R	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10/9/03	TB3-10/9/03	TB4-10/9/03	EB1-10/10/03	TB1-10/10/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/09/03	10/09/03	10/10/03	10/10/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	0.22 J	0.41 J
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	R	R	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10/9/03	TB3-10/9/03	TB4-10/9/03	EB1-10/10/03	TB1-10/10/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/09/03	10/09/03	10/10/03	10/10/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	10 U	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	48 U	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	10 U	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	10 U	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	10 U	NA
2-Chlorophenol	UG/L	NA	NA	NA	10 U	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	10 U	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	10 U	NA
2-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
2-Nitrophenol	UG/L	NA	NA	NA	10 U	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	19 U	NA
3-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	48 U	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	10 U	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	10 U	NA
4-Chloroaniline	UG/L	NA	NA	NA	10 U	NA

Flags assigned during chemistry validation are shown.

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Checked By_AMK 1/22/04_

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10/9/03	TB3-10/9/03	TB4-10/9/03	EB1-10/10/03	TB1-10/10/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/09/03	10/09/03	10/10/03	10/10/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	10 U	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	10 U	NA
4-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
4-Nitrophenol	UG/L	NA	NA	NA	48 U	NA
Acenaphthene	UG/L	NA	NA	NA	10 U	NA
Acenaphthylene	UG/L	NA	NA	NA	10 U	NA
Acetophenone	UG/L	NA	NA	NA	10 U	NA
Anthracene	UG/L	NA	NA	NA	10 U	NA
Atrazine	UG/L	NA	NA	NA	10 U	NA
Benzaldehyde	UG/L	NA	NA	NA	48 U	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	10 U	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	10 U	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	10 U	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	10 U	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	10 U	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	10 U	NA
Caprolactam	UG/L	NA	NA	NA	10 U	NA
Chrysene	UG/L	NA	NA	NA	10 U	NA
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10/9/03	TB3-10/9/03	TB4-10/9/03	EB1-10/10/03	TB1-10/10/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/09/03	10/09/03	10/10/03	10/10/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	NA	NA	NA	10 U	NA
Diethylphthalate	UG/L	NA	NA	NA	10 U	NA
Dimethylphthalate	UG/L	NA	NA	NA	10 U	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	10 U	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	10 U	NA
Fluoranthene	UG/L	NA	NA	NA	10 U	NA
Fluorene	UG/L	NA	NA	NA	10 U	NA
Hexachlorobenzene	UG/L	NA	NA	NA	10 U	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	10 U	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	22 U	NA
Hexachloroethane	UG/L	NA	NA	NA	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	10 U	NA
Isophorone	UG/L	NA	NA	NA	10 U	NA
Naphthalene	UG/L	NA	NA	NA	10 U	NA
Nitrobenzene	UG/L	NA	NA	NA	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	10 U	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	10 U	NA
Pentachlorophenol	UG/L	NA	NA	NA	48 U	NA
Phenanthrene	UG/L	NA	NA	NA	10 U	NA
Phenol	UG/L	NA	NA	NA	10 U	NA
Pyrene	UG/L	NA	NA	NA	10 U	NA
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	0.050 U	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10/9/03	TB3-10/9/03	TB4-10/9/03	EB1-10/10/03	TB1-10/10/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/09/03	10/09/03	10/10/03	10/10/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Pesticides						
4,4-DDE	UG/L	NA	NA	NA	0.050 U	NA
4,4-DDT	UG/L	NA	NA	NA	0.050 U	NA
Aldrin	UG/L	NA	NA	NA	0.050 U	NA
alpha-BHC	UG/L	NA	NA	NA	0.050 U	NA
alpha-Chlordane	UG/L	NA	NA	NA	0.50 U	NA
beta-BHC	UG/L	NA	NA	NA	0.050 U	NA
delta-BHC	UG/L	NA	NA	NA	0.050 U	NA
Dieldrin	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan I	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan II	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan Sulfate	UG/L	NA	NA	NA	0.050 U	NA
Endrin	UG/L	NA	NA	NA	0.050 U	NA
Endrin aldehyde	UG/L	NA	NA	NA	0.050 U	NA
Endrin ketone	UG/L	NA	NA	NA	0.050 U	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	0.050 U	NA
gamma-Chlordane	UG/L	NA	NA	NA	0.50 U	NA
Heptachlor	UG/L	NA	NA	NA	0.050 U	NA
Heptachlor epoxide	UG/L	NA	NA	NA	0.050 U	NA
Methoxychlor	UG/L	NA	NA	NA	0.050 U	NA
Toxaphene	UG/L	NA	NA	NA	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	0.48 U	NA
Aroclor 1221	UG/L	NA	NA	NA	0.48 U	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10/9/03	TB3-10/9/03	TB4-10/9/03	EB1-10/10/03	TB1-10/10/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/09/03	10/09/03	10/10/03	10/10/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	NA	NA	NA	0.48 U	NA
Aroclor 1242	UG/L	NA	NA	NA	0.48 U	NA
Aroclor 1248	UG/L	NA	NA	NA	0.48 U	NA
Aroclor 1254	UG/L	NA	NA	NA	0.48 U	NA
Aroclor 1260	UG/L	NA	NA	NA	0.48 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	5.3 U	NA
Metals						
Arsenic	UG/L	NA	NA	NA	10.0 UJ	NA
Cadmium	UG/L	NA	NA	NA	1.0 U	NA
Calcium	UG/L	NA	NA	NA	500 U	NA
Lead	UG/L	NA	NA	NA	6.0 U	NA
Magnesium	UG/L	NA	NA	NA	200 U	NA
Mercury	UG/L	NA	NA	NA	0.200 U	NA
Potassium	UG/L	NA	NA	NA	500 U	NA
Sodium	UG/L	NA	NA	NA	1,000 U	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	5.0 UJ	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	5.0 UJ	NA
Chloride	MG/L	NA	NA	NA	0.50 UJ	NA
Hardness	MG/L	NA	NA	NA	2.0 U	NA
Monomethyl Mercury	NG/L	NA	NA	NA	0.25 U	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	2.0 UJ	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-10/9/03	TB3-10/9/03	TB4-10/9/03	EB1-10/10/03	TB1-10/10/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	10/09/03	10/09/03	10/10/03	10/10/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	NA	NA	NA	10 U	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	1.0 U	NA
Total Suspended Solids	MG/L	NA	NA	NA	4.0 U	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	53000	NA
Total Coliform	C/100 ML	NA	NA	NA	20 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-10/13/02	TB2-10/13/03	TB3-10/13/03	EB1-10/14/03	TB1-10/14/2003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-10/13/02	TB2-10/13/03	TB3-10/13/03	EB1-10/14/03	TB1-10/14/2003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	0.37 J	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	1.3 J	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 3
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Sample ID		TB1-10/13/02	TB2-10/13/03	TB3-10/13/03	EB1-10/14/03	TB1-10/14/2003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	10 U	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	50 U	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	10 U	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	10 U	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	10 U	NA
2-Chlorophenol	UG/L	NA	NA	NA	10 U	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	10 U	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	10 U	NA
2-Nitroaniline	UG/L	NA	NA	NA	50 U	NA
2-Nitrophenol	UG/L	NA	NA	NA	10 U	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	20 U	NA
3-Nitroaniline	UG/L	NA	NA	NA	50 U	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	50 U	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	10 U	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	10 U	NA
4-Chloroaniline	UG/L	NA	NA	NA	10 U	NA

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-10/13/02	TB2-10/13/03	TB3-10/13/03	EB1-10/14/03	TB1-10/14/2003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	10 U	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	10 U	NA
4-Nitroaniline	UG/L	NA	NA	NA	50 U	NA
4-Nitrophenol	UG/L	NA	NA	NA	50 U	NA
Acenaphthene	UG/L	NA	NA	NA	10 U	NA
Acenaphthylene	UG/L	NA	NA	NA	10 U	NA
Acetophenone	UG/L	NA	NA	NA	10 U	NA
Anthracene	UG/L	NA	NA	NA	10 U	NA
Atrazine	UG/L	NA	NA	NA	10 U	NA
Benzaldehyde	UG/L	NA	NA	NA	50 U	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	10 U	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	10 U	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	10 U	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	10 U	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	10 U	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	10 U	NA
Caprolactam	UG/L	NA	NA	NA	10 U	NA
Chrysene	UG/L	NA	NA	NA	10 U	NA
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-10/13/02	TB2-10/13/03	TB3-10/13/03	EB1-10/14/03	TB1-10/14/2003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenzofuran	UG/L	NA	NA	NA	10 U	NA
Diethylphthalate	UG/L	NA	NA	NA	10 U	NA
Dimethylphthalate	UG/L	NA	NA	NA	10 U	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	10 U	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	10 U	NA
Fluoranthene	UG/L	NA	NA	NA	10 U	NA
Fluorene	UG/L	NA	NA	NA	10 U	NA
Hexachlorobenzene	UG/L	NA	NA	NA	10 U	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	10 U	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	24 U	NA
Hexachloroethane	UG/L	NA	NA	NA	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	10 U	NA
Isophorone	UG/L	NA	NA	NA	10 U	NA
Naphthalene	UG/L	NA	NA	NA	10 U	NA
Nitrobenzene	UG/L	NA	NA	NA	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	10 U	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	10 U	NA
Pentachlorophenol	UG/L	NA	NA	NA	50 U	NA
Phenanthrene	UG/L	NA	NA	NA	10 U	NA
Phenol	UG/L	NA	NA	NA	10 U	NA
Pyrene	UG/L	NA	NA	NA	10 U	NA
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	0.052 U	NA

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TABLE 3
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SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-10/13/02	TB2-10/13/03	TB3-10/13/03	EB1-10/14/03	TB1-10/14/2003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Pesticides						
4,4-DDE	UG/L	NA	NA	NA	0.050 U	NA
4,4-DDT	UG/L	NA	NA	NA	0.050 U	NA
Aldrin	UG/L	NA	NA	NA	0.050 U	NA
alpha-BHC	UG/L	NA	NA	NA	0.050 U	NA
alpha-Chlordane	UG/L	NA	NA	NA	0.50 U	NA
beta-BHC	UG/L	NA	NA	NA	0.050 U	NA
delta-BHC	UG/L	NA	NA	NA	0.050 U	NA
Dieldrin	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan I	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan II	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan Sulfate	UG/L	NA	NA	NA	0.050 U	NA
Endrin	UG/L	NA	NA	NA	0.050 U	NA
Endrin aldehyde	UG/L	NA	NA	NA	0.050 U	NA
Endrin ketone	UG/L	NA	NA	NA	0.050 U	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	0.050 U	NA
gamma-Chlordane	UG/L	NA	NA	NA	0.50 U	NA
Heptachlor	UG/L	NA	NA	NA	0.050 U	NA
Heptachlor epoxide	UG/L	NA	NA	NA	0.050 U	NA
Methoxychlor	UG/L	NA	NA	NA	0.050 U	NA
Toxaphene	UG/L	NA	NA	NA	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1221	UG/L	NA	NA	NA	0.49 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-10/13/02	TB2-10/13/03	TB3-10/13/03	EB1-10/14/03	TB1-10/14/2003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1232	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1242	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1248	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1254	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1260	UG/L	NA	NA	NA	0.49 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	3.5 U	NA
Metals						
Arsenic	UG/L	NA	NA	NA	10.0 UJ	NA
Cadmium	UG/L	NA	NA	NA	1.0 U	NA
Calcium	UG/L	NA	NA	NA	3,540	NA
Lead	UG/L	NA	NA	NA	6.0 UJ	NA
Magnesium	UG/L	NA	NA	NA	901	NA
Mercury	UG/L	NA	NA	NA	0.200 UJ	NA
Potassium	UG/L	NA	NA	NA	500 U	NA
Sodium	UG/L	NA	NA	NA	1,640	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	5.0 U	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	5.0 U	NA
Chloride	MG/L	NA	NA	NA	1.3	NA
Hardness	MG/L	NA	NA	NA	2.0 U	NA
Monomethyl Mercury	NG/L	NA	NA	NA	0.25 U	NA
Sulfate (as SO4)	MG/L	NA	NA	NA	2.0 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-10/13/02	TB2-10/13/03	TB3-10/13/03	EB1-10/14/03	TB1-10/14/2003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	10/13/03	10/13/03	10/14/03	10/14/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Trip Blank (1-1)
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	NA	NA	NA	10 U	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	1.0 U	NA
Total Suspended Solids	MG/L	NA	NA	NA	4.0 U	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	990	NA
Total Coliform	C/100 ML	NA	NA	NA	20 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC
Sample ID		TB2-10/14/03	TB1-10/15/03
Matrix		Quality Control	Quality Control
Depth Interval (ft)		-	-
Date Sampled		10/14/03	10/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U
Acetone	UG/L	R	R
Benzene	UG/L	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC
Sample ID		TB2-10/14/03	TB1-10/15/03
Matrix		Quality Control	Quality Control
Depth Interval (ft)		-	-
Date Sampled		10/14/03	10/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds			
Bromoform	UG/L	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U
Methylene chloride	UG/L	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC
Sample ID		TB2-10/14/03	TB1-10/15/03
Matrix		Quality Control	Quality Control
Depth Interval (ft)		-	-
Date Sampled		10/14/03	10/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds			
Trichlorofluoromethane	UG/L	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U
Semivolatile Organic Compounds			
1,1-Biphenyl	UG/L	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA
2-Chloronaphthalene	UG/L	NA	NA
2-Chlorophenol	UG/L	NA	NA
2-Methylnaphthalene	UG/L	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA
2-Nitroaniline	UG/L	NA	NA
2-Nitrophenol	UG/L	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA
3-Nitroaniline	UG/L	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA
4-Chloroaniline	UG/L	NA	NA

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Sample ID		TB2-10/14/03	TB1-10/15/03
Matrix		Quality Control	Quality Control
Depth Interval (ft)		-	-
Date Sampled		10/14/03	10/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)
Semivolatile Organic Compounds			
4-Chlorophenyl-phenylether	UG/L	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA
4-Nitroaniline	UG/L	NA	NA
4-Nitrophenol	UG/L	NA	NA
Acenaphthene	UG/L	NA	NA
Acenaphthylene	UG/L	NA	NA
Acetophenone	UG/L	NA	NA
Anthracene	UG/L	NA	NA
Atrazine	UG/L	NA	NA
Benzaldehyde	UG/L	NA	NA
Benzo(a)anthracene	UG/L	NA	NA
Benzo(a)pyrene	UG/L	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA
Butylbenzylphthalate	UG/L	NA	NA
Caprolactam	UG/L	NA	NA
Chrysene	UG/L	NA	NA
Dibenz(a,h)anthracene	UG/L	NA	NA

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC
Sample ID		TB2-10/14/03	TB1-10/15/03
Matrix		Quality Control	Quality Control
Depth Interval (ft)		-	-
Date Sampled		10/14/03	10/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)
Semivolatile Organic Compounds			
Dibenzofuran	UG/L	NA	NA
Diethylphthalate	UG/L	NA	NA
Dimethylphthalate	UG/L	NA	NA
Di-n-butylphthalate	UG/L	NA	NA
Di-n-octylphthalate	UG/L	NA	NA
Fluoranthene	UG/L	NA	NA
Fluorene	UG/L	NA	NA
Hexachlorobenzene	UG/L	NA	NA
Hexachlorobutadiene	UG/L	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA
Hexachloroethane	UG/L	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA
Isophorone	UG/L	NA	NA
Naphthalene	UG/L	NA	NA
Nitrobenzene	UG/L	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA
Pentachlorophenol	UG/L	NA	NA
Phenanthrene	UG/L	NA	NA
Phenol	UG/L	NA	NA
Pyrene	UG/L	NA	NA
Pesticides			
4,4-DDD	UG/L	NA	NA

Flags assigned during chemistry validation are shown.

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC
Sample ID		TB2-10/14/03	TB1-10/15/03
Matrix		Quality Control	Quality Control
Depth Interval (ft)		-	-
Date Sampled		10/14/03	10/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)
Pesticides			
4,4-DDE	UG/L	NA	NA
4,4-DDT	UG/L	NA	NA
Aldrin	UG/L	NA	NA
alpha-BHC	UG/L	NA	NA
alpha-Chlordane	UG/L	NA	NA
beta-BHC	UG/L	NA	NA
delta-BHC	UG/L	NA	NA
Dieldrin	UG/L	NA	NA
Endosulfan I	UG/L	NA	NA
Endosulfan II	UG/L	NA	NA
Endosulfan Sulfate	UG/L	NA	NA
Endrin	UG/L	NA	NA
Endrin aldehyde	UG/L	NA	NA
Endrin ketone	UG/L	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA
gamma-Chlordane	UG/L	NA	NA
Heptachlor	UG/L	NA	NA
Heptachlor epoxide	UG/L	NA	NA
Methoxychlor	UG/L	NA	NA
Toxaphene	UG/L	NA	NA
Polychlorinated Biphenyls			
Aroclor 1016	UG/L	NA	NA
Aroclor 1221	UG/L	NA	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

Printed: 3/4/2004 2:27:28 PM
[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC
Sample ID		TB2-10/14/03	TB1-10/15/03
Matrix		Quality Control	Quality Control
Depth Interval (ft)		-	-
Date Sampled		10/14/03	10/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)
Polychlorinated Biphenyls			
Aroclor 1232	UG/L	NA	NA
Aroclor 1242	UG/L	NA	NA
Aroclor 1248	UG/L	NA	NA
Aroclor 1254	UG/L	NA	NA
Aroclor 1260	UG/L	NA	NA
Dioxins & Furans			
2,3,7,8-TCDD	PG/L	NA	NA
Metals			
Arsenic	UG/L	NA	NA
Cadmium	UG/L	NA	NA
Calcium	UG/L	NA	NA
Lead	UG/L	NA	NA
Magnesium	UG/L	NA	NA
Mercury	UG/L	NA	NA
Potassium	UG/L	NA	NA
Sodium	UG/L	NA	NA
Miscellaneous Parameters			
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA
Chloride	MG/L	NA	NA
Hardness	MG/L	NA	NA
Monomethyl Mercury	NG/L	NA	NA
Sulfate (as SO4)	MG/L	NA	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

Printed: 3/4/2004 2:27:29 PM
[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
SEPTEMBER-OCTOBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC
Sample ID		TB2-10/14/03	TB1-10/15/03
Matrix		Quality Control	Quality Control
Depth Interval (ft)		-	-
Date Sampled		10/14/03	10/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)
Miscellaneous Parameters			
Total Dissolved Solids	MG/L	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA
Total Suspended Solids	MG/L	NA	NA
Bacterial and Microbial Parameters			
Heterotrophic Plate Count	CFU/ML	NA	NA
Total Coliform	C/100 ML	NA	NA

Flags assigned during chemistry validation are shown.

Made By_JJL 1/22/04_
Checked By_AMK 1/22/04_

Detection Limits shown are PQL

Printed: 3/4/2004 2:27:29 PM
[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #9/24/2003# AND #10/28/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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ATTACHMENT A
DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT B
DEFINITIONS OF SAMPLE CONCENTRATION UNITS

PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.

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ATTACHMENT C
DOCUMENTATION SUPPORTING THE QUALIFICATION OF DATA

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. Moeller, M. Nemeth, J. Grady, T. Urban

LAB STL - BUFFALO

COOLER 1 of 3

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC's (40 mL VOA)	TOC (40 mL VOA-HCL)	TCL SVOC's (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCB's (1 L Amber)	Dioxin (2,3,7,8-TCDD) (1 L Amber)	Metals/ Total Hg (16 oz HDPE HNO3)	TDS/TSS/ Cl⁻, SO4⁻⁻ (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
GW03-017C-P7	9/24/03	1130	Grab	GW03-017C-P7	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-017C-P7	9/24/03	1130	Grab	GW03-017C-P7-MS	WG	19	3	2	2	2	1	2	1	1	MATRIX SPIKE	MS1	-	-	-
GW03-017C-P7	9/24/03	1130	Grab	GW03-017C-P7-MSD	WG	19	3	2	2	2	1	2	1	1	MATRIX SPIKE DUPLICATE	SD1	-	-	-
GW03-017B-P4	9/24/03	1145	Grab	GW03-017B-P4	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
FIELD QC	9/24/03	—	Grab	TB1-9/24/03	WG	2	2								TRIP BLANK	TB1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature] STL	9-24-03	1445
RELINQUISHED BY (SIGNATURE) [signature]	9/24/03	1400	RECEIVED FOR LAB BY (SIGNATURE) [signature]	DATE	TIME

SPECIAL INSTRUCTIONS: Samples shipped on ice.

Any questions, contact Jim Lehnen at 1-800-850-9230

All VOA vials packed in cooler #1 with Trip Blank

3c 24°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

171/2689

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. MOELLER, M. NEMETH, J GRADY, T. URBAN

LAB STL - BUFFALO

COOLER 1 of 3

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: N/A

TESTS: ALKALINITY (CARB/BICARB) | TOTAL HARDNESS | TOTAL COLIFORM HET. PLATE COUNT | METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE | 4 oz. HDPE HNO3 | 4 oz. HDPE Na2S2O3 | 12 oz. GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz. HDPE	4 oz. HDPE HNO3	4 oz. HDPE Na2S2O3	12 oz. GLASS					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017C-P7	9/24/03	1130	GRAB	GW03-017C-P7	WG	-	1	1	2	1						N1	-	-	-
GW03-017C-P7	9/24/03	1130	GRAB	GW03-017C-P7-MS	WG	-	1	1	2	1						MS1	-	-	-
GW03-017C-P7	9/24/03	1130	GRAB	GW03-017C-P7-MSD	WG	-	1	1	2	1						SD1	-	-	-
GW03-017B-P4	9/24/03	1145	GRAB	GW03-017B-P4	WG	-	1	1	2	1						N1	-	-	-
FIELD QC	9/24/03	→	Grab	TB1-9/24/03	WG											N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			STL	9-24-03	14:45
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	9/24/03	1400			

SPECIAL INSTRUCTIONS: *HOLD METHYL Hg SAMPLES.*

3e 2.4 °C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

172/2689

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) DAVID Cofield

LAB STL-Buffalo

COOLER 1 of 2

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxins (2,3,7,8 TCDD) (1L Amber)	Metals Total Hg (16oz HDPE -HNO3)	TDS/TSS Cl, SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017A-P2	9-24-03	1745	G	GW03-017A-P2	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03 017C-P8	9/24/03	1500	G	GW03-017C-P8	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	9/25/03	0635		9/25/03	0647

SPECIAL INSTRUCTIONS
SAMPLES SHIPPED ON ICE
IF ANY QUESTIONS, contact Jim Lehnen at 1800-850-9230
All VOC vials in cooler #1 with trip blanks.

Distribution: Original accompanies shipment, copy to coordinator field files

COOLER TEMP. = 4°C KEK

URSF-075C/1 OF 1/CofCR/GCM

173/2689

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAVID COFIELD / Matthew Hogg

LAB STL - BUFFALO

COOLER 1 of 2

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity Cond/Bicarb; Total Hardness; Total Cu/Fe/Mn; Hct. Rate Ct.; Methyl Hg; TCL VOCs

BOTTLE TYPE AND PRESERVATIVE: 4 oz HDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 12 oz glass; 40 ml VOA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	4 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	12 oz glass	40 ml VOA				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017A-P2	9/24/03	1745	G	GW03-017A-P2	WG	-	1	1	2	1						N1	-	-	-
GW03-017C-P8	9/24/03	1500	G	GW03-017C-P8	WG	-	1	1	2	1						N1	-	-	-
Field QC	9/24/03	—	grab	TB2-9/24/03	WQ	2					2					TB2	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	9/25/03	0630	[signature]	9/25/2003	0647

SPECIAL INSTRUCTIONS: SAMPLES SHIPPED ON ICE.

QUESTIONS - CONTACT JIM LEHNEN AT 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

COOLER TEMP = 4°C

KEK ✱ HOLD Methyl Hg Samples ✱

URSF-075C/1 OF 1/CofCR/GCM

174/2689

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) David Cofrello, David Cofrello, Steven M. Miller

LAB STL BUFFALO

COOLER 1 of 2

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40 ml VOA)	TOC (40 ml VOA - HCl)	TCL SVOCs (1 L AMBER)	TCL PEST (1 L AMBER)	TCL PCBs (1 L AMBER)	DIOXIN (2,3,7,8 TCDD) (1 L AMBER)	METALS/ TOTAL Hg (16 oz HDPE - HNO3)	TDS/TSS cl, sig (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017B-P5	9-25-03	1000	G	GW03-017B-P5	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-017B-P6	9-25-03	1050	G	GW03-017B-P6	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
David Cofrello	9/25/03	1100	[illegible]	9-25-03	13:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[illegible]	9/25/03	1415

SPECIAL INSTRUCTIONS
IF ANY QUESTIONS CONTACT JIM LEHNER @ 1800-850-9230
ALL VOC VIALS IN COOLER #1 WITH TRIP BLANKS

Distribution: Original accompanies shipment, copy to coordinator field files.

URSF-075C/1 OF 1/CofCR/GCM

193/3780

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) David Cofield, Stanley Moeller

LAB STL BUFFAL

COOLER 1 of 2

PAGE 1-2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb), Total Hardness, Total Coliform/Fecal Coliform, Met. Plate Ct., Methyl Hg, TCL VOCs

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE, 4 oz HDPE HNO3, 4 oz HDPE Na2S2O3, 12 oz Glass, 40 mL VOA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	12 oz GLASS	40 mL VOA				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017B-P5	9-25-03	1000	G	GW03-017B-P5	WG	—	1	1	2	1						N1	—	—	—
GW03-017B-P6	9-25-03	1050	G	GW03-017B-P6	WG	—	1	1	2	1						N1	—	—	—
FIELD QC	9-25-03	—	—	TB1-9-25-03	WQ	2					2					TB1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
David Cofield	9/25/03	1100	Jennifer Chung	9-25-03	13:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			R. Kopach	9/25/03	1415

SPECIAL INSTRUCTIONS: * HOLD Methyl Hg SAMPLE; * Samples shipped on ice

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

D 6.0°C

192/3780

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAVID COFIELDCH

LAB STL BUFFALO

COOLER 1 of 4

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOAs (40 mL VOA)	TOC (40 mL VOA HCL)	TCL SVOAs (1 L AMBER)	TCL PEST (1 L AMBER)	TCL PCBs (1 L AMBER)	DIOXIN (2,3,7,8 TCDD) (1 L AMBER)	METALS (16 oz HDPE HNO3)	Total H (16 oz HDPE)	TDS/TSS CL SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-011C-P8	9-25-03	1605	G	GW03-011C-P8	WG	19	3	2	2	2	1	2	1	1			NI	–	–	–
GW03-011C-P7	"	1330	G	GW03-011C-P7	WG	19	3	2	2	2	1	2	1	1			NI	–	–	–
GW03-011C-P7	"	1330	G	GW03-011C-P7(MS)	WG	19	3	2	2	2	1	2	1	1		MATRIX SPIKE	MS1	–	–	–
GW03-011C-P7	"	1330	G	GW03-011C-P7(MSD)	WG	19	3	2	2	2	1	2	1	1		MATRIX SPIKE DUP	SD1	–	–	–
	09/25/03	1410		GW03-011B-P4												RECEIVED, NOT LISTED				

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
SM. M	9-26-03	0635	[illegible]	9/26/03	0635

SPECIAL INSTRUCTIONS
IF ANY QUESTIONS CONTACT JIM LEHNEN @ 1800-850-9230
ALL VOC Vials in cooler #1
TRIP BLANKS

Distribution: Original accompanies shipment, copy to coordinator field files

4 COOLERS; TEMPS = 3°C, 4°C, 3°C, 3°C
KEK

URSF-075C/1 OF 1/CofCR/GCM

190/3780

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) David Caufield

LAB STL Buffalo

COOLER 1 of 4

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TESTS: ALKALINITY CARB/BICARB	TOTAL HARDNESS	TOTAL COLIFORM	HET. PLATE CT	METHYL Hg	TOTAL VOAS				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EXPIMS)
							BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE	4 oz HDPE H_2SO_3	4 oz HDPE $NaAsO_2$	12 oz GLASS	40 mL VOA									
GW03-011C-P8	9-25-03	1605	G	GW03-011C-P8	WG	—	1	1	2	1							N1	—	—	—
GW03-011C-P7	9-25-03	1330	G	GW03-011C-P7	WG	—	1	1	2	1							N1	—	—	—
GW03-011C-P7	9-25-03	1330	G	GW03-011C-P7(MS)	WG	—	1	1	2	1						MATRIX SPIKE	MS1	—	—	—
GW03-011C-P7	9-25-03	1330	G	GW03-011C-P7(MSD)	WG	—	1	1	2	1						MATRIX SPIKE DUP	SD1	—	—	—
FIELD QC	9-25-03	—	—	TB2-9-25-03	WQ	2					2						TB2	—	—	—
				GW03-011B-P4																

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	9-26-03	0635	[signature]	9/26/2003	0635

SPECIAL INSTRUCTIONS: HOLD METHY Hg SAMPLE

SAMPLES SHIP ON ICE

Distribution: Original accompanies shipment, copy to coordinator field files.

4 coolers; TEMPS = 3°C, 4°C, 3°C, 3°C

KEK

~~HTO~~ 5.2 cm

URSF-075C/1 OF 1/CofCR/GCM

191/3780

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, J. GRADY, M. HOLQUIST, D. COFFEY

LAB STL - BUFFALO

COOLER 1 of 4

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC'S (40 mL VOA)	TOC (40 mL VOA - HCL)	TCL SVOC'S (1L AMBER)	TCL PESTICIDES (1L AMBER)	TCL PCB'S (1L AMBER)	DIOXIN 2,3,7,8-TCDD (1L AMBER)	METALS/TOTAL HG (16oz HDPE HNO3)	TDS/TSS/CL-/SO4 (1L 8oz. HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-003A-P2	9/26/03	1030	G	GW03-003A-P2	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-003A-P2	9/26/03	0950	G	GW03-003A-P1	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-010B-P4	9/26/03	1210	G	GW03-010B-P4	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
~~FIELD QC~~	~~9/26/03~~	~~1010~~	-	TB2-9-26-03	WQ	2													
GW03-010C-P7	9/26/03	1010	G	GW03-010C-P7	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	9-26-03	1415	STL	9-26-03	1430

SPECIAL INSTRUCTIONS
SAMPLES SHIPPED ON ICE.
IF ANY QUESTIONS, CONTACT JIM LEHNEN AT 1-800-850-9230,

405.2

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

130/1946

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) D. COFIELD, J. GRADY, M. HOLQUIST, M. NEMETH

LAB STL - BUFFALO

COOLER 1 of 4

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: ALKALINITY (CARB/BICARB); TOTAL HARDNESS; TOTAL CHLORIDE; HET. PLATE CT.; METHYL HG; TOTAL VOAs

BOTTLE TYPE AND PRESERVATIVE: 3 oz. HDPE; 4 oz. HDPE HNO3; 4 oz HDPE Na2S2O3; 12 oz. GLASS; 40 ml VOA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO # OF CONTAINERS	3 oz. HDPE	4 oz. HDPE HNO3	4 oz HDPE Na2S2O3	12 oz. GLASS	40 ml VOA				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOG NO # (ERPIMS)
GW03-003A-P2	9/26/03	1030	G	GW03-003A-P2	WG	-	1	1	2	1						N1	-	-	-
GW03-003A-P1	9/26/03	0950	G	GW03-003A-P1	WG	-	1	1	2	1						N1	-	-	-
GW03-010B P4	9/26/03	1210	G	GW03-010B-P4	WG	-	1	1	2	1						N1	-	-	-
FIELD QC	9-26-03	-	-	TB2-9-26-03	WQ	2					2					TB2	-	-	-
GW03-010C -P7	9-26-03	1010	G	GW03-010C-P7	WG	1	1	1	2	1						N1	-	-	-
FIELD QC	9-26-03	-	-	TB1-9-26-03	WQ	2					2					TB1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	9-26-03	1415	[signature] STL	9/26/03	14:30

SPECIAL INSTRUCTIONS
HOLD METHYL HG SAMPLE.
4 @ 5.2°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40ml. glass vial - unpres.)	TOC (40ml. glass vial - HCl)	TCL SVOCs (1 l. amber glass - unpres.)	TCL Pesticides (1 l. amber glass - unpres.)	TCL PCBs (1 l. amber glass unpres.)	Dioxin (2,3,7,8-TCDD) (1 l. amber glass - unpres.)	Metals/ Total Hg (16 oz. HDPE bottle - HNO_3)	TDS/TSS/ Cl^-, SO_4^- (16 oz. HDPE bottle - unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
FIELD QC	9-29-03	—	grab	TB1-9/29/03	WQ	2	2								TRIP BLANK	TB1	—	—	—
GW03-016A-P1	9-29-03	1050	grab	GW03-016A-P1	WG	19	3	2	2	2	~~2~~ 1	2 (S.M.)	1	1		N1	—	—	—

MATRIX CODES					
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES			
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	9-29-03		[signature]	9-29-03	13:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] STL	9-30-03	14:45

SPECIAL INSTRUCTIONS

* Samples shipped on ice
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

4e2.0°

219/2958

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: courier AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TESTS: Alkalinity (carb/bicarb)	Total Hardness	Total Coliform/ Het. Plate Count	Methyl Hg					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE bottle - unpres.	4 oz. HDPE bottle - HNO3	4 oz. HDPE - Na2S2O3	12 oz. glass - unpres.									
GW03-016A-P1	9-29-03	1050	grab	GW03-016A-P1	WG	—	1	1	2	1						N1	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	9-29-03		[signature]	9-29-03	13:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] STL	9-29-03	14:45

SPECIAL INSTRUCTIONS

* HOLD Methyl Hg samples

4 @ 2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

220/2958

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) DAVID Cofield David Cofield

LAB STL BUFFALO

COOLER 1 of 3

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOAs (4 mL VOA)	TCL (4 mL VOAs - HCL)	TCL SVOAs (1 L AMBER)	TCL PEST (1 L AMBER)	TCL PCB, (1 L AMBER)	DIOXIN 2,3,7,8 TCDD (1 L AMBER)	METALS TOTAL H (16 oz HDPE HNO3)	TDS/TSS CL SO4 (16 oz HDPE 1)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-004A-P1	9-29-03	0950	G	GW03-004A-P1	WG	19	3	2	2	2	1	2	1	1		NI	-	-	-
GW03-0098-P4	9-29-03	1325	G	GW03-0098-P4	WG	19	3	2	2	2	1	2	1	1		NI	-	-	-
GW03-004A-P2	9-29-03	1110	G	GW03-004A-P2	WG	19	3	2	2	2	1	2	1	1		NI	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	9-29-03	14:30
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	9-29-03	1430	[signature] STL	9-29-03	14:45

SPECIAL INSTRUCTIONS
IF ANY QUESTIONS contact Jim Lehnen @ 1 800 850-4230
ALL VOC vials in cooler # 1
TRIP BLANKS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

221/2958

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0000G

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAVID COFIELD JR

LAB STL BUFFALO

COOLER 1 of 3

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: ALKALINITY (CARB/BICARB); TOTAL HARDNESS; TOTAL COLIFORM; HET. PLATE CT.; METHYL HG; HG; TOTAL VOAS

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HNO3 HDPE; 4 oz HDPE NaAsO2; 12 oz GLASS; 40 ml VOAs

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HNO3 HDPE	4 oz HDPE NaAsO2	12 oz GLASS	40 ml VOAs				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-004A-P1	9-29-03	0950	G	GW03-004A-P1	WG	+	1	1	2	1						Ni	–	–	–
GW03-009B-P4	9-29-03	1325	G	GW03-009B-P4	WG	–	1	1	2	1						Ni	–	–	–
GW03-004A-P2	9-29-03	1110	G	GW03-004A-P2	WG	–	1	1	2	1						Ni	–	–	–
FIELD QC	9-29-03	–	–	TB2-9-29-03	WQ	2					2					TB2	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	9-29-03	1430
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	9-29-03	1430	[signature] STL	9-29-03	14:45

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE

4e2.0c

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

222/2958

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER 4&5 of 5

PAGE 1 of 2

DELIVERY SERVICE: delivered to lab by URS AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 ml. glass vial - unpres.)	T.O.C. (40 ml. glass vial - HCl)	TCL SVOCs (1 l. amber glass - unpres.)	TCL Pesticides (1 l. amber glass - unpres.)	TCL PCBs (1 l. amber glass - unpres.)	Dioxins (2,3,7,8-TCDD) (1 l. amber glass - unpres.)	Metals/ Total Hg (16 oz. HDPE bottle - HNO3)	TDS/TSS/ Cl-/SO4 (16 oz. HDPE bottle - unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (FRPIMS)
FIELD QC	9-29-03	—	grab	TB3-9/29/03	WQ	2	2								TRIP BLANK	TB1	—	—	—
GW03-016A-P3	9-29-03	15:10	grab	GW03-016A-P3	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-016B-P4	9-29-03	17:55	grab	GW03-016B-P4	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	9-30-03	0630	[signature]	9/30/03	0628

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions, contact Jim Lehren at 1-800-850-9230

DELIVERY = 5 COOLERS @ 3°C, 3°C, 3°C, 3°C, 3°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

≤ @ 2.0°C

223/2958

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER 485 of 5

PAGE 2 of 2

DELIVERY SERVICE: delivered to lab by URS AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb); Total Hardness; Total Coliform/Heterotrophic Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE bottle-unpres.; 4oz. HDPE bottle-HNO_3; 4oz. HDPE-$Na_2S_2O_3$; 12oz. glass bottle-unpres.

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8oz. HDPE bottle-unpres.	4oz. HDPE bottle-HNO_3	4oz. HDPE-$Na_2S_2O_3$	12oz. glass bottle-unpres.	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016A-P3	9-29-03	15:10	grab	GW03-016A-P3	WG	—	1	1	2	1		N1	—	—	—
GW03-016B-P4	9-29-03	17:55	grab	GW03-016B-P4	WG	—	1	1	2	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	9-30-03	0630	[signature]	9/30/03	0628

SPECIAL INSTRUCTIONS: * HOLD Methyl Hg samples

Delivery = 5 coolers @ 3°C, 3°C, 3°C, 3°C, 3°C.

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

224/2958

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) David Cofield Jr

LAB STL BUFFALO

COOLER 1-3 of 5

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOAs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOAs (1 L AMBER)	TCL Pest (1 L AMBER)	TCL PCBs (1 L AMBER)	Dioxin (1 L AMBER)	(2,3,7,8 TCDD) Metal	Total Hg (16 oz HDPE HNO3)	TDS/TSS Cl SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-0091B-P5	9-29-03	1650	G	GW03-0091B-P5	WG	19	3	2	2	2	1	2	1	1			N1	-	-	-
GW03-0083-P4	9-29-03	1700	G	GW03-0083-P4	WG	19	3	2	2	2	1	2	1	1			N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
David Cofield	9-29-03	1900	S. M. M	9-29-03	1900
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
S. M. M	9-30-03	0630	[illegible]	9/30/03	0630

SPECIAL INSTRUCTIONS: SAMPLES SHIPPED ON ICE. IF ANY QUESTIONS CONTACT JIM LEHMEN AT 1800 850-9230. DELIVERY = 5 COOLERS @ 3°C, 3°C, 3°C, 3°C, 3°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

5 @ 7.0°C

225/2958

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117 1932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAVID C. FIELD JR. [signature]

LAB STL BUFFALO

COOLER 1-3 of 5

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: ALKALINITY (CARB/BICARB); TOTAL HARDNESS; TOTAL COLIFORM; HET. PLATE CT; METHYL HG; TOTAL VOAS

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HNO3 HDPE; 4 oz HDPE NaS2O3; 12 oz GLASS; 40 mL VOA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HNO3 HDPE	4 oz HDPE NaS2O3	12 oz GLASS	40 mL VOA				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-0083-P5	9-29-03	1650	G	GW03-0083-P5	WG	-	1	1	2	1						N1	-	-	-
GW03-0083	9-29-03	1700	G	GW03-0083-P4	WG	-	1	1	2	1									
FIELD QC	9-29-03	-	-	TB4-9-29-03	WQ	1					1					TB4	-	-	-
FIELD QC	9-29-03	-	-	TB5-9-29-03	WQ	1					1					TB5	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	9-29-03	1900	[signature]	9-29-03	1900
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	9-30-03	0630	[signature]	9/30/03	0630

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE

DELIVERY = 5 COOLERS @ 3°C, 3°C, 3°C, 3°C, 3°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

5 @ 3.0°C

226/2958

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117932.00006 | SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAVID Cofield Jr

LAB STL BUFFALO

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOAs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOAs (1 L AMBER)	TCL PEST (1 L AMBER)	TCL PCBs (1 L AMBER)	DIOXIN (1 L AMBER)	METAL Total # (16 oz HDPE -HNO3)	TSS/TDS Cl SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-009B -P6	9-30-03	1135	G	GW03-009B-P6	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
				9-30-03	13:19
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
	9-30-03	1319		09/30/03	1417

SPECIAL INSTRUCTIONS: SAMPLES SHIPPED ON ICE. IF ANY QUESTIONS CONTACT JIM LEHNEN AT 1800 850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

2B6.06c

URSF-075C/1 OF 1/CofCR/GCM

193/2857

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CHAIN OF CUSTODY RECORD

URS Greiner Woodward Clyde

PROJECT NO. 11171932 00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAVID COFIELD

LAB STL BUFFALO

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: ALKALINITY (CARB/BICARB); TOTAL HARDNESS; Total Cliffate; Hot Plate et; METHYL HG; TOTAL VOAS

BOTTLE TYPE AND PRESERVATIVE: 1 oz HDPE; 4 oz HNO3 HDPE; 4 oz HDPE NA2 S2 O3; 16 oz GLASS; 40 mL VOA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	1 oz HDPE	4 oz HNO3 HDPE	4 oz HDPE NA2 S2 O3	16 oz GLASS	40 mL VOA				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
GW03-C093-P6	9-30-03	1135	G	GW03-C093-P6	WG	–	1	1	2	1						N1	–	–	–
FIELD QC	9-30-03	–	–	TB2-9-30-03	WQ	1					1					TB2	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
				9-30-03	13:19
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	9-30-03	13:19		10/3/03	1417

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE

Distribution: Original accompanies shipment, copy to coordinator field files

2 @ 6.0°C

URSF-075C/1 OF 1/CofC /GCM

194/2857

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, J. GRADY, ~~S. HOEFLER, T. URBAN, M. HOLLOWAY, D. LOFTUS~~

LAB STL BUFFALO

COOLER ____ of 2 Coolers

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA - HCL)	TCL SVOCs (1 L AMBER)	TCL PESTICIDES (1 L AMBER)	TCL PCBs (1 L AMBER)	DIOXIN (2,3,7,8-TCDD) (1 L AMBER)	METALS/ TOTAL Hg (16 oz HDPE HNO3)	TDS/TSS/ Cl-/SO4- (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-016C-P7	9/30/03	0915	G	GW03-016C-P7	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
TRIP BLANK	9/30/03	-	-	TB1-9/30/03	WQ	2	2									TB1	-	-	-
GW03-016C-P8	9/30/03	1245	G	GW03-016C-P8	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
MISSA	9/30/03	1400		9/30/03	1400
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
				10/2/03	1417

SPECIAL INSTRUCTIONS
SAMPLES SHIPPED ON ICE.
ANY QUESTIONS, CONTACT JIM LEHNEN AT 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

z @ 6.0°C

URSF-075C/1 OF 1/CofCR/GCM

191/2857

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) ~~S. Moeller, T. Urban~~, J. Grady, M. Neneth, ~~M. Holcomb~~, D. ~~Lewis~~

LAB STL BUFFALO

COOLER ____ of 2 Coolers

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: NA

TESTS: Alkalinity (Carb/Bicarb); Total Hardness; Total Coliform; Het. Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 3 oz. HDPE; 4oz HDPE HNO3; 4oz HDPE Na2S2O3; 12 oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	3 oz. HDPE	4oz HDPE HNO3	4oz HDPE Na2S2O3	12 oz Glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016C-P7	9/30/03	0915	G	GW03-016C-P7	WG	-	1	1	2	1						N1	-	-	-
GW03-016C-P8	9/30/03	1245	G	GW03-016C-P8	WG	-	1	1	2	1						N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	9/30/03	1400	[signature]	9/30/03	1400
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	09/30/03	1417

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE.

Distribution: Original accompanies shipment, copy to coordinator field files

2 @ 6.0°C

URSF-075C/1 OF 1/Ceb R/GCM

192/2857

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: delivered to lab by URS AIRBILL NO.: N/A

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxins (2,3,7,8-TCDD); Metals/Total Hg; TDS/TSS/Cl⁻/SO4

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40ml. glass vial-unpres.	40ml. glass vial-HCl	1l. amber glass-unpres.	1l. amber glass-unpres.	1l. amber glass unpres.	1l. amber glass-unpres.	16oz. HDPE bottle-HNO3	16oz. HDPE bottle-unpres.	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
GW03-016A-P2	9-30-03	1355	grab	GW03-016A-P2	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	9-30-03	—	grab	TB3-9/30/03	WQ	2	2								TRIP BLANK	TB3	—	—	—
GW03-016B-P5	9-30-03	1745	grab	GW03-016B-P5	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-016B-P6	9-30-03	1800	grab	GW03-016B-P6	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-1-03	0630	[signature]	10/1/2003	0639

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions, contact Jim Lehnen at 1-800-850-9230

5 COOLER SHIPMENT; 3°C, 2°C, 2°C, 3°C, 3°C.
KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

195/2857

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: delivered to lab by URS AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Alkalinity (carb/bicarb) 8oz. HDPE bottle-unpres.	Total Hardness 4oz. HDPE bottle-HNO3	Total Coliform/ Heat Plate Count 4oz. HDPE bottle-Na2S2O3	Methyl Hg 12oz. glass bottle-unpres.				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO # (IRPIMS ONLY)
GW03-016A-P2	9-30-03	1355	grab	GW03-016A-P2	WG	—	1	1	2	1					N1	—	—	—
GW03-016B-P5	9-30-03	1745	grab	GW03-016B-P5	WG	—	1	1	2	1								
GW03-016B-P6	9-30-03	1800	grab	GW03-016B-P6	WG	—	1	1	2	1								

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-1-03	0630	[signature]	10/01/03	0629

SPECIAL INSTRUCTIONS
* HOLD Methyl Hg samples
5 COOLER SHIPMENT;
3°C, 2°C, 2°C, 3°C, 3°C.
KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

196/2857

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CHAIN OF CUSTODY RECORD

URS CONSULTANTS, INC.

PROJECT NO. 11117932.0000 6 | SITE NAME NYPA GW INVESTIGATION | CLIENT NYPA

LAB STL BUFFALO
COOLER 1 of 2
PAGE 1 of 2

SAMPLERS (PRINT) DAVID Cofield Jr

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TURNAROUND: ☒ NORMAL ☐ RUSH NUMBER OF DAYS:

LOCATION IDENTIFIER	DATE	TIME	COMP	GRAB	SAMPLE ID	MATRIX	TOTAL NUMBER OF CONTAINERS	TCL VOAs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOAs (1 L AMBER)	TCL PEST (1 L AMBER)	TCL PCBs (1 L AMBER)	DIOXIN (1, 2, 7, 8 TCDD) (1 L AMBER)	METAL Total (16 OZ HDPE HNO3)	REMARKS	IRPIMS SAMPLE TYPE	IRPIMS FIELD LOT #	IRPIMS BEGINNING DEPTH (IN FEET)	IRPIMS ENDING DEPTH (IN FEET)
GW03-008B-P5	9-30-03	15:0	—	G	GW03-008B-P5	WG	19	3	2	2	2	1	2	1		N1	—	—	—
GW03-008A-P1	9-30-03	16:25	—	G	GW03-008A-P1	WG	19	3	2	2	2	1	2	1		N1	—	—	—

MATRIX CODES

AA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTE
LH - HAZARDOUS LIQUID WASTE
SL - SLUDGE
ST - SOLID WASTE
WP - DRINKING WATER
WG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGS
WL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATER
WO - OCEAN WATER
WS - SURFACE WATER
WW - WASTE WATER
LF - FLOATING/FREE PRODUCT ON GW TABLE

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	9-30-03	1730
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB. BY (SIGNATURE)	DATE	TIME
[signature]	9-30-03	1730	[signature]	10/01/03	0629

SPECIAL INSTRUCTIONS
SAMPLES SHIPPED ON ICE
IF ANY QUESTIONS CONTACT JIM LEHNEN AT 1800 850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

5 COOLER SHIPMENT; 3°C, 3°C, 3°C, 3°C, 3°C.
KEK

URSF-075/1 OF 1/CofCR

198/2857

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CHAIN OF CUSTODY RECORD

URS CONSULTANTS, INC.

PROJECT NO. 1117932.00006 | SITE NAME NYPA GW INVESTIGATION | CLIENT NYPA

LAB STL BUFFALO

COOLER 1 of 2

PAGE 2 of 2

SAMPLERS (PRINT) DAVID COFIELDS

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TURNAROUND: ☒ NORMAL ☐ RUSH NUMBER OF DAYS:

TESTS: TDS/TSS, Cl, SO4, ALKALINITY (CARB/BICARB), TOTAL HARDNESS, TOTAL COLIFORM HET. PLATE ETC, METHYL Hg, TOTAL VOAS

BOTTLE TYPE AND PRESERVATIVE: 16 OZ HDPE, 8 OZ HDPE, 4 OZ HNO3 HDPE, 4 OZ HDPE Na2S2O3, 12 OZ GLASS, 40 ML VOA

LOCATION IDENTIFIER	DATE	TIME	COMP	GRAB	SAMPLE ID	MATRIX	TOTAL NUMBER OF CONTAINERS	16 OZ HDPE	8 OZ HDPE	4 OZ HNO3 HDPE	4 OZ HDPE Na2S2O3	12 OZ GLASS	40 ML VOA	REMARKS	SAMPLE TYPE	FIELD LOT #	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)
GW03-0083-P5	9-30-03	1500	—	G	GW03-0083-P5	WG	—	1	1	1	2	1			N1	—	—	—
GW03-0084-P1	9-30-03	1625	—	G	GW03-0084-P1	WG	—	1	1	1	2	1			N1	—	—	—
FIELD QC	9-30-03	—	—	—	TB4-9-30-03	WQ	2						2	TRIP BLANK	TB4	—	—	—
~~" "~~	~~9-30-03~~	~~—~~	~~—~~	~~—~~	~~TB-9-30-03~~	~~WQ~~	~~1~~						~~1~~		~~TB~~	~~—~~	~~—~~	~~—~~

MATRIX CODES

AA - AMBIENT AIR
SE - SEDIMENT
SH - HAZARDOUS SOLID WASTE
LH - HAZARDOUS LIQUID WASTE
SL - SLUDGE
ST - SOLID WASTE
WP - DRINKING WATER
WQ - WATER QUALITY
WG - GROUND WATER
SO - SOIL
DC - DRILL CUTTINGS
WL - LEACHATE
GS - SOIL GAS
WC - DRILLING WATER
WO - OCEAN WATER
WS - SURFACE WATER
WW - WASTE WATER
LF - FLOATING/FREE PRODUCT ON GW TABLE

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	9-30-03	1730
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	9-30-03	1730	[signature]	10/01/03	0629

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE

5 COOLER SHIPMENT; 3°C, 2°C, 2°C, 3°C, 3°C.

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075/1 OF 1/CofCR

197/2857

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, J. GRADY, M. HOLQUIST, D. COFIELD

LAB STL - BUFFALO

COOLER 1 of 4

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL PESTICIDES; TCL PCBs; DIOXIN (2,3,7,8-TCDD); METALS/TOTAL Hg; TDS/TSS/CL-/SO4-

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA HCL	1 L AMBER	1 L AMBER	1 L AMBER	1 L AMBER	16 oz HDPE HNO3	16 oz. HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-006B-P2	10/1/03	1100	G	GW03-006~~A~~B-P2	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-006B-P5	10/1/03	1200	G	GW03-006~~B~~A-P5	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-006B-P5	10/1/03	1200	G	GW03-006~~B~~A-P5 (MS)	WG	19	3	2	2	2	1	2	1	1	(MS)	MS1	-	-	-
GW03-006B-P5	10/1/03	1200	G	GW03-006~~B~~A-P5 (MSD)	WG	19	3	2	2	2	1	2	1	1	(MSD)	SD1	-	-	-
TRIP BLANK	10/1/03	-	-	TB1-10/1/03	WQ	2	2									TB1	-	-	-
GW03-006B-P1	10/1/03	1000	G	GW03-006~~B~~A-P1	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-

AMK 10/4/03

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	10/1/03	1425			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			STL	10-2-03	14:30

SPECIAL INSTRUCTIONS: SAMPLES SHIPPED ON ICE. ANY QUESTIONS CONTACT JIM LEHNEN 402.02

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

167/2083

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) J. GRADY, M. NEMETH, D. CFIELD, M. HOLQVIST

LAB STL - BUFFALO

COOLER 1 of 4

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: ALKALINITY (CARB/BICARB); TOTAL HARDNESS; TOTAL COLIFORM HET. PLATE COUNT; METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 OZ. HDPE; 4 OZ. HDPE HNO_3; 4 OZ. HDPE $Na_2S_2O_3$; 12 OZ. GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 OZ. HDPE	4 OZ. HDPE HNO_3	4 OZ. HDPE $Na_2S_2O_3$	12 OZ. GLASS					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (HRPIMS)
GW03-006A-P2	10/1/03	1100	G	GW03-006A-P2	WG	-	1	1	2	1						N1	-	-	-
GW03-006B-P5	10/1/03	1200	G	GW03-006A-P5	WG	-	1	1	2	1						N1	-	-	-
GW03-006B-P5	10/1/03	1200	G	GW03-006A-P5 (MS)	WG	-	1	1	2	1					(MS)	MS1	-	-	-
GW03-006B-P5	10/1/03	1200	G	GW03-006A-P5 (MSD)	WG	-	1	1	2	1					(MSD)	SD1	-	-	-
GW03-006B-P1	10/1/03	1000	G	GW03-006A-P1	WG	-	1	1	2	1						N1	-	-	-

AMK 12/4/03

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	10/1/03	1425			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			STL	10-1-03	14:30

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE. 4° 2.0°

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

168/2083

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW investigation

SAMPLERS (PRINT/SIGNATURE) D. Cofield, M. Holquist, M. Neneth, J. Grady

LAB SIL-Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC's (40 mL VOA)	TOC (40 mL Voa-HCl)	TCL SVOC's (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCB's (1 L Amber)	Dioxin (2,3,7,8,TCDD) (1 L Amber)	Metals\ Total Hg (16 oz HDPE HNO3)	TDS/TSS/ Cl/SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007B-P4	10-1-03	1600	G	GW03-007B-P4	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-007A-P1	10-1-03	1610	G	GW03-007A-P1	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	10-1-03	1738
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	10-1-03	1738	[signature]	10/02/03	0636

SPECIAL INSTRUCTIONS
Samples shipped on ice.
If any questions, contact Jim Lehnen at 1800 850 9230

SHIPMENT = SINGLE COOLER @ 2°C. (LISTED ON TWO COCs)

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) D Cofield, M. Holquist, M. Neneth, J. Grady

LAB STL BUFFALO

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb); Total Hardness; Total Coliform; HET PLATE CT; METHYL MG; TOTAL VOAS

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE; 4 oz. HNO3 HDPE; 4 oz. HDPE Na2S2O3; 12 oz. glass; 40 mL Vial

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz. HDPE	4 oz. HNO3 HDPE	4 oz. HDPE Na2S2O3	12 oz. glass	40 mL Vial				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPMS)
GW03-007B-P4	10-1-03	1600	G	GW03-007B-P4	WG	–	1	1	2	1						N1	–	–	–
GW03-007A-P1	10-1-03	1610	G	GW03-007A-P1	WG	–	1	1	2	1									
FIELD QC	10-1-03	–	–	TB3-10-1-03	WQ	2					2					TB3	–	–	–

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	10-1-03	1738
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	10-1-03	1738	[signature]	10/02/2003	0637

SPECIAL INSTRUCTIONS

SAMPLES SHIPPED ON ICE

Any Questions contact Jim Lehnen @ 1 800 850-9230

SHIPMENT = SINGLE COOLER @ 2°C. (LISTED ON TWO COCs). KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

169/2083

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CHAIN OF CUSTODY RECORD

URS Greiner Woodward Clyde

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) DAVID COFFIELD

DELIVERY SERVICE: COURIER AIRBILL NO.: N/A

LAB STL BUFFALO

COOLER 1 of 1

PAGE 1 of 1

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOAs (40 mL VOA)	TOC (4 mL VOA HCL)	TCL SVOC's (1L AMBER)	TCL PEST (1L AMBER)	TCL PCBs (1L AMBER)	DIOXIN (C13, 7, 9 TEQD) (1L AMBER)	METAL Total Hg (16oz HDPE HNO3)	TDS/TSS Cl/SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (IRPIMS ONLY)
GW03-007A-P1	10-2-03	1030	G	GW03-007A-P1	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-

PAK 11/1/03

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	10-2-03	1345	STL	10-02-03	14:00

SPECIAL INSTRUCTIONS
Samples shipped on ICE
If any questions, contact Jim Lehnen at 1800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

203.2°C

URSF-075C/1 OF 1/CofCR/GCM

198\2398

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932-00006

SITE NAME NYPA GW

SAMPLERS (PRINT/SIGNATURE) Dave Cofield

LAB STL BUFFALO

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (Carb/Bicarb), Total Hardness, Total Coliform, Hot Bottle, Methyl Hg, Total VOAs

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HNO3 HDPE; 4 oz HDPE NaOH 2 oz; 12 oz glass; 40 mL VOA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HNO3 HDPE	4 oz HDPE NaOH 2 oz	12 oz glass	40 mL VOA	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007A P1	10-2-03	1030	G	GW03-007A-P1/2	WG	-	1	1	2	1			N1	-	-	-
FIELD QC	10-2-03	-	-	TB2-10-2-03	WQ	2					2		TB2	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Dave Cofield	10-3-03	1345	Cliff Nye STL	10-02-03	14:00

Z 23.2 °C

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/C 1CR/C 1CM

199\2398

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: courier AIRBILL NO.: N/A

TESTS: TCL VOCs; TCL SVOCs; TOC; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8-TCDD); Metals/Total Hg; TDS/TSS/Cl⁻/SO₄⁻

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 ml. glass vials - unpres.	1 l. amber glass - unpres.	40 ml. glass vials - HCl	1 l. amber glass - unpres.	1 l. amber glass - unpres.	1 l. amber glass - unpres.	16 oz. HDPE bottle - HNO3	16 oz. HDPE bottle - unpres.	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
FIELD QC	10-2-03	—	grab	TB1-10/2/03	WQ	2	2								TRIP BLANK	TB1	—	—	—
GW03-017C-P9	10-2-03	0930	grab	GW03-017C-P9	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
~~GW03-017A-P1~~	~~10-2-03~~	~~1200~~	~~grab~~	~~GW03-017A-P1~~	~~WG~~	~~19~~	~~3~~	~~2~~	~~2~~	~~2~~	~~1~~	~~2~~	~~1~~	~~1~~		~~N1~~	~~—~~	~~—~~	
				S.M.															

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-2-03	1430	[signature] STL	10-2-03	14:30

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

2 03.2°C

URSF-075C/1 OF 1/CofCR/GCM

2012398

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb), Total Hardness, Total Coliform/Het. Plate Count, Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 3oz. HDPE bottle-unpres, 4oz. HDPE bottle-HNO3, 4oz. HDPE bottle-$Na_2S_2O_3$, 12oz. glass bottle-unpres

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	3oz. HDPE bottle-unpres	4oz. HDPE bottle-HNO3	4oz. HDPE bottle-$Na_2S_2O_3$	12oz. glass bottle-unpres					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-017C-P9	10-2-03	0930	grab	GW03-017C-P9	WG	—	1	1	2	1						N1	—	—	—
~~GW03-017A-P1~~	~~10-2-03~~	~~1200~~	~~grab~~	~~GW03-017A-P1~~	~~WG~~	~~—~~	~~1~~	~~1~~	~~2~~	~~1~~						~~N1~~	~~—~~	~~—~~	~~—~~
				S.M.															

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-2-03	1430	[signature] STL	10-2-03	14:30

SPECIAL INSTRUCTIONS: * HOLD Methyl Hg samples

Distribution: Original accompanies shipment, copy to coordinator field files

2 @ 3.2 °C

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAVID COFIELD Jr. [signature]

LAB STL BUFFALO

COOLER 1 of 3

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: N/A

TESTS: TCL VOAs, TOC; TCL SVOCs; TCL Pest; TCL PCBs; Dioxins (23, 7, 8 TCDD); Metals Total Hg; TDS/TSS; Cl Soil

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40mL VOA	40mL VOA HCL	1L AMBER	1L AMBER	1L AMBER	1L AMBER	16 OZ HDPE HNO3	16 OZ HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-002A-P1	10-2-03	1660	G	GW03-002A-P1	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-001A-P1	10-2-03	1630	G	GW03-001A-P1	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	10-2-03	1900
RELINQUISHED BY (SIGNATURE) [signature]	10-2-03	1900	RECEIVED FOR LAB BY (SIGNATURE) [signature]	10/3/2003	0630

SPECIAL INSTRUCTIONS: *SAMPLES PACKED ON ICE; *IF ANY QUESTIONS CONTACT JIM Lehnen; SHIPMENT = 3 COOLERS @ 2°C, 2°C, 2°C. (4 COCs) KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

LAB STL Buffalo

COOLER 1 of 3

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE) David Cofield Jr

DELIVERY SERVICE: COURIER AIRBILL NO.: N/A

TESTS: Alkalinity (Carb/Bicarb); Total Hardness; Total Coliform Het Plate Ct; Methyl Hg; Total VOA

BOTTLE TYPE AND PRESERVATIVE: 4 oz HDPE; 4 oz HNO3 HDPE; 4 oz HDPE Na2S2O3; 12 oz glass; 40 mL VOA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	4 oz HDPE	4 oz HNO3 HDPE	4 oz HDPE Na2S2O3	12 oz glass	40 mL VOA				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-002A-P1	10-2-03	1650	G	GW03-002A-P1	WG	4	1	1	2	1						N1	—	—	—
GW03-001A-P1	10-2-03	1630	G	GW03-001A-P1	WG	—	1	1	2	1						N1	—	—	—
Field QC	10-2-03	—	—	TB4-10-2-03	WQ	2					2				TRIP BLANK	TB4	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	10-2-03	1900
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-2-03	1900	[signature]	10/3/2003	0630

SPECIAL INSTRUCTIONS: *HOLD METHYL HG SAMPLE

SHIPMENT = 3 COOLERS @ 2°C, 2°C, 2°C. (4 COCs)

KEL

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER 2 of 3

PAGE 1 of 2

DELIVERY SERVICE: delivered to lab by URS AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml glass vial - unpres.)	TDC (40 ml glass vial - HCl)	TCL SVOCs (1 L. amber glass - unpres.)	TCL Pesticides (1 L. amber glass - unpres.)	TCL PCBs (1 L. amber glass - unpres.)	Dioxin (2,3,7,8-TCDD) (1 L. amber glass - unpres.)	Metals/ Total Hg (16 oz. HDPE bottle - HNO3)	TDS/TSS/ Cl-/SO4- (16 oz. HDPE bottle - unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
FIELD QC	10-2-03	—	grab	TB3-10/2/03	WQ	2	2								TRIP BLANK	TB1	—	—	—
GW03-017A-P1	10-2-03	1200	grab	GW03-017A-P1	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-015C-P7	10-2-03	1800	grab	GW03-015C-P7	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	10-3-03	0000	[signature]	10/3/2003	0630

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions, contact Jim Lehnen at 1-800-850-9230
* All VOA vials from above

SHIPMENT = 3 COOLERS @ 2°C, 2°C, 2°C. (4°C±2°C) KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Tom Urban

LAB STL Buffalo

COOLER 2 of 3

PAGE 2 of 2

DELIVERY SERVICE: delivered to lab by URS AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb), Total Hardness, Total Coliforms/Het. Plate Count, Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE bottle-unpres., 4 oz. HDPE bottle-HNO3, 4 oz. HDPE bottle-Na2S2O3, 12 oz. glass bottle-unpres.

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz. HDPE bottle-unpres.	4 oz. HDPE bottle-HNO3	4 oz. HDPE bottle-Na2S2O3	12 oz. glass bottle-unpres.					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-017A-P1	10-2-03	1200	grab	GW03-017A-P1	WG	—	1	1	2	1						N1	—	—	—
GW03-015C-P7	10-2-03	1800	grab	GW03-015C-P7	WG	—	1	1	2	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-3-03	0630	[signature]	10/3/03	0630

SPECIAL INSTRUCTIONS: * HOLD Methyl Hg samples

SHIPMENT = 3 COOLERS @ 2°C, 2°C, 2°C. (4 COCs) REK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Andrew Brayman, Tom Urban, Matt Holquist

LAB STL Buffalo

COOLER 2 of 4

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 ml glass vial - unpres.)	TOC (40 ml glass vial - HCl)	TCL SVOCs (1 L amber glass - unpres.)	TCL Pesticides (1 L amber glass - unpres.)	TCL PCBs (1 L amber glass - unpres.)	Dioxins (2,3,7,8-TCDD) (1 L amber glass - unpres.)	Metals (16oz. HDPE bottle - HNO3)	Total Hg (16oz. HDPE bottle - HNO3)	TDS/TSS/Cl-/SO4 (1 L amber bottle - unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO # (ERPIMS)
FIELD QC	10-3-03	—	grab	TB1-10/3/03	WQ	2	2									TRIP BLANK	TB1	—	—	—
GW03-015B-P4	10-3-03	1030	grab	GW03-015B-P4	WG	19	3	2	2	2	1	2	1	1			N1	—	—	—
GW03-015A-P1	10-3-03	1045	grab	GW03-015A-P1	WG	19	3	2	2	2	1	2	1	1			N1	—	—	—
FIELD QC	10-3-03	1230	grab	~~GW0~~EB1-10/3/03	WQ	19	3	2	2	2	1	2	1	1		PERISTALTIC PUMP EQUIPMENT RINSE BLANK	EB1	—	—	—
				S.M.																

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES				
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-3-03	14:45	[signature] STL	10-3-03	14:45

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

(2.0°C)

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Andrew Bragman, Tom Urban, Matt Holquist

LAB STL Buffalo

COOLER 2 of 4

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb); Total Hardness; Total Coliforms/Fecal Coliforms; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE bottle-unpres; 8oz HDPE bottle-HNO3; 4oz. HDPE bottle-NaS2O3; 12 oz. glass bottle-unpres.

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8oz. HDPE bottle-unpres	8oz HDPE bottle-HNO3	4oz. HDPE bottle-NaS2O3	12 oz. glass bottle-unpres.					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOG NO # (FRITMS)
GW03-015B-P4	10-3-03	1030	grab	GW03-015B-P4	WG	—	1	1	2	1						N1	—	—	—
GW03-015A-P1	10-3-03	1045	grab	GW03-015A-P1	WG	—	1	1	2	1						N1	—	—	—
FIELD QC	10-3-03	1230	grab	EB1-10/3/03	WQ	—	1	1	2	1					PERISTALTIC PUMP EQUIPMENT RINSE BLANK	EB1	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-3-03	14:45	[signature] STL	10-03-03	14:45

SPECIAL INSTRUCTIONS: * HOLD Methyl Hg samples

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

2.0°C

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, J. GRADY

LAB STL BUFFALO

COOLER 1 of 4

PAGE 1 of 1

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP / GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs / TOC (40mL VOA vial HCL)	TCL SVOC's (1L Amber)	TCL Pesticides (1L Amber)	Metals / Total Hg (16oz HDPE HNO3)	TSS, TDS, Cl⁻, SO4⁻ (16oz HDPE)	Alkalinity (Cars/Bicarb) (8oz HDPE)	Total Hardness (4oz HDPE HNO3)	Total Coliforms Het. Plate Ct. (4oz HDPE Na2S2O3)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-006A-P4	10/3/03	0820	G	GW03-006A-P4	WG	13	5	2	0	1	1	1	1	2	LIMITED SAMPLE VOLUME	N1	-	-	-
GW03-007A-P3	10/3/03	0955	G	GW03-007A-P3	WG	14	5	2	1	1	1	1	1	2	LIMITED SAMPLE VOLUME	N1	-	-	-
FIELD QC	10/3/03	-	-	TB2-10/3/03	WQ	2	2									TB1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/3/03	1305	[signature]	10/3/03	1305
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	10-3-03		[signature] STL	10-3-03	14:45

SPECIAL INSTRUCTIONS
SAMPLES SHIPPED ON ICE.
LIMITED SAMPLE VOLUME AVAILABLE.
GW03-006A-P4 SVOCS ONLY FILLED 1 (ONE) AND ONE HALF BOTTLES.
ANY QUESTIONS CONTACT JIM LEHNEN

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

2.0°C

145/1786

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Mark Holquist, Tom Urban

CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Jerry Grady, Melissa Nemeth, Steven Moeller, Andrew Brayman, Colin Wanstaneys

LAB STL Buffalo

COOLER ____ of 3

PAGE 1 of 2

DELIVERY SERVICE: delivered to lab by URS AIRBILL NO.: N/A

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxins (2,3,7,8-TCDD); Mercury/Total Hg; TDS/TSS/Cl⁻/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 ml glass vial-unpres.; 40 ml glass vial-HCl; 1 L amber glass-unpres.; 1 L amber glass-unpres.; 1 L amber glass-unpres.; 1 L amber glass-unpres.; 16 oz. HDPE bottle-HNO3; 16 oz. HDPE bottle-unpres.

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 ml glass vial-unpres.	40 ml glass vial-HCl	1 L amber glass-unpres.	1 L amber glass-unpres.	1 L amber glass-unpres.	1 L amber glass-unpres.	16 oz. HDPE bottle-HNO3	16 oz. HDPE bottle-unpres.	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
FIELD QC	10/6/03	—	grab	TB3-10/6/03	WQ	2	2								TRIP BLANK (Moeller/Brayman)	TB3	—	—	—
GW03-015B-P6	10/6/03	17:10	grab	GW03-015B-P6	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
							1	(5.M.)											
FIELD QC	10/6/03	—	grab	TB4-10/6/03	WQ	1	X								TRIP BLANK (Grady/Nemeth)	TB4	—	—	—
GW03-014B-P4	10/6/03	13:15	grab	GW03-014B-P4	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-014B-P5	10/6/03	17:30	grab	GW03-014B-P5	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-00JA-P1	10/6/03	17:15	grab	GW03-00JA-P1	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	10/6/03	—	grab	TB5-10/6/03	WQ	1	1								TRIP BLANK (Holquist, Urban)	TB5	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-7-03	0630	[signature]	10/7/03	0630

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

SHIPMENT = 3 COOLERS @ 2°C, 2°C, 2°C.
KEK

URSF-075C/1 OF 1/CofCR/GCM

168/1887

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Jerry Grady, Melissa Nemeth, Steven Moeller, Andrew Brayman, Colin Wasteneys

DELIVERY SERVICE: delivered to lab by URS AIRBILL NO.: N/A

LAB STL Buffalo

COOLER ____ of 3

PAGE 2 of 2

TESTS: Alkalinity (carb/bicarb), Total Hardness, Total Coliform, Heterotrophic Plate Count, Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE bottle-unpres., 4oz. HDPE bottle-HNO3, 4oz. HDPE bottle NaO2S2O3, 1200ml glass bottle-unpres.

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz. HDPE bottle-unpres.	4oz. HDPE bottle-HNO3	4oz. HDPE bottle NaO2S2O3	1200ml glass bottle-unpres.					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015B-P6	10/6/03	17:10	grab	GW03-015B-P6	WG	—	1	1	2	1						N1	—	—	—
GW03-014B-P4	10/6/03	13:15	grab	GW03-014B-P4	WG	—	1	1	2	1						N1	—	—	—
GW03-014B-P5	10/6/03	17:30	grab	GW03-014B-P5	WG	—	1	1	2	1						N1	—	—	—
GW03-005A-P1	10/6/03	17:15	grab	GW03-005A-P1	WG	—	1	1	2	1						N1	-	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-7-03	0630	[signature]	10/7/03	0630

SPECIAL INSTRUCTIONS: * HOLD Methyl Hg samples

SHIPMENT = 3 COOLERS @ 2°C, 2°C, 2°C.

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

169/1887

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Jerry Grady, Melissa Nemeth, Steven Moeller, Andrew Brayman, Colin Wasteneys

LAB STL Buffalo

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: courier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40ml. glass vial-unpres.)	TOC (40ml. glass vial-HCl)	TCL SVOCs (1 L. amber glass-unpres.)	TCL Pesticides (1 L. amber glass-unpres.)	TCL PCBs (1 L. amber glass-unpres.)	Dioxin (2,3,7,8-TCDD) (1 L. amber glass-unpres.)	Metals/ Total Hg (500 ml. HDPE bottle-HNO3)	TPS/TSS/ Cl-/SO4 (1000 ml. HDPE bottle-unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
FIELD QC	10/6/03	—	grab	TB1-10/6/02	WQ	2	2								TRIP BLANK (Moeller/Brayman)	TB1	—	—	—
GW03-015B-P5	10/6/03	11:40	grab	GW03-015B-P5	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
~~GW03-014C-P7~~ (S.M.)																			
FIELD QC	10/6/03	—	grab	TB2-10/6/02	WQ	2	2								TRIP BLANK (Grady/Nemeth)	TB2	—	—	—
GW03-014C-P7	10/6/03	10:00	grab	GW03-014C-P7	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	10-6-03	1500	Mye STL	10/6/03	15:00

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

2@ 4.6 °C

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Jerry Grady, Melissa Nemeth, Steven Moeller, Andrew Bragman, Colin Wartenegs

LAB STL Buffalo

COOLER 1 of 2

PAGE 2 of 2

DELIVERY SERVICE: courier AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb); Total Hardness; Total Coliforms/Heat Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE bottle-unpres.; 4oz. HDPE bottle-HNO3; 4oz. HDPE bottle-$Na_2S_2O_3$; 12oz. glass bottle unpres.

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz. HDPE bottle-unpres.	4oz. HDPE bottle-HNO3	4oz. HDPE bottle-$Na_2S_2O_3$	12oz. glass bottle unpres.					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015B-P5	10/6/03	11:40	grab	GW03-015B-P5	WG	—	1	1	2	1						N1	—	—	—
GW03-014C-P7	10/6/03	10:00	grab	GW03-014C-P7	WG	—	1	1	2	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10-6-03	1500	[signature] STL	10-6-03	15:00

SPECIAL INSTRUCTIONS
* HOLD Methyl Hg samples

2@ 4.6°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYSPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Jerry Grady / Kevin McGovern / Tom Urban

LAB STL-Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8 TCDD) (1L Amber)	Metals Total Hg (16 oz HDPE - HNO3)	TDS/TSS/Cl-304 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014B-P6	10/7/03	1030	Grab	GW03-014B-P6	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
TBi-10-7-03	10/7/03	—	–	TBi-10-7-03	WG	1	1									N1	–	–	–
GW03-001A-P2	10/7/03	9:10	Grab	GW03-001A-P2	WG	13	3	2	–	–	1	–	1	1		N1	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Jerry Grady	10/7/03	1745			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			STL	10/07/03	1545

SPECIAL INSTRUCTIONS
* Samples shipped on Ice
If any questions contact Jim Lahner @ 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) ~~Tracy Gaffney~~ Tom Urban / Jenny Grady / Kevin McGreen

LAB STL-BUFFALO

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity Carb/Bicarb; Total Hardness; Total Cyanides/Hg/Phenols; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO3; 4oz HDPE NaSL O3; 12oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8oz HDPE	4oz HDPE HNO3	4oz HDPE NaSL O3	12oz Glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW-03-01AB-P6	10/7/03	10:30	GRAB	GW03-01AB-P6	WG	—	1	1	2	1						N1	—	—	—
GW-001A-P2	10/7/03	9:10	Grab	GW03-001A-P2	WG	—	1	1	2	1						N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/7/03	1345			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] STL	10-07-03	13:45

SPECIAL INSTRUCTIONS
*HOLD METHYL Hg SAMPLE
2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

156/1880

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) Kevin McGovern, Jerry Grady

LAB STL-BUFFALO

COOLER 4 of 4

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA w/HCL)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8 TCDD) (1L Amber)	Metals/ Total Cn/ Hg (16oz HDPE w/HNO3)	TDS/TSS/ Cl, SRL (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW-03-014A	10/7/03	16:30	GRAB	GW-03-014A-P3	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
TB-4-10-7-03	10/7/03	N/A	—	TB-4-10-7-03	W3	1	1									N1	-	-	-

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/7/03	1905	[signature]	10/7/03	1905
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10/8/03	0628	[signature]	10/8/03	~~0628~~ 0630 KER

SPECIAL INSTRUCTIONS

* SAMPLES SHIPPED ON ICE
* IF ANY QUESTIONS, CONTACT TIM LEHNAN @ 1-800-850-9230
SHIPMENT = 4 COOLERS @ 2°C, 2°C, 3°C, 2°C.
KER

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/ColCR/GCM

158/1880

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) Kevin McGovern, Terry Grady

LAB STL - Buffalo

COOLER 4 of 4

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (Carb/Bicarb); Total Hardness; Total Cyanides (HPC); Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE w/HNO3; 4oz HDPE - NaOH 03; 12oz GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE w/HNO3	4oz HDPE - NaOH 03	12oz GLASS					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW-03-014A-P3	10/7/03	16:30	GRAB	GW-03-014A-P3	WG	-	1	1	2	1						N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Terry Grady	10/7/03	1805	[signature]	10/7/03	1805
[signature]	10/8/03	0628	[signature]	10/8/03	~~0628~~ 0630

RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10/8/03	~~0628~~ 0630

SPECIAL INSTRUCTIONS: * Hold Methyl Hg Sample

SHIPMENT = 4 COOLERS @ 2°C, 2°C, 3°C, 2°C. KEK

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

157/1880

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. Moeller, M. Nemeth, T. Urban, J. Grady, M. Holquist

LAB STL - Buffalo

COOLER 1 of 2

PAGE 1 of 2

DELIVERY SERVICE: Carrier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOC (40 mL VOA)	TOC (40 mL VOA - HCL)	TCL SVOCs (1L AMBER)	TCL Pests (1L AMBER)	TCL PCBs (1L AMBER)	Dioxin (2,3,7,8 TCDD) (1L AMBER)	Metals/Total Hg (16oz HDPE - HNO3)	TDS/TSS Cl/SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010B-P5	10/8/03	1040	Grab	GW03-010B-P5	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-001A-P2	10/8/03	0845	Grab	GW03-001A-P2	WG	6			2	2		2							
~~GW03-[illegible]~~																			
GW03-005A-P2	10/8/03	0930	GRAB	GW03-005A-P2	WG	12	3	2					1	1					
GW03-007A-P3	10/8/03	1230	Grab	GW03-007A-P3	WG	3					1	2							
GW03-006A-P4	10/8/03	1120	GRAB	GW03-006A-P4	WG	6				2	1	2							
TB1-10-8-03	10/8/03	—	—	TB-1-10-8-03	WG	1	1												
TB2-10-8-03	10/8/03	—	—	TB-2-10-8-03	WG	1	1												

MATRIX CODES					
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/13/03	1415			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature] STL	10-08-03	1411

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions contact Jim Lehner @ 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-0750/1 OF 1/CofCR/GCM

232/2603

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Neuth, T. Urban, J. Grady, M. Holquist

LAB STL-Buffalo

COOLER 2 of 2

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb); Total Hardness; Total Coliforms Heat Plate Ct; methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO_3; 4 oz HDPE $Na_2S_2O_3$; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE $Na_2S_2O_3$	12 oz glass	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010B-P5	10/8/03	1040	Grab	GW03-010B-P5	WG	-	1	1	2	1		N1	-	-	-
GW03-005A-P2	10/8/03	0930	Grab	GW03-005A-P2	WG	-	1	1	2	1					
GW03-007A-P3	10/8/03	1230	Grab	GW03-007A-P3	WG	-				1					
GW03-006A-P4	10/8/03	1120	Grab	GW03-006A-P4	WG	-				1					

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/8/03	1415			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature] STL	10-08-03	14:15

SPECIAL INSTRUCTIONS
* samples shipped on ice
* If any questions, contact Jim Lehner @ 1800-850-9230
x HOLD Methyl Hg Sample

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075 1 OF 1/CCR/GCM

5.0°C

231/2603

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Colin Wasteneys / Colin Wasteneys
Andrew Brayman / Andrew B Brayman

LAB STL Buffalo

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: TCL VOCs; TOC; TCLSVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8 TCDD); Metals/Total Hg; TDS/TSS/Cl⁻/SO₄²⁻

BOTTLE TYPE AND PRESERVATIVE: 40mL VOA; 40mL VOA-HCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16oz HDPE HNO₃; 16oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40mL VOA	40mL VOA-HCl	1L Amber	1L Amber	1L Amber	1L Amber	16oz HDPE HNO₃	16oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013B-P5	10/8/03	1134	grab	GW03-013B-P5	WG	19	3	2	2	2	1	2	1	1		N	–	–	–
Field QC	10/8/03	—	grab	TB3-10/8/03	WQ	1	1								Trip Blank (Wasteneys/Bray)	TB3	–	–	–

AHK 11/7/03

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew B Brayman	10/8/03	1425	[signature] STL	10-08-03	1415

SPECIAL INSTRUCTIONS: *Hold methyl Hg samples

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-0750 1 OF 1/COCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Colin Wasteneys / [signature]
Andrew Brayman / [signature]

LAB STL Buffalo

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity Carb/Bicarb; Total Hardness; Total Coliforms Het. Plate Ct.; Methyl Hg. *

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO_3; 4 oz HDPE $Na_2S_2O_3$; 1 2 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE $Na_2S_2O_3$	1 2 oz glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-0133-P5	10/8/03	1134	Grab	GW03-0133-P5	Wg	1	1	1	2	1						N	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10/8/03	14:15	[signature] STL	10-8-03	14:15

SPECIAL INSTRUCTIONS
* Hold methyl Hg samples

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brampton / Andrew B Berger

LAB STL Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40mL VOA-HCL)	TCL SVOCs (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCBs (1 L Amber)	Dioxins 2,3,7,8-TCDD (1 L Amber)	Metals / Total Hg (16 oz HDPE HNO3)	TDS / TSS / Cl⁻ SO4⁻ (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (FRPIMS)
GW03-013B-P4	10/8/03	17:15	grab	GW03-013B-P4	WG	19	3	2	2	2	1	2	1	1		N,	–	–	–
Field QC	10/8/03	–	Grab	TB5-10/8/03	WQ	1	1								Trip blank (CW/AB)				
GW03-013A-P1	10/8/03	14:15	Grab	GW03-013A-P1	WG	19	3	2	2	2	1	2	1	1		N,	–	–	–
GW03-013C-P7	10/8/03	16 30	Grab	GW03-013C-P7	WG	14	3	2	1	1			1	1		N,	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew B Berger	10/8/03	0630	[signature]	10/9/03	0630

SPECIAL INSTRUCTIONS

SHIPMENT = 3 COOLERS @ 2°C, 4°C, 2°C.

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075 1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andrew Blaymore/Andrew S Berg

LAB STL Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (Carb/Bicarb), Total Hardness, Total Coliforms Het. Plate Ct, Methyl/Ng

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 8 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 12 oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	8 oz HDPE HNO3	4 oz HDPE Na2S2O3	12 oz Glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013B-P4	10/8/03	17:15	Grab	GW03-013B-P4	WG	1	1	1	2	1						N	-	-	-
GW03-013A-P1	10/8/03	14:15	Grab	GW03-013A-P1	WG	-	1	1	2	1						N	-	-	-
GW03-013C-P7	10/8/03	16:30	Grab	GW03-013C-P7	WG	-	1	1	2	1						N	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew S Berg	10/9/03	0630	K E Kozpeuk	10/9/03	0630

SPECIAL INSTRUCTIONS: SHIPMENT = 3 COOLERS @ 2°C, 4°C, 2°C.

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075 1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) T. URBAN, M. HOLQUIST, J. GRADY, M. NEMETH

LAB STL BUFFALO

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA HCL)	TCL SVOCs (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCBs (1 L Amber)	Dioxin (2,3,7,8-TCDD) (1 L Amber)	Metals/ Total Hg (16 oz HDPE HNO3)	TDS/TSS/ Cl-/SO4- (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-008A-P2	10/8/03	1740	G	GW03-008A-P2	WG	19	3	2	2	2		2	1	1		N1			
GW03-008A-P3	10/8/03	1750	G	GW03-008A-P3	WG	19	3	2	2	2		2	1	1		N1			
Field QC	10/8/03	–	–	TB6-10/8/03	WQ	2	2									TB1			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10/8/03	0630	[signature]	10/9/03	0630

SPECIAL INSTRUCTIONS
* SAMPLES SHIPPED ON ICE.
ANY QUESTIONS, CALL JIM LEHNEN AT 1-800-850-9230

SHIPMENT = 3 COOLERS @ 2°C, 4°C, 2°C.
KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) T. URBAN, M. HOLQUIST, J. GRADY, M. NEMETH

LAB ST BUFFALO

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: ALKALINITY (CARB/BICARB), TOTAL HARDNESS, TOTAL COLIFORM, HG. PLATE CT., METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 12 oz. GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz. HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	12 oz. GLASS					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-008A-P2	10/8/03	1740	G	GW03-008A-P2	WG	–	1	1	2	1						N1			
GW03-008A-P3	10/8/03	1750	G	GW03-008A-P3	WG	–	1	1	2	1						N1			

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10/9/03	0630	[signature]	10/9/03	0630

SPECIAL INSTRUCTIONS

HOLD METHYL HG SAMPLE.

SHIPMENT = 3 COOLERS @ 2°C, 4°C, 2°C.

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075 1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Colin Wasteneys / Andy Blagrove

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

LAB STL-Buffalo

COOLER 1 of

PAGE 1 of 2

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA-HCL)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8 TCDD) (1L Amber)	Metals/ Total Hg (16 oz HDPE-HNO3)	TDS/TSS Cl, SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012B-P5	10/9/03	1145	grab	GW03-012B-P5	WG	19	3	2	2		1	2	1	1		N1	–	–	–
GW03-013C-P7	10/9/03	0800	Grab	GW03-013C-P7	WG	2					1	1				N1	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andy Blagrove	10/9/03	14:14	R. Kozerek	10/9/03	1413

SPECIAL INSTRUCTIONS
* Samples shipped on ice
* If any questions, Contact Jim Lehnen, 800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11719932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Colin Wasteneys / Andy Brayman

LAB STL-Buffalo

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb); Total Hardness; Total Calcium; Methyl Hg; Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE; 4 oz. HDPE HNO_3; 4 oz HDPE H_2SO_4 + $NaOH$; 120 oz. Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz. HDPE	4 oz. HDPE HNO_3	4 oz HDPE H_2SO_4 + $NaOH$	120 oz. Glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012B-P5	10/9/03	1145	Grab	GW03-012B-P5	WG	—	1	1	2	1						N1	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew Brayman	10/9/03	14:14	K. Kaspeck	10/9/03	1413

SPECIAL INSTRUCTIONS
* Hold Methyl Hg sample

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

220/2715

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, J. GRADY, T. URBAN, M. HOLQUIST

LAB STL - BUFFALO

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TESTS: TCL VOCs	TOC	TCL SVOCs	TCL PESTICIDES	TCL PCBs	DIOXIN (2,3,7,8-TCDD)	METALS/ TOTAL HG	TDS/TSS/ Cl^-/SO_4^-	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							BOTTLE TYPE AND PRESERVATIVE												
							40 mL VOA	40 mL VOA HCL	1L AMBER	1L AMBER	1L AMBER	1L AMBER	1L 03 HDPE HNO3	1L 03 HDPE					
GW03-008B-P6	10/9/03	1115	G	GW03-008B-P6	WG	19	3	2	2	2	1	2	1	1		N1			
GW03-011A-P1	10/9/03	1030	G	GW03-011A-P1	WG	19	3	2	2	2	1	2	1	1		N1			
Field QC	10/9/03	-	-	TB2-10/9/03	WQ	2	2									TB2			
GW03-010B-P6	10/9/03	1345	G	GW03-010B-P6	WG	19	3	2	2	2	1	2	1	1		N1			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	10/9/03	1425	[signature]	10/9/03	1426

SPECIAL INSTRUCTIONS
SAMPLES SHIPPED ON ICE.
ANY QUESTIONS, CONTACT JIM LEHNEN AT 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

221/2715

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, J. GRADY, T. URBAN, M. HOLQUIST

LAB STL - BUFFALO

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: ALKALINITY (CARB/BICARB), TOTAL HARDNESS, TOTAL CULPRIT, HOT. PLATE EX., METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE - HNO3; 4 oz HDPE Na2S2O3; 12 oz GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz HDPE	4 oz HDPE - HNO3	4 oz HDPE Na2S2O3	12 oz GLASS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-008B-P6	10/9/03	1115	G	GW03-008B-P6	WG	-	1	1	2	1		N1			
GW03-011A-P1	10/9/03	1030	G	GW03-011A-P1	WG	-	1	1	2	1		N1			
GW03-010B-P6	10/9/03	1345	G	GW03-010B-P6	WG	-	1	1	2	1		N1			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Melissa	10/9/03	1425		10/9/03	1420

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE.

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, T. URBAN, M. HOLQUIST, J. GRADY

LAB STL - BUFFALO

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40 ml VOA)	TOC (40 ml VOA HCl)	TCL SVOCs (1L AMBER)	TCL PESTICIDES (1L AMBER)	TCL PCBs (1L AMBER)	DIOXIN (2,3,7,8-TCDD) (1L AMBER)	METALS/ TOTAL Hg (16 oz HDPE HNO3)	TDS/TSS/ Cl-/SO4- (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-009A-P2	10/9/03	1720	G	GW03-009A-P2	WG	19	3	2	2	2	1	2	1	1		N2	–	–	–
GW03-010A-P1	10/9/03	1715	G	GW03-010A-P1	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
FIELD QC	10/9/03	–	–	TB3 - 10/9/03	WQ	2	2									TB3	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Melissa [illegible]	10/9/03	1822	[illegible]	10/9/03	1822
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[illegible]	10/10/03	06:30	Mark M. Wright	10/10/03	0630

SPECIAL INSTRUCTIONS
SAMPLES SHIPPED ON ICE
QUESTIONS - CONTACT JIM LEHNEN 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, J. GRADY, M. HOLQUIST, T. URBAN

LAB STL - BUFFALO

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: ALKALINITY (CARB/BICARB), TOTAL HARDNESS, TOTAL CALCIUM, HEX. PLATE CR., METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 12 oz GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	12 oz GLASS					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-009A-P2	10/9/03	1720	G	GW03-009A-P2	WG	-	1	1	2	1						N1	-	-	-
GW03-010A-P1	10/9/03	1715	G	GW03-010A-P1	WG	-	1	1	2	1						N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/9/03	1822	[signature]	10/9/03	18/22
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	10/10/03	06:30	[signature]	10/10/03	06:30

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE.

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Bleyman / Andrea B Berger

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

LAB STL Buffalo

COOLER ____ of ____

PAGE 1 of 2

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8 TCDD); Metals/Hg Total; TOC/TSS/Cl/SO4

BOTTLE TYPE AND PRESERVATIVE: 40mL VOA; 40mL VOA-HCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16oz HDPE HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40mL VOA	40mL VOA-HCl	1L Amber	1L Amber	1L Amber	1L Amber	16oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012B-PC	10/9/03	18:45	Grab	GW03-012B-PC	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
Field QC	10/9/03	—	Grab	TB4-10/9/03	WQ	2	2												

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrea B Berger	10/10/03	06:30	[illegible]	10-10-03	06:30

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Braymer/Andrew B Berger

LAB STL Buffalo

COOLER _____ of _____

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (Carb/Bicarb) | Total Hardness | Total Sulfides Hot Plate Cl2 | Mercury / Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE | 4 oz HDPE HNO3 | 4 oz HDPE Na2S2O3 | 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	12 oz glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-012B-P6	10/9/03	18:45	Grab	GW03-012B-P6	WG	1	1	1	2	1						N1	1	1	1

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew B Berger	10/10/03	06:30	[illegible]	10/10/03	06:30

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Blaymer / Andrew D. Berger

LAB STL Buffalo

COOLER 1 of 2

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs 40mL VOA	TOC 40mL VOA-HCl	TCL SVOCs 1L Amber	TCL Pesticides 1L Amber	TCL PCBs 1L Amber	Dioxin (2,3,7,8 TCDD) 1L Amber	Metals / Total Hg 16oz HDPE HNO3	TDS / TSS / Cl / SO4 16oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012A-P2	10/10/03	11:00	Grab	GW03-012A-P2	WG	19	3	2	2	2	1	2	1	1		N	–	–	–
Field QC	10/10/03	–	–	TB1-10/10/03	WQ	2	2								Trip Blank (Colin Washing + Andy B)				
Field QC	10/10/03	12:30	Grab	EB1-10/10/03	WQ	19	3	2	2	2	1	2	1	1	Equipment rinse blank or bailer				

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[signature]	10-10-03	8:50
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	10/10/03	13:50			

SPECIAL INSTRUCTIONS: 15°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman / Andrew D. Bryan

LAB STL Buffalo

COOLER 1 of 2

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (carb/bicarb); Total Hardness; Total Coliforms Met. Plate Ct.; Methyl Hg.

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO_3; 4 oz HDPE $Na_2S_2O_3$; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE $Na_2S_2O_3$	12 oz glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012A-P2	10/10/03	11:00	Grab	GW03-012A-P2	WG	–	1	1	2	1						N1	–	–	–
Field QC	10/10/03	12:30	Grab	EB1-10/10/03	WQ	–	1	1	2	1									

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
			[illegible]	10-10-03	13:50
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[illegible]	10/10/03	13:50			

SPECIAL INSTRUCTIONS: 13°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

97/1235

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Braymer / Andrew S Braymer

LAB STL Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

10/13/03

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA-HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2378 TCDD) (1L Amber)	Metals/ Total Hg (16oz HDPE HNO3)	TDS/TSS/ Cr+6 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
~~GW03-014B-P6~~	~~10/13/03~~	~~11:30~~	~~Grab~~	~~GW03-014B-P6~~	~~WG~~	~~19~~	~~3~~	~~2~~	~~2~~	~~2~~	~~1~~	~~2~~	~~1~~	~~1~~		~~N~~	~~-~~	~~-~~	~~-~~
Field QC	10/13/03	—	—	TB1-10/13/03	WQ	2	2								Trip blank (Colin)	W	+ Andy	B)	
GW03-09AP3	10/13/03	12:35	Grab	GW03-09AP3	WG	19	3	2	2	2	1	2	1	1		N	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE) Andrew S Braymer	10/13/03	14:15	RECEIVED FOR LAB BY (SIGNATURE) STL	10-13-03	14:15

SPECIAL INSTRUCTIONS
* Samples Shipped on ice
8.0 / SAME DAY

Distribution: Original accompanies shipment, copy to coordinator field files

98/1411

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman [illegible]

LAB STL Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity Scan (6 Lab); Total Hardness; Total Cyanide Hex. Plate Ox; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	12 oz glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
~~GW03-014B-P6~~	~~10/13/03~~	~~11:30~~	~~G/G~~	~~GW03-014B-P6~~	~~WG~~	~~1~~	~~1~~	~~1~~	~~2~~	~~1~~						~~N1~~	~~-~~	~~-~~	~~-~~
GW03-09A-P3	10/13/03	12:35	G/G	GW03-09A-P3	WG	-	1	1	2	1						N1	-	-	-

10/13/03

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andy Brayman	10/13/03	14:15	[illegible] STL	10/13/03	14:15

SPECIAL INSTRUCTIONS

* Samples shipped on ice

Distribution: Original accompanies shipment, copy to coordinator field files

99/1411

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman / Andrew B. Brayman

LAB STL Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8 TCDD) (1L Amber)	Metals/ Total Hg (16 oz HDPE HNO3)	TDS/TSS/ Cl-/SO4 (16 oz NDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (FRPIMS)
GW03-015A-P2	10/13/03	18:30	Grab	GW03-015A-P2	WG	19	3	2	2	2	1	2	1	1		N.	-	-	-
Field QC	10/13/03	-	-	TB3 - 10/13/03	WQ	2	2								Trip Blank (Coliform)		W + And, B		

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew B Brayman	10/14/03	06:32	[illegible]	10/14/03	0635

SPECIAL INSTRUCTIONS

SHIPMENT = 3 COOLERS @ 2°C, 3°C, 2°C.

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

KEK

220/2452

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Blayman / Andrew B Bayer

LAB STL Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (Calc/Bicarb), Total Hardness; Total coliforms, Hetr. Plate Ct; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO_3; 4 oz HDPE $Na_2S_2O_3$; 12 oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE $Na_2S_2O_3$	12 oz Glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P2	10/13/03	10:30	Grab	GW03-015A-P2	WG	–	1	1	2	1						N	–	–	–

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew B Bayer	10/14/03	06:32	K E Kasperek	10/14/03	0635

SPECIAL INSTRUCTIONS: SHIPMENT = 3 COOLERS @ 2°C, 3°C, 2°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

221/2452

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) J. GRADY, M. NEMETH

LAB SJL BUFFALO

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: TCL VOCs; TOC; TCL PESTICIDES; TCL PCBs; DIOXIN (2,3,7,8-TCDD); TCL SVOCs; METALS/TOTAL Hg; TDS/TSS/Cl⁻, SO₄

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1 L AMBER; 1 L AMBER; 1 L AMBER; 1 L AMBER; 16 oz HDPE HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1 L AMBER	1 L AMBER	1 L AMBER	1 L AMBER	16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010A-P2	10/13/03	1510	G	GW03-010A-P2	WG	19	3	2	2	1	2	2	1	1		N1	-	-	-
GW03-013A-P3	10/13/03	1645	G	GW03-013A-P3	WG	19	3	2	2	1	2	2	1	1		N1	-	-	-
GW03-011A-P3	10/13/03	1815	G	GW03-011A-P3	WG	19	3	2	2	1	2	2	1	1		N1	-	-	-
FIELD QC	10/13/03	—	—	TB2 - 10/13/03	WQ	2	2									TB2	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/13/03	1845	[signature]	10/13/03	19:30
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	10/14/03	06:32	[signature]	10/14/03	0635

SPECIAL INSTRUCTIONS

SHIPMENT = 3 COOLERS @ 2°C, 3°C, 2°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

222/2452

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) J. Gray, M. Nemeth

LAB SOL BUFFALO

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: NA

TESTS: Alkalinity (Carb/Bicarb), Total Hardness, Total Coliforms, Het. Plate Ct., Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO_3; 4 oz HDPE $Na_2S_2O_3$; 12 oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE $Na_2S_2O_3$	12 oz Glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010A-P2	10/13/03	1510	G	GW03-010A-P2	WG	-	1	1	2	1						N1	-	-	-
GW03-013A-P3	10/13/03	1645	G	GW03-013A-P3	WG	-	1	1	2	1						N1	-	-	-
GW03-011A-P3	10/13/03	1815	G	GW03-011A-P3	WG	-	1	1	2	1						N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	10/13/03	1845	[signature]	10/13/03	19:30
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	10/14/03	06:32	[signature]	10/14/03	0635

SPECIAL INSTRUCTIONS: Shipment = 3 coolers @ 2°C, 3°C, 2°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

223/2452

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman, Gerry Grady, Colin Wasteneys, Dan Tobin, Tom Urban, Matt Holquist

LAB STL Buffalo

COOLER ____ of 2

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8 TCDD); Metals/Total Hg; TDS/TSS; Cl, SO4

BOTTLE TYPE AND PRESERVATIVE: 40mL VOA; 40mL VOA-HCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16 oz HDPE - HNO_3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40mL VOA	40mL VOA-HCl	1L Amber	1L Amber	1L Amber	1L Amber	16 oz HDPE - HNO_3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (PRPIMS)
GW03-014A-P1	10/14/03	0945	Grab	GW03-014A-P1	WG	13	3	2	1	1	1	1	1	1		N1	-	-	-
GW03-014A-P2	10/14/03	1100	Grab	GW03-014A-P2	WG	7	3		1				1			N2	-	-	-
GW03-013A-P2	10/14/03	1050	Grab	GW03-013A-P2	WG	19	3	2	2	2	1	2	1	1		N2	-	-	-
↓	↓	↓	↓	GW03-013A-P2-MS	WQ	19	3	2	2	2	1	2	1	1		MS1	-	-	-
↓	↓	↓	↓	GW03-013A-P2-MSD	WQ	19	3	2	2	2	1	2	1	1		SD1	-	-	-
GW03-011A-P2	10/14/03	1020	Grab	GW03-011A-P2	WG	19	3	2	2	2	1	2	1	1		N3	-	-	-
	↓	↓	↓	GW03-011A-P2-MS	WQ	19	3	2	2	2	1	2	1	1		MS2	-	-	-
	↓	↓	↓	GW03-011A-P2-MSD	WQ	19	3	2	2	2	1	2	1	1		SD2	-	-	-
Field QC	10/14/03	1330	Grab	EB1-10/14/03	WQ	19	3	2	2	2	1	2	1	1		RB1	-	-	-
GW03-010A-P3	10/14/03	1210	Grab	GW03-010A-P3	WG	5	3	2								N5	-	-	-
Field QC	10/14/03		Grab	TB1-10/14/03	WQ	2	2									TB1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tom Urban	10/14/03	14:15			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			STL	10-14-03	14:15

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

6 @ 4.4°C

URSF-075C/1 OF 1/CofCR/GCM

219/2452

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman, Gerry Grady, Colin Wasteneys, Dan Tobin, Tom Urban, Matt Holquist

LAB STL - Buffalo

COOLER ____ of 2

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (Carb/bicarb), Total Hardness, Total Coliforms, Hot. Pt. Ct., Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 12 oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	12 oz Glass	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014A-P1	10/14/03	0945	Grab	GW03-014A-P1	WG		1	1				N1	–	–	–
GW03-014A-P2	10/14/03	1100	Grab	GW03-014A-P2	WG		1	1				N2	–	–	–
GW03-013A-P2	10/14/03	1050	Grab	GW03-013A-P2	WG		1	1	2	1		N3	–	–	–
↓	↓	↓	↓	GW03-013A-P2-MS	WQ		1	1	2	1		MS1	–	–	–
↓	↓	↓	↓	GW03-013A-P2-MSD	WQ		1	1	2	1		SD1	–	–	–
GW03-011A-P2	10/14/03	1020	Grab	GW03-011A-P2	WG		1	1	2	1		N4	–	–	–
↓	↓	↓	↓	GW03-011A-P2-MS	WQ		1	1	2	1		MS2	–	–	–
↓	↓	↓	↓	GW03-011A-P2-MSD	WQ		1	1	2	1		SD2	–	–	–
Field QC	10/14/03	1330	Grab	EB1-10/14/03	WQ		1	1	2	1		RB1	–	–	–
GW03-010A-P3	10/14/03	1210	Grab	GW03-010A-P3	WG							N5	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tom Urban	10/14	14:15			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			STL	10-21-03	14:15

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

6.0 4.4°C

URSF-075C/1 OF 1/CofCR/GCM

218/2452

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Braymer/Andrew S. Berger

LAB STL Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2378 TCDD); Metals/Total Hg; TDS/TSS/Cr+/SO4

BOTTLE TYPE AND PRESERVATIVE: 40mL VOA; 40mL VOA-HCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16oz HDPE HNO3; 16oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40mL VOA	40mL VOA-HCl	1L Amber	1L Amber	1L Amber	1L Amber	16oz HDPE HNO3	16oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007B-P5	10/14/03	14:20	Grab	GW03-007B-P5	WG	19	3	2	2	2	1	2	1	1		N.	–	–	–
GW03-015A-P3	10/14/03	16:00	Grab	GW03-015A-P3	WG	3	3									N.	–	–	–
Field QC	10/14/03	–	–	TB2-10/14/03	WQ	2	2								Trip blank (Colin W. + Andy B.)				

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew S. Berger	10/15/03	06:35	[signature]	10/15/2003	0638

SPECIAL INSTRUCTIONS: *Shipped on ice. Shipment = ONE COOLER @ 3°C. REK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

147/1857

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman / Andrew B Brayman

LAB STL Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity Carb/Bicarb; Total Hardness; Total Cl/Fluoride Hot Plate Cl.; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO3; 4 oz HDPE NaOH; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE NaOH	12 oz glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO # (ERPIMS)
GW03-007B-PS	12/14/03	14:20	Grab	GW03-007B-PS	WG	–	1	1	2	1						N	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andrew B Brayman	12/15/03	06:35	[illegible]	12/15/2003	0638

SPECIAL INSTRUCTIONS: *Shipped on ice
SHIPMENT = ONE COOLER @ 3°C.
REK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

149/1857

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Blayney / Andrew B Blayney Tom Urban

LAB STL Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (C2378 TCDD); Metals / Total Hg; TOX / TSS / Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 40mL VOA; 40mL VOA-NaCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16 oz HDPE HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40mL VOA	40mL VOA-NaCl	1L Amber	1L Amber	1L Amber	1L Amber	16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012A-P3	10/15/03	8:45	Grab	GW03-012A-P3	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC	10/15/03	–	–	TB1 - 10/15/03	WQ	2	2								Trip blank (Andy B / Tom U)				
GW03-013B-P6	10/15/03	10:15	Grab	GW03-013B-P6	WG	9	3	2	1	1			1			N1	–	–	–
GW03-013C-P7	10/15/03	10:15	Grab	GW03-013C-P7	WG	1			1							N1	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
Andrew B Blayney	10/15/03	12:30	Mark M. Nagel STL-Buffalo	10/15/03	12:32

SPECIAL INSTRUCTIONS: Same Day 10°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Blayman / [illegible] Tom Urban

LAB STL Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	Alkalinity (carbonate/bicarb) 8 oz HDPE	Total Hardness 4 oz NDPE HNO3	Total Coliform, Het. Plate Ct 4 oz HDPE Na2S2O3	Mercury, 1 Hg 12 oz Glass					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012A-P3	10/15/03	8:45	Grab	GW03-012A-P3	WG	—	1	1	2	1						N1	—	—	—
GW03-013B-P6	10/15/03	10:15	Grab	GW03-013B-P6	WG	—		1								N1	—	—	—

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[illegible]	10/15/03	12:30	[illegible] STL Buffalo	10/15/03	12:32

SPECIAL INSTRUCTIONS

Same Day
10°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

148/1857

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INITIAL CALIBRATION DATA

Lab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001179-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092403

Intrument ID: I50L Calibration Dates(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Calibration Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

Lab File ID: RRF1 = L1464.RR RRF4 = L1463.RR
RRF10 = L1462.RR RRF20 = L1461.RR RRF40 = L1460.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Acetone	0.015	0.014	0.014	0.016	0.018	0.0160	10.900
Benzene	0.907	0.738	0.805	0.945	1.039	0.8870	13.300
Bromodichloromethane	0.504	0.461	0.570	0.621	0.646	0.5600	13.800
Bromoform	0.172	0.176	0.240	0.292	0.282	0.2320	24.300
Bromomethane	0.163	0.209	0.195	0.227	0.262	0.2110	17.500
2-Butanone	0.016	0.020	0.022	0.026	0.029	0.0220	21.400
Methyl acetate	0.083	0.085	0.082	0.095	0.100	0.0890	9.000
Cyclohexane	0.378	0.441	0.407	0.453	0.479	0.4320	9.200
Methylcyclohexane	0.386	0.465	0.439	0.488	0.504	0.4560	10.200
Carbon Disulfide	0.549	0.664	0.646	0.756	0.822	0.6870	15.300
Carbon Tetrachloride	0.598	0.512	0.637	0.715	0.751	0.6420	14.800
Chlorobenzene	1.082	0.908	1.024	1.094	1.051	1.0320	7.200
Chloroethane	0.137	0.172	0.153	0.166	0.185	0.1620	11.200
Chloroform	0.820	0.641	0.715	0.779	0.851	0.7610	11.100
Chloromethane	0.193	0.228	0.201	0.226	0.238	0.2170	8.800
Dibromochloromethane	0.374	0.353	0.455	0.507	0.518	0.4410	17.100
1,2-Dibromo-3-chloropropane	0.061	0.067	0.092	0.108	0.116	0.0890	27.500
1,2-Dibromoethane	0.301	0.266	0.310	0.338	0.342	0.3110	9.900
1,2-Dichlorobenzene	1.507	1.161	1.281	1.410	1.338	1.3400	9.800
1,3-Dichlorobenzene	1.798	1.427	1.564	1.724	1.621	1.6270	8.800
1,4-Dichlorobenzene	1.851	1.482	1.578	1.711	1.646	1.6530	8.400
Dichlorodifluoromethane	0.300	0.404	0.366	0.411	0.416	0.3790	12.800
1,1-Dichloroethane	0.629	0.529	0.592	0.653	0.698	0.6200	10.300
1,2-Dichloroethane	0.313	0.264	0.306	0.329	0.348	0.3120	10.000
1,1-Dichloroethene	0.277	0.228	0.268	0.296	0.300	0.2740	10.500
cis-1,2-Dichloroethene	0.269	0.273	0.304	0.336	0.346	0.3050	11.600
trans-1,2-Dichloroethene	0.317	0.267	0.303	0.335	0.346	0.3140	9.900
1,2-Dichloropropane	0.362	0.291	0.335	0.368	0.382	0.3480	10.300
cis-1,3-Dichloropropene	0.376	0.344	0.431	0.490	0.515	0.4310	16.900
trans-1,3-Dichloropropene	0.287	0.291	0.387	0.440	0.449	0.3710	21.100
Ethylbenzene	1.805	1.504	1.707	1.830	1.723	1.7140	7.500
2-Hexanone	0.059	0.071	0.075	0.087	0.090	0.0760	16.600
Isopropylbenzene	3.297	2.697	3.073	3.454	3.424	3.1890	9.800
Methylene chloride	0.435	0.242	0.238	0.257	0.270	0.2880	28.800
4-Methyl-2-pentanone	0.109	0.118	0.121	0.138	0.144	0.1260	11.400
Styrene	0.926	0.809	0.967	1.006	0.949	0.9310	8.000
1,1,2,2-Tetrachloroethane	0.515	0.413	0.486	0.541	0.534	0.4980	10.500

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INITIAL CALIBRATION DATA

Lab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001188-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092503

Intrument ID: I50K Calibration Dates(s): 09/09/2003 09/09/2003

Heated Purge (Y/N): N Calibration Times: 10:27 13:45

GC Column: DB-624 ID: 0.53 (mm)

Lab File ID: RRF1 = K3973.RR RRF4 = K3972.RR
RRF10 = K3971.RR RRF20 = K3970.RR RRF40 = K3969.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Acetone	0.025	0.021	0.019	0.020	0.021	0.0210	10.400
Benzene	1.290	1.060	1.163	1.212	1.179	1.1810	7.100
Bromodichloromethane	0.555	0.483	0.578	0.632	0.584	0.5660	9.600
Bromoform	0.282	0.299	0.342	0.390	0.381	0.3390	14.200
Bromomethane	0.272	0.267	0.321	0.401	0.398	0.3320	19.700
2-Butanone	0.025	0.025	0.029	0.032	0.032	0.0280	12.000
Methyl acetate	0.065	0.067	0.061	0.089	0.086	0.0730	17.400
Cyclohexane	0.759	0.665	0.613	0.837	0.863	0.7470	14.500
Methylcyclohexane	0.642	0.545	0.481	0.666	0.665	0.6000	13.900
Carbon Disulfide	1.168	1.005	0.991	1.312	1.414	1.1780	15.800
Carbon Tetrachloride	0.660	0.591	0.706	0.777	0.744	0.6950	10.500
Chlorobenzene	1.362	0.975	1.069	1.111	1.159	1.1350	12.700
Chloroethane	0.338	0.280	0.319	0.321	0.367	0.3250	9.700
Chloroform	0.922	0.705	0.774	0.830	0.785	0.8030	10.000
Chloromethane	0.416	0.332	0.363	0.392	0.434	0.3870	10.600
Dibromochloromethane	0.360	0.327	0.393	0.413	0.412	0.3810	9.700
1,2-Dibromo-3-chloropropane	0.074	0.071	0.088	0.098	0.084	0.0830	13.400
1,2-Dibromoethane	0.307	0.242	0.267	0.277	0.269	0.2720	8.500
1,2-Dichlorobenzene	1.387	1.076	1.257	1.259	1.281	1.2520	8.900
1,3-Dichlorobenzene	1.848	1.525	1.771	2.025	2.149	1.8640	12.900
1,4-Dichlorobenzene	1.772	1.545	1.676	1.791	1.673	1.6910	5.800
Dichlorodifluoromethane	0.548	0.454	0.502	0.492	0.566	0.5120	8.800
1,1-Dichloroethane	0.919	0.776	0.860	0.916	0.872	0.8680	6.700
1,2-Dichloroethane	0.332	0.272	0.294	0.321	0.287	0.3010	8.200
1,1-Dichloroethene	0.447	0.394	0.443	0.500	0.512	0.4590	10.400
cis-1,2-Dichloroethene	0.380	0.330	0.381	0.409	0.396	0.3790	7.900
trans-1,2-Dichloroethene	0.411	0.351	0.412	0.455	0.456	0.4170	10.200
1,2-Dichloropropane	0.464	0.369	0.421	0.428	0.397	0.4160	8.600
cis-1,3-Dichloropropene	0.434	0.386	0.445	0.479	0.439	0.4370	7.600
trans-1,3-Dichloropropene	0.406	0.341	0.388	0.406	0.383	0.3850	6.900
Ethylbenzene	2.674	2.031	2.150	2.334	2.524	2.3420	11.200
2-Hexanone	0.098	0.077	0.090	0.094	0.092	0.0900	9.000
Isopropylbenzene	5.246	4.400	4.608	4.668	4.450	4.6740	7.200
Methylene chloride	0.413	0.269	0.266	0.292	0.269	0.3020	21.000
4-Methyl-2-pentanone	0.157	0.132	0.144	0.160	0.155	0.1490	7.800
Styrene	1.052	0.836	0.985	1.022	1.037	0.9860	8.900
1,1,2,2-Tetrachloroethane	0.511	0.463	0.485	0.512	0.503	0.4950	4.200

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INITIAL CALIBRATION DATA

Lab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001278-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092903

Intrument ID: I50M Calibration Dates(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Calibration Times: 11:17 15:12

GC Column: DB-624 ID: 0.53 (mm)

Lab File ID: RRF1 = M4705.RR RRF4 = M4704.RR
RRF10 = M4701.RR RRF20 = M4700.RR RRF40 = M4699.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Chloromethane	0.565	0.534	0.418	0.443	0.463	0.4840	12.900
Bromomethane	0.252	0.251	0.230	0.233	0.239	0.2410	4.100
Vinyl chloride	0.438	0.400	0.381	0.402	0.407	0.4060	5.000
Chloroethane	0.315	0.316	0.263	0.278	0.308	0.2960	8.200
Methylene chloride	0.507	0.366	0.340	0.325	0.332	0.3740	20.300
Acetone	0.042	0.035	0.032	0.031	0.030	0.0340	14.000
Carbon Disulfide	1.050	1.007	1.009	1.052	1.144	1.0520	5.300
1,1-Dichloroethene	0.316	0.258	0.270	0.276	0.286	0.2810	7.800
1,1-Dichloroethane	0.904	0.745	0.721	0.738	0.724	0.7660	10.100
cis-1,2-Dichloroethene	0.389	0.329	0.372	0.400	0.383	0.3740	7.400
trans-1,2-Dichloroethene	0.441	0.351	0.395	0.406	0.376	0.3940	8.600
Chloroform	0.820	0.635	0.639	0.668	0.595	0.6710	12.900
1,2-Dichloroethane	0.393	0.324	0.336	0.359	0.319	0.3460	8.800
2-Butanone	0.047	0.052	0.051	0.055	0.053	0.0510	6.100
1,1,1-Trichloroethane	0.558	0.443	0.489	0.517	0.476	0.4970	8.800
Carbon Tetrachloride	0.425	0.352	0.419	0.444	0.398	0.4070	8.600
Vinyl acetate	0.290	0.323	0.331	0.359	0.346	0.3300	7.900
Bromodichloromethane	0.418	0.359	0.385	0.395	0.368	0.3850	6.000
1,2-Dichloropropane	0.389	0.334	0.358	0.378	0.363	0.3640	5.800
cis-1,3-Dichloropropene	0.367	0.344	0.415	0.437	0.433	0.3990	10.400
Trichloroethene	0.383	0.313	0.345	0.363	0.353	0.3510	7.400
Dibromochloromethane	0.194	0.180	0.212	0.229	0.214	0.2060	9.200
1,1,2-Trichloroethane	0.157	0.156	0.171	0.184	0.172	0.1680	6.900
Benzene	1.630	1.354	1.443	1.548	1.535	1.5020	7.000
trans-1,3-Dichloropropene	0.340	0.311	0.368	0.419	0.390	0.3650	11.500
Bromoform	0.182	0.177	0.211	0.216	0.222	0.2020	10.200
4-Methyl-2-pentanone	0.119	0.135	0.148	0.160	0.153	0.1430	11.400
2-Hexanone	0.075	0.084	0.091	0.103	0.098	0.0900	12.300
Tetrachloroethene	0.433	0.377	0.400	0.452	0.431	0.4190	7.100
1,1,2,2-Tetrachloroethane	0.418	0.375	0.405	0.397	0.393	0.3970	4.000
Toluene	1.086	1.017	1.121	1.200	1.177	1.1200	6.500
Chlorobenzene	1.207	0.966	0.968	1.037	0.998	1.0350	9.700
Ethylbenzene	1.945	1.756	1.931	1.996	1.889	1.9030	4.800
Styrene	0.943	0.890	1.008	1.056	1.022	0.9840	6.800
Total Xylenes	0.582	0.603	0.647	0.680	0.665	0.6350	6.600
1,1,2-Trichloro-1,2,2-trifl	0.250	0.256	0.263	0.273	0.292	0.2670	6.200
1,2,4-Trichlorobenzene	0.800	0.591	0.632	0.620	0.608	0.6500	13.100

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INITIAL CALIBRATION DATA

Lab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001278-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092903

Intrument ID: I50M Calibration Dates(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Calibration Times: 11:17 15:12

GC Column: DB-624 ID: 0.53 (mm)

Lab File ID: RRF1 = M4705.RR RRF4 = M4704.RR
RRF10 = M4701.RR RRF20 = M4700.RR RRF40 = M4699.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
1,2-Dibromo-3-chloropropane	0.024	0.032	0.048	0.048	0.046	0.0400	27.800
1,2-Dibromoethane	0.143	0.140	0.158	0.166	0.160	0.1530	7.400
1,2-Dichlorobenzene	1.325	1.122	1.109	1.057	1.077	1.1380	9.400
1,3-Dichlorobenzene	1.814	1.424	1.519	1.402	1.445	1.5210	11.200
1,4-Dichlorobenzene	1.969	1.504	1.513	1.359	1.406	1.5500	15.700
Cyclohexane	0.436	0.520	0.665	0.750	0.725	0.6190	22.000
Dichlorodifluoromethane	0.233	0.248	0.267	0.293	0.276	0.2630	9.000
Methyl acetate	0.154	0.130	0.120	0.127	0.125	0.1310	10.200
Trichlorofluoromethane	0.400	0.413	0.422	0.414	0.425	0.4150	2.400
Methyl tert butyl ether	0.395	0.384	0.390	0.414	0.374	0.3910	3.800
Isopropylbenzene	3.805	3.405	4.147	3.989	4.093	3.8880	7.700
Methylcyclohexane	0.343	0.419	0.537	0.597	0.598	0.4990	22.800
Toluene-D8	1.234	1.219	1.534	1.439	1.333	1.3520	10.000
p-Bromofluorobenzene	0.324	0.332	0.323	0.346	0.317	0.3280	3.300
1,2-Dichloroethane-D4	0.287	0.259	0.274	0.263	0.225	0.2610	8.800

Comments:

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005698-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092403

Lab File Id: K4359.RR Calibration Date: 09/25/2003 Time: 10:31

Intrument ID: I50K Init. Calib. Date(s): 09/09/2003 09/09/2003

Heated Purge (Y/N): N Init. Calib. Times: 10:27 13:45

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0210	0.0182	0.0100	13.300	100.00
Benzene	1.1810	1.1064	0.0100	6.300	100.00
Bromodichloromethane	0.5660	0.5415	0.0100	4.300	100.00
Bromoform	0.3390	0.3330	0.1000	1.800	100.00
Bromomethane	0.3320	0.2932	0.0100	11.700	100.00
2-Butanone	0.0280	0.0233	0.0100	16.800	100.00
Methyl acetate	0.0730	0.0561	0.0100	23.200	100.00
Cyclohexane	0.7470	0.6858	0.0100	8.200	100.00
Methylcyclohexane	0.6000	0.5793	0.0100	3.400	100.00
Carbon Disulfide	1.1780	1.2509	0.0100	-6.200	100.00
Carbon Tetrachloride	0.6950	0.8056	0.0100	-15.900	100.00
Chlorobenzene	1.1350	1.1505	0.3000	-1.400	100.00
Chloroethane	0.3250	0.3278	0.0100	-0.900	100.00
Chloroform	0.8030	0.8098	0.0100	-0.900	20.00
Chloromethane	0.3870	0.3724	0.1000	3.800	100.00
Dibromochloromethane	0.3810	0.3950	0.0100	-3.700	100.00
1,2-Dibromo-3-chloropropane	0.0830	0.0710	0.0100	14.400	100.00
1,2-Dibromoethane	0.2720	0.2562	0.0100	5.800	100.00
1,2-Dichlorobenzene	1.2520	1.3123	0.0100	-4.800	100.00
1,3-Dichlorobenzene	1.8640	1.8558	0.0100	0.400	100.00
1,4-Dichlorobenzene	1.6910	1.7959	0.0100	-6.200	100.00
Dichlorodifluoromethane	0.5120	0.5393	0.0100	-5.300	100.00
1,1-Dichloroethane	0.8680	0.8352	0.1000	3.800	100.00
1,2-Dichloroethane	0.3010	0.2883	0.0100	4.200	100.00
1,1-Dichloroethene	0.4590	0.5121	0.0100	-11.600	100.00
cis-1,2-Dichloroethene	0.3790	0.3985	0.0100	-5.100	100.00
trans-1,2-Dichloroethene	0.4170	0.4621	0.0100	-10.800	100.00
1,2-Dichloropropane	0.4160	0.3637	0.0100	12.600	20.00
cis-1,3-Dichloropropene	0.4370	0.3865	0.0100	11.600	100.00
trans-1,3-Dichloropropene	0.3850	0.3472	0.0100	9.800	100.00
Ethylbenzene	2.3420	2.2390	0.0100	4.400	20.00
2-Hexanone	0.0900	0.0660	0.0100	26.700	100.00
Isopropylbenzene	4.6740	4.6767	0.0100	-0.100	100.00
Methylene chloride	0.3020	0.2988	0.0100	1.000	100.00
4-Methyl-2-pentanone	0.1490	0.1151	0.0100	22.800	100.00
Styrene	0.9860	0.9208	0.0100	6.600	100.00
1,1,2,2-Tetrachloroethane	0.4950	0.4669	0.3000	5.700	100.00
Tetrachloroethene	0.8350	0.8585	0.0100	-2.800	100.00
Toluene	1.1130	1.0786	0.0100	3.100	20.00

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005769-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092503

Lab File Id: K4407.RR Calibration Date: 09/28/2003 Time: 11:59

Intrument ID: I50K Init. Calib. Date(s): 09/09/2003 09/09/2003

Heated Purge (Y/N): N Init. Calib. Times: 10:27 13:45

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0210	0.0183	0.0100	12.800	100.00
Benzene	1.1810	0.9835	0.0100	16.700	100.00
Bromodichloromethane	0.5660	0.4749	0.0100	16.100	100.00
Bromoform	0.3390	0.3095	0.1000	8.700	100.00
Bromomethane	0.3320	0.2947	0.0100	11.200	100.00
2-Butanone	0.0280	0.0234	0.0100	16.400	100.00
Methyl acetate	0.0730	0.0186	0.0100	74.500	100.00
Cyclohexane	0.7470	0.6380	0.0100	14.600	100.00
Methylcyclohexane	0.6000	0.5262	0.0100	12.300	100.00
Carbon Disulfide	1.1780	1.1542	0.0100	2.000	100.00
Carbon Tetrachloride	0.6950	0.6653	0.0100	4.300	100.00
Chlorobenzene	1.1350	0.9823	0.3000	13.400	100.00
Chloroethane	0.3250	0.3350	0.0100	-3.100	100.00
Chloroform	0.8030	0.7240	0.0100	9.800	20.00
Chloromethane	0.3870	0.3747	0.1000	3.200	100.00
Dibromochloromethane	0.3810	0.3470	0.0100	8.900	100.00
1,2-Dibromo-3-chloropropane	0.0830	0.0649	0.0100	21.800	100.00
1,2-Dibromoethane	0.2720	0.2355	0.0100	13.400	100.00
1,2-Dichlorobenzene	1.2520	1.1569	0.0100	7.600	100.00
1,3-Dichlorobenzene	1.8640	1.7292	0.0100	7.200	100.00
1,4-Dichlorobenzene	1.6910	1.5879	0.0100	6.100	100.00
Dichlorodifluoromethane	0.5120	0.6059	0.0100	-18.300	100.00
1,1-Dichloroethane	0.8680	0.7246	0.1000	16.500	100.00
1,2-Dichloroethane	0.3010	0.2432	0.0100	19.200	100.00
1,1-Dichloroethene	0.4590	0.4367	0.0100	4.800	100.00
cis-1,2-Dichloroethene	0.3790	0.3520	0.0100	7.100	100.00
trans-1,2-Dichloroethene	0.4170	0.3961	0.0100	5.000	100.00
1,2-Dichloropropane	0.4160	0.3342	0.0100	19.700	20.00
cis-1,3-Dichloropropene	0.4370	0.3471	0.0100	20.600	100.00
trans-1,3-Dichloropropene	0.3850	0.3086	0.0100	19.800	100.00
Ethylbenzene	2.3420	1.9282	0.0100	17.700	20.00
2-Hexanone	0.0900	0.0638	0.0100	29.100	100.00
Isopropylbenzene	4.6740	4.2431	0.0100	9.200	100.00
Methylene chloride	0.3020	0.2464	0.0100	18.400	100.00
4-Methyl-2-pentanone	0.1490	0.1097	0.0100	26.400	100.00
Styrene	0.9860	0.8036	0.0100	18.500	100.00
1,1,2,2-Tetrachloroethane	0.4950	0.4230	0.3000	14.500	100.00
Tetrachloroethene	0.8350	0.7503	0.0100	10.100	100.00
Toluene	1.1130	0.9163	0.0100	17.700	20.00

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005754-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092603

Lab File Id: L2175.RR Calibration Date: 09/29/2003 Time: 19:01

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0160	0.0194	0.0100	-21.200	100.00
Benzene	0.8870	0.9837	0.0100	-10.900	100.00
Bromodichloromethane	0.5600	0.6285	0.0100	-12.200	100.00
Bromoform	0.2320	0.2567	0.1000	-10.600	100.00
Bromomethane	0.2110	0.2640	0.0100	-25.100	100.00
2-Butanone	0.0220	0.0283	0.0100	-28.600	100.00
Methyl acetate	0.0890	0.0824	0.0100	7.400	100.00
Cyclohexane	0.4320	0.5373	0.0100	-24.400	100.00
Methylcyclohexane	0.4560	0.5361	0.0100	-17.600	100.00
Carbon Disulfide	0.6870	0.8290	0.0100	-20.700	100.00
Carbon Tetrachloride	0.6420	0.7880	0.0100	-22.700	100.00
Chlorobenzene	1.0320	1.1244	0.3000	-9.000	100.00
Chloroethane	0.1620	0.1871	0.0100	-15.500	100.00
Chloroform	0.7610	0.8878	0.0100	-16.700	20.00
Chloromethane	0.2170	0.2248	0.1000	-3.600	100.00
Dibromochloromethane	0.4410	0.4852	0.0100	-10.000	100.00
1,2-Dibromo-3-chloropropane	0.0890	0.0905	0.0100	-1.700	100.00
1,2-Dibromoethane	0.3110	0.3347	0.0100	-7.600	100.00
1,2-Dichlorobenzene	1.3400	1.3992	0.0100	-4.400	100.00
1,3-Dichlorobenzene	1.6270	1.7409	0.0100	-7.000	100.00
1,4-Dichlorobenzene	1.6530	1.7132	0.0100	-3.600	100.00
Dichlorodifluoromethane	0.3790	0.4116	0.0100	-8.600	100.00
1,1-Dichloroethane	0.6200	0.7269	0.1000	-17.200	100.00
1,2-Dichloroethane	0.3120	0.3921	0.0100	-25.700	100.00
1,1-Dichloroethene	0.2740	0.3072	0.0100	-12.100	100.00
cis-1,2-Dichloroethene	0.3050	0.3567	0.0100	-17.000	100.00
trans-1,2-Dichloroethene	0.3140	0.3526	0.0100	-12.300	100.00
1,2-Dichloropropane	0.3480	0.3676	0.0100	-5.600	20.00
cis-1,3-Dichloropropene	0.4310	0.4690	0.0100	-8.800	100.00
trans-1,3-Dichloropropene	0.3710	0.4040	0.0100	-8.900	100.00
Ethylbenzene	1.7140	1.9508	0.0100	-13.800	20.00
2-Hexanone	0.0760	0.0884	0.0100	-16.300	100.00
Isopropylbenzene	3.1890	3.4033	0.0100	-6.700	100.00
Methylene chloride	0.2880	0.2892	0.0100	-0.400	100.00
4-Methyl-2-pentanone	0.1260	0.1503	0.0100	-19.300	100.00
Styrene	0.9310	1.0309	0.0100	-10.700	100.00
1,1,2,2-Tetrachloroethane	0.4980	0.5299	0.3000	-6.400	100.00
Tetrachloroethene	0.6710	0.7416	0.0100	-10.500	100.00
Toluene	0.8440	0.9185	0.0100	-8.800	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005754-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092603

Lab File Id: L2175.RR Calibration Date: 09/29/2003 Time: 19:01

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9400	0.9825	0.0100	-4.500	100.00
1,1,1-Trichloroethane	0.7030	0.8372	0.0100	-19.100	100.00
1,1,2-Trichloroethane	0.2270	0.2476	0.0100	-9.100	100.00
Trichloroethene	0.4400	0.4880	0.0100	-10.900	100.00
Trichlorofluoromethane	0.7750	0.9810	0.0100	-26.600	100.00
Vinyl chloride	0.2400	0.2482	0.0100	-3.400	20.00
Total Xylenes	0.6190	0.6778	0.0100	-9.500	100.00
Methyl tert butyl ether	0.3690	0.4396	0.0100	-19.100	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.5600	0.7119	0.0100	-27.100	100.00
Vinyl acetate	0.2370	0.2958	0.0100	-24.800	100.00
1,2-Dichloroethane-D4	0.2660	0.3261	0.0100	-22.600	100.00
Toluene-D8	1.1920	1.2638	0.0100	-6.000	100.00
p-Bromofluorobenzene	0.5070	0.5484	0.0100	-8.200	100.00

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CONTINUING CALIBRATION CHECK

ıab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005956-1

ıab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092903

ıab File Id: M4801.RR Calibration Date: 10/03/2003 Time: 09:59

:ntrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Ieated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

ɜC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4707	0.0100	27.600	100.00
1,1,1-Trichloroethane	0.4970	0.4465	0.0100	10.200	100.00
1,1,2-Trichloroethane	0.1680	0.1584	0.0100	5.700	100.00
Trichloroethene	0.3510	0.3133	0.0100	10.700	100.00
Trichlorofluoromethane	0.4150	0.4292	0.0100	-3.400	100.00
Vinyl chloride	0.4060	0.4392	0.0100	-8.200	20.00
Total Xylenes	0.6350	0.6204	0.0100	2.300	100.00
Methyl tert butyl ether	0.3910	0.3532	0.0100	9.700	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3134	0.0100	-17.400	100.00
Vinyl acetate	0.3300	0.3144	0.0100	4.700	100.00
1,2-Dichloroethane-D4	0.2610	0.2693	0.0100	-3.200	100.00
Toluene-D8	1.3520	1.5515	0.0100	-14.800	100.00
p-Bromofluorobenzene	0.3280	0.3242	0.0100	1.200	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005962-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100103

Lab File Id: P1941.RR Calibration Date: 10/03/2003 Time: 19:16

Intrument ID: HP5973P Init. Calib. Date(s): 10/03/2003 10/03/2003

Heated Purge (Y/N): N Init. Calib. Times: 09:22 15:19

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0300	0.0399	0.0100	-33.000	100.00
Benzene	1.5840	1.7423	0.0100	-10.000	100.00
Bromodichloromethane	0.4640	0.5355	0.0100	-15.400	100.00
Bromoform	0.1780	0.1882	0.1000	-5.700	100.00
Bromomethane	0.1760	0.1980	0.0100	-12.500	100.00
2-Butanone	0.0440	0.0560	0.0100	-27.300	100.00
Methyl acetate	0.0810	0.1159	0.0100	-43.100	100.00
Cyclohexane	0.6640	0.7738	0.0100	-16.500	100.00
Methylcyclohexane	0.6620	0.7494	0.0100	-13.200	100.00
Carbon Disulfide	1.2930	1.4864	0.0100	-15.000	100.00
Carbon Tetrachloride	0.5490	0.6454	0.0100	-17.600	100.00
Chlorobenzene	1.1660	1.2831	0.3000	-10.000	100.00
Chloroethane	0.2020	0.2461	0.0100	-21.800	100.00
Chloroform	0.7750	0.8804	0.0100	-13.600	20.00
Chloromethane	0.4550	0.6279	0.1000	-38.000	100.00
Dibromochloromethane	0.2230	0.2534	0.0100	-13.600	100.00
1,2-Dibromo-3-chloropropane	0.0690	0.0795	0.0100	-15.200	100.00
1,2-Dibromoethane	0.1870	0.2106	0.0100	-12.600	100.00
1,2-Dichlorobenzene	1.3660	1.5413	0.0100	-12.800	100.00
1,3-Dichlorobenzene	1.6680	1.8884	0.0100	-13.200	100.00
1,4-Dichlorobenzene	1.6430	1.8562	0.0100	-13.000	100.00
Dichlorodifluoromethane	0.5330	0.6344	0.0100	-19.000	100.00
1,1-Dichloroethane	0.7420	0.8545	0.1000	-15.200	100.00
1,2-Dichloroethane	0.4220	0.4829	0.0100	-14.400	100.00
1,1-Dichloroethene	0.3510	0.3935	0.0100	-12.100	100.00
cis-1,2-Dichloroethene	0.3900	0.4504	0.0100	-15.500	100.00
trans-1,2-Dichloroethene	0.3810	0.4399	0.0100	-15.400	100.00
1,2-Dichloropropane	0.3580	0.3944	0.0100	-10.200	20.00
cis-1,3-Dichloropropene	0.5210	0.5897	0.0100	-13.200	100.00
trans-1,3-Dichloropropene	0.4770	0.5500	0.0100	-15.300	100.00
Ethylbenzene	2.4500	2.8538	0.0100	-16.500	20.00
2-Hexanone	0.0780	0.0943	0.0100	-20.900	100.00
Isopropylbenzene	4.3740	4.9947	0.0100	-14.200	100.00
Methylene chloride	0.4280	0.4491	0.0100	-4.900	100.00
4-Methyl-2-pentanone	0.1230	0.1402	0.0100	-14.000	100.00
Styrene	1.2440	1.5500	0.0100	-24.600	100.00
1,1,2,2-Tetrachloroethane	0.4170	0.4400	0.3000	-5.500	100.00
Tetrachloroethene	0.3880	0.4293	0.0100	-10.600	100.00
Toluene	1.1980	1.3213	0.0100	-10.300	20.00

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GCMS VOLATILE INJECTION LOG

DATE	TIME	ANALYST	FILE #	SAMPLE ID	JOB #	INJ. VOL.	EXT. WHT.	D.F.	SYR. #	STANDARD MIX #	I.S.
10/8/03	1637	DC	P1936	VBLK93	—	25.1	—	1	—	—	
	1707		P1937	A3917101 B	9171			1			
	1746		P1938	02 B				1			
	1824		P1939	03 B				1			
10/10/03	1856	DC	P1940	10DJJFDP2						WS 1F-1	
	1916		P1941	VSTD010						WS6K-5, WS12K-5, WS18AC-2, WS20W-5	
	1957		P1942	MSD Fuel						, WS4K-3, WS2W-5	
	2018		P1943	LCALOHK						, WS12K-5, WS18AC-2, WS20W-5	
	2104		P1944	VBLK94							
	2139		P1945	A3944901	9449			1			
	2214		P1946	A3J0804	9J08			1			
	2250		P1947	A3SD801	9SD8			1			
	2325		P1948	A3H8801	9H88			1			
10/10/03	0001		P1949	01				1			
	0036		P1950	02				1			
	0112		P1951	A3J8201	9J82			1			
	0147		P1952	A3SD801	9SD8			2			
	0222		P1953	02				1			
	0258		P1954	A3J0803	9J08			100			
	0333		P1955	02				20			
	0409		P1956	01				20			
	0444		P1957	A3944901	9449			1			
	0519		P1958	02				1			
	0555		P1959	02				1			
	0630		P1960	02MS				1		WS2H-5	
	0706		P1961	02Sm				1			

SEVERN TRENT LABORATORIES, INC. 000098 Reviewed By DC NO.

344/2083

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005981-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100203

Lab File Id: L2310.RR Calibration Date: 10/04/2003 Time: 12:03

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0160	0.0201	0.0100	-25.600	100.00
Benzene	0.8870	0.9097	0.0100	-2.600	100.00
Bromodichloromethane	0.5600	0.6002	0.0100	-7.200	100.00
Bromoform	0.2320	0.2287	0.1000	1.400	100.00
Bromomethane	0.2110	0.2216	0.0100	-5.000	100.00
2-Butanone	0.0220	0.0281	0.0100	-27.700	100.00
Methyl acetate	0.0890	0.0803	0.0100	9.800	100.00
Cyclohexane	0.4320	0.4810	0.0100	-11.300	100.00
Methylcyclohexane	0.4560	0.4800	0.0100	-5.300	100.00
Carbon Disulfide	0.6870	0.7319	0.0100	-6.500	100.00
Carbon Tetrachloride	0.6420	0.7525	0.0100	-17.200	100.00
Chlorobenzene	1.0320	0.9831	0.3000	4.700	100.00
Chloroethane	0.1620	0.1739	0.0100	-7.400	100.00
Chloroform	0.7610	0.8607	0.0100	-13.100	20.00
Chloromethane	0.2170	0.2114	0.1000	2.600	100.00
Dibromochloromethane	0.4410	0.4384	0.0100	0.600	100.00
1,2-Dibromo-3-chloropropane	0.0890	0.0848	0.0100	4.700	100.00
1,2-Dibromoethane	0.3110	0.2966	0.0100	4.600	100.00
1,2-Dichlorobenzene	1.3400	1.2510	0.0100	6.600	100.00
1,3-Dichlorobenzene	1.6270	1.5297	0.0100	6.000	100.00
1,4-Dichlorobenzene	1.6530	1.5462	0.0100	6.500	100.00
Dichlorodifluoromethane	0.3790	0.4331	0.0100	-14.300	100.00
1,1-Dichloroethane	0.6200	0.6738	0.1000	-8.700	100.00
1,2-Dichloroethane	0.3120	0.3898	0.0100	-24.900	100.00
1,1-Dichloroethene	0.2740	0.2701	0.0100	1.400	100.00
cis-1,2-Dichloroethene	0.3050	0.3110	0.0100	-2.000	100.00
trans-1,2-Dichloroethene	0.3140	0.3187	0.0100	-1.500	100.00
1,2-Dichloropropane	0.3480	0.3389	0.0100	2.600	20.00
cis-1,3-Dichloropropene	0.4310	0.4370	0.0100	-1.400	100.00
trans-1,3-Dichloropropene	0.3710	0.3623	0.0100	2.400	100.00
Ethylbenzene	1.7140	1.7609	0.0100	-2.700	20.00
2-Hexanone	0.0760	0.0840	0.0100	-10.500	100.00
Isopropylbenzene	3.1890	2.9673	0.0100	7.000	100.00
Methylene chloride	0.2880	0.2639	0.0100	8.400	100.00
4-Methyl-2-pentanone	0.1260	0.1404	0.0100	-11.400	100.00
Styrene	0.9310	0.9180	0.0100	1.400	100.00
1,1,2,2-Tetrachloroethane	0.4980	0.4777	0.3000	4.100	100.00
Tetrachloroethene	0.6710	0.6395	0.0100	4.700	100.00
Toluene	0.8440	0.8038	0.0100	4.800	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005981-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100203

Lab File Id: L2310.RR Calibration Date: 10/04/2003 Time: 12:03

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9400	0.8501	0.0100	9.600	100.00
1,1,1-Trichloroethane	0.7030	0.7947	0.0100	-13.000	100.00
1,1,2-Trichloroethane	0.2270	0.2225	0.0100	2.000	100.00
Trichloroethene	0.4400	0.4454	0.0100	-1.200	100.00
Trichlorofluoromethane	0.7750	0.9848	0.0100	-27.100	100.00
Vinyl chloride	0.2400	0.2300	0.0100	4.200	20.00
Total Xylenes	0.6190	0.6016	0.0100	2.800	100.00
Methyl tert butyl ether	0.3690	0.4070	0.0100	-10.300	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.5600	0.6594	0.0100	-17.800	100.00
Vinyl acetate	0.2370	0.2818	0.0100	-18.900	100.00
1,2-Dichloroethane-D4	0.2660	0.3618	0.0100	-36.000	100.00
Toluene-D8	1.1920	1.2341	0.0100	-3.500	100.00
p-Bromofluorobenzene	0.5070	0.5343	0.0100	-5.400	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005969-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100203

Lab File Id: L2330.RR Calibration Date: 10/05/2003 Time: 12:58

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0160	0.0180	0.0100	-12.500	100.00
Benzene	0.8870	0.9497	0.0100	-7.100	100.00
Bromodichloromethane	0.5600	0.6179	0.0100	-10.300	100.00
Bromoform	0.2320	0.2376	0.1000	-2.400	100.00
Bromomethane	0.2110	0.2608	0.0100	-23.600	100.00
2-Butanone	0.0220	0.0231	0.0100	-5.000	100.00
Methyl acetate	0.0890	0.0743	0.0100	16.500	100.00
Cyclohexane	0.4320	0.4286	0.0100	0.800	100.00
Methylcyclohexane	0.4560	0.4276	0.0100	6.200	100.00
Carbon Disulfide	0.6870	0.6982	0.0100	-1.600	100.00
Carbon Tetrachloride	0.6420	0.8054	0.0100	-25.400	100.00
Chlorobenzene	1.0320	1.0674	0.3000	-3.400	100.00
Chloroethane	0.1620	0.1955	0.0100	-20.700	100.00
Chloroform	0.7610	0.9107	0.0100	-19.700	20.00
Chloromethane	0.2170	0.2449	0.1000	-12.800	100.00
Dibromochloromethane	0.4410	0.4559	0.0100	-3.400	100.00
1,2-Dibromo-3-chloropropane	0.0890	0.0805	0.0100	9.600	100.00
1,2-Dibromoethane	0.3110	0.3097	0.0100	0.400	100.00
1,2-Dichlorobenzene	1.3400	1.3191	0.0100	1.600	100.00
1,3-Dichlorobenzene	1.6270	1.6201	0.0100	0.400	100.00
1,4-Dichlorobenzene	1.6530	1.6502	0.0100	0.200	100.00
Dichlorodifluoromethane	0.3790	0.4493	0.0100	-18.500	100.00
1,1-Dichloroethane	0.6200	0.7347	0.1000	-18.500	100.00
1,2-Dichloroethane	0.3120	0.4101	0.0100	-31.400	100.00
1,1-Dichloroethene	0.2740	0.3051	0.0100	-11.400	100.00
cis-1,2-Dichloroethene	0.3050	0.3486	0.0100	-14.300	100.00
trans-1,2-Dichloroethene	0.3140	0.3514	0.0100	-11.900	100.00
1,2-Dichloropropane	0.3480	0.3492	0.0100	-0.300	20.00
cis-1,3-Dichloropropene	0.4310	0.4470	0.0100	-3.700	100.00
trans-1,3-Dichloropropene	0.3710	0.3799	0.0100	-2.400	100.00
Ethylbenzene	1.7140	1.8947	0.0100	-10.500	20.00
2-Hexanone	0.0760	0.0727	0.0100	4.300	100.00
Isopropylbenzene	3.1890	3.2657	0.0100	-2.400	100.00
Methylene chloride	0.2880	0.2837	0.0100	1.500	100.00
4-Methyl-2-pentanone	0.1260	0.1227	0.0100	2.600	100.00
Styrene	0.9310	0.9688	0.0100	-4.100	100.00
1,1,2,2-Tetrachloroethane	0.4980	0.5023	0.3000	-0.900	100.00
Tetrachloroethene	0.6710	0.7041	0.0100	-4.900	100.00
Toluene	0.8440	0.8810	0.0100	-4.400	20.00

FORM VII VOA

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005969-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100203

Lab File Id: L2330.RR Calibration Date: 10/05/2003 Time: 12:58

Intrument ID: I50L _____ Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9400	0.8908	0.0100	5.200	100.00
1,1,1-Trichloroethane	0.7030	0.8570	0.0100	-21.900	100.00
1,1,2-Trichloroethane	0.2270	0.2358	0.0100	-3.900	100.00
Trichloroethene	0.4400	0.4826	0.0100	-9.700	100.00
Trichlorofluoromethane	0.7750	1.0567	0.0100	-36.300	100.00
Vinyl chloride	0.2400	0.2615	0.0100	-9.000	20.00
Total Xylenes	0.6190	0.6436	0.0100	-4.000	100.00
Methyl tert butyl ether	0.3690	0.3690	0.0100	0.000	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.5600	0.6185	0.0100	-10.400	100.00
Vinyl acetate	0.2370	0.2515	0.0100	-6.100	100.00
1,2-Dichloroethane-D4	0.2660	0.3576	0.0100	-34.400	100.00
Toluene-D8	1.1920	1.2482	0.0100	-4.700	100.00
p-Bromofluorobenzene	0.5070	0.5242	0.0100	-3.400	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005992-1

Lab Code: RECNY Case No.: R____ SAS No.: _____ SDG No: 093003

Lab File Id: M4845.RR Calibration Date: 10/06/2003 Time: 09:14

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0308	0.0100	9.400	100.00
Benzene	1.5020	1.3414	0.0100	10.700	100.00
Bromodichloromethane	0.3850	0.3150	0.0100	18.200	100.00
Bromoform	0.2020	0.1687	0.1000	16.500	100.00
Bromomethane	0.2410	0.2386	0.0100	1.000	100.00
2-Butanone	0.0510	0.0480	0.0100	5.900	100.00
Methyl acetate	0.1310	0.1144	0.0100	12.700	100.00
Cyclohexane	0.6190	0.6562	0.0100	-6.000	100.00
Methylcyclohexane	0.4990	0.5321	0.0100	-6.600	100.00
Carbon Disulfide	1.0520	1.1309	0.0100	-7.500	100.00
Carbon Tetrachloride	0.4070	0.3585	0.0100	11.900	100.00
Chlorobenzene	1.0350	0.9124	0.3000	11.800	100.00
Chloroethane	0.2960	0.3204	0.0100	-8.200	100.00
Chloroform	0.6710	0.5726	0.0100	14.700	20.00
Chloromethane	0.4840	0.5060	0.1000	-4.500	100.00
Dibromochloromethane	0.2060	0.1684	0.0100	18.200	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0335	0.0100	16.200	100.00
1,2-Dibromoethane	0.1530	0.1333	0.0100	12.900	100.00
1,2-Dichlorobenzene	1.1380	0.9468	0.0100	16.800	100.00
1,3-Dichlorobenzene	1.5210	1.3495	0.0100	11.300	100.00
1,4-Dichlorobenzene	1.5500	1.3172	0.0100	15.000	100.00
Dichlorodifluoromethane	0.2630	0.3048	0.0100	-15.900	100.00
1,1-Dichloroethane	0.7660	0.7057	0.1000	7.900	100.00
1,2-Dichloroethane	0.3460	0.2700	0.0100	22.000	100.00
1,1-Dichloroethene	0.2810	0.2817	0.0100	-0.300	100.00
cis-1,2-Dichloroethene	0.3740	0.3518	0.0100	5.900	100.00
trans-1,2-Dichloroethene	0.3940	0.3722	0.0100	5.500	100.00
1,2-Dichloropropane	0.3640	0.3092	0.0100	15.000	20.00
cis-1,3-Dichloropropene	0.3990	0.3336	0.0100	16.400	100.00
trans-1,3-Dichloropropene	0.3650	0.2960	0.0100	18.900	100.00
Ethylbenzene	1.9030	1.7330	0.0100	8.900	20.00
2-Hexanone	0.0900	0.0790	0.0100	12.200	100.00
Isopropylbenzene	3.8880	3.4983	0.0100	10.000	100.00
Methylene chloride	0.3740	0.3301	0.0100	11.700	100.00
4-Methyl-2-pentanone	0.1430	0.1223	0.0100	14.500	100.00
Styrene	0.9840	0.8934	0.0100	9.200	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3390	0.3000	14.600	100.00
Tetrachloroethene	0.4190	0.3961	0.0100	5.500	100.00
Toluene	1.1200	1.0243	0.0100	8.500	20.00

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METHOD 8260 - AQUEOUS (30% RSD/ 20% D)
CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005992-1

Lab Code: RECNY Case No.: R____ SAS No.: _____ SDG No: 093003

Lab File Id: M4845.RR Calibration Date: 10/06/2003 Time: 09:14

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4643	0.0100	28.600	100.00
1,1,1-Trichloroethane	0.4970	0.4244	0.0100	14.600	100.00
1,1,2-Trichloroethane	0.1680	0.1472	0.0100	12.400	100.00
Trichloroethene	0.3510	0.3082	0.0100	12.200	100.00
Trichlorofluoromethane	0.4150	0.4293	0.0100	-3.400	100.00
Vinyl chloride	0.4060	0.4369	0.0100	-7.600	20.00
Total Xylenes	0.6350	0.5808	0.0100	8.500	100.00
Methyl tert butyl ether	0.3910	0.3370	0.0100	13.800	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3066	0.0100	-14.800	100.00
Vinyl acetate	0.3300	0.3016	0.0100	8.600	100.00
1,2-Dichloroethane-D4	0.2610	0.2500	0.0100	4.200	100.00
Toluene-D8	1.3520	1.5187	0.0100	-12.300	100.00
p-Bromofluorobenzene	0.3280	0.3186	0.0100	2.900	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005993-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100303

Lab File Id: M4871.RR Calibration Date: 10/07/2003 Time: 09:20

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0304	0.0100	10.600	100.00
Benzene	1.5020	1.3391	0.0100	10.800	100.00
Bromodichloromethane	0.3850	0.3200	0.0100	16.900	100.00
Bromoform	0.2020	0.1616	0.1000	20.000	100.00
Bromomethane	0.2410	0.2044	0.0100	15.200	100.00
2-Butanone	0.0510	0.0490	0.0100	3.900	100.00
Methyl acetate	0.1310	0.1164	0.0100	11.100	100.00
Cyclohexane	0.6190	0.6187	0.0100	0.000	100.00
Methylcyclohexane	0.4990	0.4890	0.0100	2.000	100.00
Carbon Disulfide	1.0520	1.0699	0.0100	-1.700	100.00
Carbon Tetrachloride	0.4070	0.3552	0.0100	12.700	100.00
Chlorobenzene	1.0350	0.9695	0.3000	6.300	100.00
Chloroethane	0.2960	0.3074	0.0100	-3.800	100.00
Chloroform	0.6710	0.5732	0.0100	14.600	20.00
Chloromethane	0.4840	0.4841	0.1000	0.000	100.00
Dibromochloromethane	0.2060	0.1838	0.0100	10.800	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0309	0.0100	22.800	100.00
1,2-Dibromoethane	0.1530	0.1411	0.0100	7.800	100.00
1,2-Dichlorobenzene	1.1380	0.9187	0.0100	19.300	100.00
1,3-Dichlorobenzene	1.5210	1.2497	0.0100	17.800	100.00
1,4-Dichlorobenzene	1.5500	1.1969	0.0100	22.800	100.00
Dichlorodifluoromethane	0.2630	0.2586	0.0100	1.700	100.00
1,1-Dichloroethane	0.7660	0.6881	0.1000	10.200	100.00
1,2-Dichloroethane	0.3460	0.2811	0.0100	18.800	100.00
1,1-Dichloroethene	0.2810	0.2767	0.0100	1.500	100.00
cis-1,2-Dichloroethene	0.3740	0.3420	0.0100	8.600	100.00
trans-1,2-Dichloroethene	0.3940	0.3724	0.0100	5.500	100.00
1,2-Dichloropropane	0.3640	0.3061	0.0100	15.900	20.00
cis-1,3-Dichloropropene	0.3990	0.3336	0.0100	16.400	100.00
trans-1,3-Dichloropropene	0.3650	0.3078	0.0100	15.700	100.00
Ethylbenzene	1.9030	1.8054	0.0100	5.100	20.00
2-Hexanone	0.0900	0.0798	0.0100	11.300	100.00
Isopropylbenzene	3.8880	3.2256	0.0100	17.000	100.00
Methylene chloride	0.3740	0.3359	0.0100	10.200	100.00
4-Methyl-2-pentanone	0.1430	0.1262	0.0100	11.700	100.00
Styrene	0.9840	0.9012	0.0100	8.400	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3325	0.3000	16.200	100.00
Tetrachloroethene	0.4190	0.3822	0.0100	8.800	100.00
Toluene	1.1200	1.0759	0.0100	3.900	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005993-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100303

Lab File Id: M4871.RR Calibration Date: 10/07/2003 Time: 09:20

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4398	0.0100	32.300	100.00
1,1,1-Trichloroethane	0.4970	0.4257	0.0100	14.300	100.00
1,1,2-Trichloroethane	0.1680	0.1546	0.0100	8.000	100.00
Trichloroethene	0.3510	0.3054	0.0100	13.000	100.00
Trichlorofluoromethane	0.4150	0.4230	0.0100	-1.900	100.00
Vinyl chloride	0.4060	0.4076	0.0100	-0.400	20.00
Total Xylenes	0.6350	0.6084	0.0100	4.200	100.00
Methyl tert butyl ether	0.3910	0.3227	0.0100	17.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.2935	0.0100	-9.900	100.00
Vinyl acetate	0.3300	0.2923	0.0100	11.400	100.00
1,2-Dichloroethane-D4	0.2610	0.2427	0.0100	7.000	100.00
Toluene-D8	1.3520	1.5060	0.0100	-11.400	100.00
p-Bromofluorobenzene	0.3280	0.3406	0.0100	-3.800	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005994-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100303

Lab File Id: M4896.RR Calibration Date: 10/07/2003 Time: 21:03

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0328	0.0100	3.500	100.00
Benzene	1.5020	1.4289	0.0100	4.900	100.00
Bromodichloromethane	0.3850	0.3187	0.0100	17.200	100.00
Bromoform	0.2020	0.1639	0.1000	18.900	100.00
Bromomethane	0.2410	0.2119	0.0100	12.100	100.00
2-Butanone	0.0510	0.0531	0.0100	-4.100	100.00
Methyl acetate	0.1310	0.1150	0.0100	12.200	100.00
Cyclohexane	0.6190	0.6897	0.0100	-11.400	100.00
Methylcyclohexane	0.4990	0.5648	0.0100	-13.200	100.00
Carbon Disulfide	1.0520	1.0073	0.0100	4.200	100.00
Carbon Tetrachloride	0.4070	0.3670	0.0100	9.800	100.00
Chlorobenzene	1.0350	0.9529	0.3000	7.900	100.00
Chloroethane	0.2960	0.3269	0.0100	-10.400	100.00
Chloroform	0.6710	0.5997	0.0100	10.600	20.00
Chloromethane	0.4840	0.4924	0.1000	-1.700	100.00
Dibromochloromethane	0.2060	0.1747	0.0100	15.200	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0317	0.0100	20.800	100.00
1,2-Dibromoethane	0.1530	0.1356	0.0100	11.400	100.00
1,2-Dichlorobenzene	1.1380	0.9635	0.0100	15.300	100.00
1,3-Dichlorobenzene	1.5210	1.3254	0.0100	12.800	100.00
1,4-Dichlorobenzene	1.5500	1.2936	0.0100	16.500	100.00
Dichlorodifluoromethane	0.2630	0.2837	0.0100	-7.900	100.00
1,1-Dichloroethane	0.7660	0.6603	0.1000	13.800	100.00
1,2-Dichloroethane	0.3460	0.2982	0.0100	13.800	100.00
1,1-Dichloroethene	0.2810	0.2940	0.0100	-4.600	100.00
cis-1,2-Dichloroethene	0.3740	0.3537	0.0100	5.400	100.00
trans-1,2-Dichloroethene	0.3940	0.3677	0.0100	6.700	100.00
1,2-Dichloropropane	0.3640	0.3263	0.0100	10.400	20.00
cis-1,3-Dichloropropene	0.3990	0.3335	0.0100	16.400	100.00
trans-1,3-Dichloropropene	0.3650	0.2926	0.0100	19.800	100.00
Ethylbenzene	1.9030	1.8154	0.0100	4.600	20.00
2-Hexanone	0.0900	0.0868	0.0100	3.600	100.00
Isopropylbenzene	3.8880	3.5663	0.0100	8.300	100.00
Methylene chloride	0.3740	0.3503	0.0100	6.300	100.00
4-Methyl-2-pentanone	0.1430	0.1305	0.0100	8.700	100.00
Styrene	0.9840	0.9130	0.0100	7.200	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3462	0.3000	12.800	100.00
Tetrachloroethene	0.4190	0.3956	0.0100	5.600	100.00
Toluene	1.1200	1.0429	0.0100	6.900	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005994-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100303

Lab File Id: M4896.RR Calibration Date: 10/07/2003 Time: 21:03

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4670	0.0100	28.200	100.00
1,1,1-Trichloroethane	0.4970	0.4510	0.0100	9.200	100.00
1,1,2-Trichloroethane	0.1680	0.1550	0.0100	7.700	100.00
Trichloroethene	0.3510	0.3274	0.0100	6.700	100.00
Trichlorofluoromethane	0.4150	0.4527	0.0100	-9.100	100.00
Vinyl chloride	0.4060	0.4397	0.0100	-8.300	20.00
Total Xylenes	0.6350	0.6093	0.0100	4.000	100.00
Methyl tert butyl ether	0.3910	0.3508	0.0100	10.300	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3272	0.0100	-22.500	100.00
Vinyl acetate	0.3300	0.2999	0.0100	9.100	100.00
1,2-Dichloroethane-D4	0.2610	0.2505	0.0100	4.000	100.00
Toluene-D8	1.3520	1.5865	0.0100	-17.300	100.00
p-Bromofluorobenzene	0.3280	0.3270	0.0100	0.300	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006005-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100603

Lab File Id: M4925.RR Calibration Date: 10/08/2003 Time: 08:58

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0294	0.0100	13.500	100.00
Benzene	1.5020	1.3295	0.0100	11.500	100.00
Bromodichloromethane	0.3850	0.2969	0.0100	22.900	100.00
Bromoform	0.2020	0.1459	0.1000	27.800	100.00
Bromomethane	0.2410	0.1517	0.0100	37.000	100.00
2-Butanone	0.0510	0.0498	0.0100	2.400	100.00
Methyl acetate	0.1310	0.1147	0.0100	12.400	100.00
Cyclohexane	0.6190	0.5930	0.0100	4.200	100.00
Methylcyclohexane	0.4990	0.5015	0.0100	-0.500	100.00
Carbon Disulfide	1.0520	0.8618	0.0100	18.100	100.00
Carbon Tetrachloride	0.4070	0.3370	0.0100	17.200	100.00
Chlorobenzene	1.0350	0.9482	0.3000	8.400	100.00
Chloroethane	0.2960	0.3349	0.0100	-13.100	100.00
Chloroform	0.6710	0.5661	0.0100	15.600	20.00
Chloromethane	0.4840	0.5051	0.1000	-4.400	100.00
Dibromochloromethane	0.2060	0.1688	0.0100	18.000	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0298	0.0100	25.500	100.00
1,2-Dibromoethane	0.1530	0.1354	0.0100	11.500	100.00
1,2-Dichlorobenzene	1.1380	0.9891	0.0100	13.100	100.00
1,3-Dichlorobenzene	1.5210	1.3144	0.0100	13.600	100.00
1,4-Dichlorobenzene	1.5500	1.3235	0.0100	14.600	100.00
Dichlorodifluoromethane	0.2630	0.2895	0.0100	-10.100	100.00
1,1-Dichloroethane	0.7660	0.6491	0.1000	15.300	100.00
1,2-Dichloroethane	0.3460	0.2765	0.0100	20.100	100.00
1,1-Dichloroethene	0.2810	0.2756	0.0100	1.900	100.00
cis-1,2-Dichloroethene	0.3740	0.3289	0.0100	12.000	100.00
trans-1,2-Dichloroethene	0.3940	0.3590	0.0100	8.900	100.00
1,2-Dichloropropane	0.3640	0.3073	0.0100	15.600	20.00
cis-1,3-Dichloropropene	0.3990	0.3096	0.0100	22.400	100.00
trans-1,3-Dichloropropene	0.3650	0.2836	0.0100	22.300	100.00
Ethylbenzene	1.9030	1.7944	0.0100	5.700	20.00
2-Hexanone	0.0900	0.0849	0.0100	5.700	100.00
Isopropylbenzene	3.8880	3.5597	0.0100	8.400	100.00
Methylene chloride	0.3740	0.3352	0.0100	10.400	100.00
4-Methyl-2-pentanone	0.1430	0.1314	0.0100	8.100	100.00
Styrene	0.9840	0.9153	0.0100	7.000	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3590	0.3000	9.600	100.00
Tetrachloroethene	0.4190	0.3737	0.0100	10.800	100.00
Toluene	1.1200	1.0699	0.0100	4.500	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006005-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100603

Lab File Id: M4925.RR Calibration Date: 10/08/2003 Time: 08:58

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4705	0.0100	27.600	100.00
1,1,1-Trichloroethane	0.4970	0.4103	0.0100	17.400	100.00
1,1,2-Trichloroethane	0.1680	0.1551	0.0100	7.700	100.00
Trichloroethene	0.3510	0.2956	0.0100	15.800	100.00
Trichlorofluoromethane	0.4150	0.4402	0.0100	-6.100	100.00
Vinyl chloride	0.4060	0.4484	0.0100	-10.400	20.00
Total Xylenes	0.6350	0.5822	0.0100	8.300	100.00
Methyl tert butyl ether	0.3910	0.3383	0.0100	13.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.2819	0.0100	-5.600	100.00
Vinyl acetate	0.3300	0.2999	0.0100	9.100	100.00
1,2-Dichloroethane-D4	0.2610	0.2511	0.0100	3.800	100.00
Toluene-D8	1.3520	1.5863	0.0100	-17.300	100.00
p-Bromofluorobenzene	0.3280	0.3361	0.0100	-2.500	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006006-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100703

Lab File Id: M4949.RR Calibration Date: 10/08/2003 Time: 20:54

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0322	0.0100	5.300	100.00
Benzene	1.5020	1.4076	0.0100	6.300	100.00
Bromodichloromethane	0.3850	0.3255	0.0100	15.400	100.00
Bromoform	0.2020	0.1644	0.1000	18.600	100.00
Bromomethane	0.2410	0.2151	0.0100	10.700	100.00
2-Butanone	0.0510	0.0514	0.0100	-0.800	100.00
Methyl acetate	0.1310	0.1121	0.0100	14.400	100.00
Cyclohexane	0.6190	0.5751	0.0100	7.100	100.00
Methylcyclohexane	0.4990	0.4917	0.0100	1.500	100.00
Carbon Disulfide	1.0520	0.8273	0.0100	21.400	100.00
Carbon Tetrachloride	0.4070	0.3689	0.0100	9.400	100.00
Chlorobenzene	1.0350	0.9823	0.3000	5.100	100.00
Chloroethane	0.2960	0.3393	0.0100	-14.600	100.00
Chloroform	0.6710	0.5927	0.0100	11.700	20.00
Chloromethane	0.4840	0.5320	0.1000	-9.900	100.00
Dibromochloromethane	0.2060	0.1748	0.0100	15.100	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0315	0.0100	21.200	100.00
1,2-Dibromoethane	0.1530	0.1384	0.0100	9.500	100.00
1,2-Dichlorobenzene	1.1380	0.9936	0.0100	12.700	100.00
1,3-Dichlorobenzene	1.5210	1.3530	0.0100	11.000	100.00
1,4-Dichlorobenzene	1.5500	1.3551	0.0100	12.600	100.00
Dichlorodifluoromethane	0.2630	0.2962	0.0100	-12.600	100.00
1,1-Dichloroethane	0.7660	0.6728	0.1000	12.200	100.00
1,2-Dichloroethane	0.3460	0.2961	0.0100	14.400	100.00
1,1-Dichloroethene	0.2810	0.2849	0.0100	-1.400	100.00
cis-1,2-Dichloroethene	0.3740	0.3498	0.0100	6.500	100.00
trans-1,2-Dichloroethene	0.3940	0.3684	0.0100	6.500	100.00
1,2-Dichloropropane	0.3640	0.3262	0.0100	10.400	20.00
cis-1,3-Dichloropropene	0.3990	0.3431	0.0100	14.000	100.00
trans-1,3-Dichloropropene	0.3650	0.3000	0.0100	17.800	100.00
Ethylbenzene	1.9030	1.7493	0.0100	8.100	20.00
2-Hexanone	0.0900	0.0834	0.0100	7.300	100.00
Isopropylbenzene	3.8880	3.6012	0.0100	7.400	100.00
Methylene chloride	0.3740	0.3583	0.0100	4.200	100.00
4-Methyl-2-pentanone	0.1430	0.1343	0.0100	6.100	100.00
Styrene	0.9840	0.9488	0.0100	3.600	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3803	0.3000	4.200	100.00
Tetrachloroethene	0.4190	0.3872	0.0100	7.600	100.00
Toluene	1.1200	1.0614	0.0100	5.200	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006006-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100703

Lab File Id: M4949.RR Calibration Date: 10/08/2003 Time: 20:54

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4805	0.0100	26.100	100.00
1,1,1-Trichloroethane	0.4970	0.4379	0.0100	11.900	100.00
1,1,2-Trichloroethane	0.1680	0.1571	0.0100	6.500	100.00
Trichloroethene	0.3510	0.3289	0.0100	6.300	100.00
Trichlorofluoromethane	0.4150	0.4522	0.0100	-9.000	100.00
Vinyl chloride	0.4060	0.4497	0.0100	-10.800	20.00
Total Xylenes	0.6350	0.6072	0.0100	4.400	100.00
Methyl tert butyl ether	0.3910	0.3541	0.0100	9.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.2785	0.0100	-4.300	100.00
Vinyl acetate	0.3300	0.2970	0.0100	10.000	100.00
1,2-Dichloroethane-D4	0.2610	0.2592	0.0100	0.700	100.00
Toluene-D8	1.3520	1.5124	0.0100	-11.900	100.00
p-Bromofluorobenzene	0.3280	0.3289	0.0100	-0.300	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006024-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100603

Lab File Id: M4975.RR Calibration Date: 10/09/2003 Time: 10:31

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0329	0.0100	3.200	100.00
Benzene	1.5020	1.3171	0.0100	12.300	100.00
Bromodichloromethane	0.3850	0.3125	0.0100	18.800	100.00
Bromoform	0.2020	0.1522	0.1000	24.600	100.00
Bromomethane	0.2410	0.1936	0.0100	19.700	100.00
2-Butanone	0.0510	0.0526	0.0100	-3.100	100.00
Methyl acetate	0.1310	0.1320	0.0100	-0.800	100.00
Cyclohexane	0.6190	0.7111	0.0100	-14.900	100.00
Methylcyclohexane	0.4990	0.5828	0.0100	-16.800	100.00
Carbon Disulfide	1.0520	1.1181	0.0100	-6.300	100.00
Carbon Tetrachloride	0.4070	0.3581	0.0100	12.000	100.00
Chlorobenzene	1.0350	0.9673	0.3000	6.500	100.00
Chloroethane	0.2960	0.2535	0.0100	14.400	100.00
Chloroform	0.6710	0.5633	0.0100	16.000	20.00
Chloromethane	0.4840	0.3792	0.1000	21.600	100.00
Dibromochloromethane	0.2060	0.1710	0.0100	17.000	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0280	0.0100	30.000	100.00
1,2-Dibromoethane	0.1530	0.1366	0.0100	10.700	100.00
1,2-Dichlorobenzene	1.1380	0.9392	0.0100	17.500	100.00
1,3-Dichlorobenzene	1.5210	1.2614	0.0100	17.100	100.00
1,4-Dichlorobenzene	1.5500	1.2354	0.0100	20.300	100.00
Dichlorodifluoromethane	0.2630	0.2191	0.0100	16.700	100.00
1,1-Dichloroethane	0.7660	0.6902	0.1000	9.900	100.00
1,2-Dichloroethane	0.3460	0.2851	0.0100	17.600	100.00
1,1-Dichloroethene	0.2810	0.2808	0.0100	0.100	100.00
cis-1,2-Dichloroethene	0.3740	0.3324	0.0100	11.100	100.00
trans-1,2-Dichloroethene	0.3940	0.3628	0.0100	7.900	100.00
1,2-Dichloropropane	0.3640	0.3138	0.0100	13.800	20.00
cis-1,3-Dichloropropene	0.3990	0.3306	0.0100	17.100	100.00
trans-1,3-Dichloropropene	0.3650	0.2929	0.0100	19.800	100.00
Ethylbenzene	1.9030	1.7928	0.0100	5.800	20.00
2-Hexanone	0.0900	0.0902	0.0100	-0.200	100.00
Isopropylbenzene	3.8880	3.4952	0.0100	10.100	100.00
Methylene chloride	0.3740	0.3298	0.0100	11.800	100.00
4-Methyl-2-pentanone	0.1430	0.1369	0.0100	4.300	100.00
Styrene	0.9840	0.9043	0.0100	8.100	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3291	0.3000	17.100	100.00
Tetrachloroethene	0.4190	0.3834	0.0100	8.500	100.00
Toluene	1.1200	1.0372	0.0100	7.400	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006024-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100603

Lab File Id: M4975.RR Calibration Date: 10/09/2003 Time: 10:31

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4778	0.0100	26.500	100.00
1,1,1-Trichloroethane	0.4970	0.4272	0.0100	14.000	100.00
1,1,2-Trichloroethane	0.1680	0.1536	0.0100	8.600	100.00
Trichloroethene	0.3510	0.3162	0.0100	9.900	100.00
Trichlorofluoromethane	0.4150	0.3730	0.0100	10.100	100.00
Vinyl chloride	0.4060	0.3492	0.0100	14.000	20.00
Total Xylenes	0.6350	0.6194	0.0100	2.400	100.00
Methyl tert butyl ether	0.3910	0.3638	0.0100	7.000	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3330	0.0100	-24.700	100.00
Vinyl acetate	0.3300	0.3623	0.0100	-9.800	100.00
1,2-Dichloroethane-D4	0.2610	0.2527	0.0100	3.200	100.00
Toluene-D8	1.3520	1.5661	0.0100	-15.800	100.00
p-Bromofluorobenzene	0.3280	0.3310	0.0100	-0.900	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006063-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100703

Lab File Id: L2502.RR Calibration Date: 10/10/2003 Time: 09:28

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0160	0.0159	0.0100	0.600	100.00
Benzene	0.8870	0.9199	0.0100	-3.700	100.00
Bromodichloromethane	0.5600	0.5579	0.0100	0.400	100.00
Bromoform	0.2320	0.2128	0.1000	8.300	100.00
Bromomethane	0.2110	0.1950	0.0100	7.600	100.00
2-Butanone	0.0220	0.0217	0.0100	1.400	100.00
Methyl acetate	0.0890	0.0658	0.0100	26.100	100.00
Cyclohexane	0.4320	0.4100	0.0100	5.100	100.00
Methylcyclohexane	0.4560	0.4403	0.0100	3.400	100.00
Carbon Disulfide	0.6870	0.7119	0.0100	-3.600	100.00
Carbon Tetrachloride	0.6420	0.6669	0.0100	-3.900	100.00
Chlorobenzene	1.0320	0.9729	0.3000	5.700	100.00
Chloroethane	0.1620	0.1697	0.0100	-4.800	100.00
Chloroform	0.7610	0.7616	0.0100	-0.100	20.00
Chloromethane	0.2170	0.2069	0.1000	4.600	100.00
Dibromochloromethane	0.4410	0.4135	0.0100	6.200	100.00
1,2-Dibromo-3-chloropropane	0.0890	0.0819	0.0100	8.000	100.00
1,2-Dibromoethane	0.3110	0.2800	0.0100	10.000	100.00
1,2-Dichlorobenzene	1.3400	1.2471	0.0100	6.900	100.00
1,3-Dichlorobenzene	1.6270	1.5113	0.0100	7.100	100.00
1,4-Dichlorobenzene	1.6530	1.5431	0.0100	6.600	100.00
Dichlorodifluoromethane	0.3790	0.3643	0.0100	3.900	100.00
1,1-Dichloroethane	0.6200	0.6171	0.1000	0.500	100.00
1,2-Dichloroethane	0.3120	0.3140	0.0100	-0.600	100.00
1,1-Dichloroethene	0.2740	0.2604	0.0100	5.000	100.00
cis-1,2-Dichloroethene	0.3050	0.3002	0.0100	1.600	100.00
trans-1,2-Dichloroethene	0.3140	0.3012	0.0100	4.100	100.00
1,2-Dichloropropane	0.3480	0.3132	0.0100	10.000	20.00
cis-1,3-Dichloropropene	0.4310	0.4003	0.0100	7.100	100.00
trans-1,3-Dichloropropene	0.3710	0.3463	0.0100	6.700	100.00
Ethylbenzene	1.7140	1.7053	0.0100	0.500	20.00
2-Hexanone	0.0760	0.0690	0.0100	9.200	100.00
Isopropylbenzene	3.1890	3.1206	0.0100	2.100	100.00
Methylene chloride	0.2880	0.2525	0.0100	12.300	100.00
4-Methyl-2-pentanone	0.1260	0.1164	0.0100	7.600	100.00
Styrene	0.9310	0.8887	0.0100	4.500	100.00
1,1,2,2-Tetrachloroethane	0.4980	0.4718	0.3000	5.300	100.00
Tetrachloroethene	0.6710	0.6386	0.0100	4.800	100.00
Toluene	0.8440	0.8077	0.0100	4.300	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006033-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Lab File Id: M5027.RR Calibration Date: 10/10/2003 Time: 10:47

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0357	0.0100	-5.000	100.00
Benzene	1.5020	1.5834	0.0100	-5.400	100.00
Bromodichloromethane	0.3850	0.3463	0.0100	10.000	100.00
Bromoform	0.2020	0.1699	0.1000	15.900	100.00
Bromomethane	0.2410	0.1630	0.0100	32.400	100.00
2-Butanone	0.0510	0.0549	0.0100	-7.600	100.00
Methyl acetate	0.1310	0.1234	0.0100	5.800	100.00
Cyclohexane	0.6190	0.7493	0.0100	-21.000	100.00
Methylcyclohexane	0.4990	0.6224	0.0100	-24.700	100.00
Carbon Disulfide	1.0520	1.1971	0.0100	-13.800	100.00
Carbon Tetrachloride	0.4070	0.4144	0.0100	-1.800	100.00
Chlorobenzene	1.0350	1.0791	0.3000	-4.300	100.00
Chloroethane	0.2960	0.3030	0.0100	-2.400	100.00
Chloroform	0.6710	0.6577	0.0100	2.000	20.00
Chloromethane	0.4840	0.4240	0.1000	12.400	100.00
Dibromochloromethane	0.2060	0.1948	0.0100	5.400	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0357	0.0100	10.800	100.00
1,2-Dibromoethane	0.1530	0.1548	0.0100	-1.200	100.00
1,2-Dichlorobenzene	1.1380	1.0692	0.0100	6.000	100.00
1,3-Dichlorobenzene	1.5210	1.4445	0.0100	5.000	100.00
1,4-Dichlorobenzene	1.5500	1.4603	0.0100	5.800	100.00
Dichlorodifluoromethane	0.2630	0.2695	0.0100	-2.500	100.00
1,1-Dichloroethane	0.7660	0.7668	0.1000	-0.100	100.00
1,2-Dichloroethane	0.3460	0.3294	0.0100	4.800	100.00
1,1-Dichloroethene	0.2810	0.3361	0.0100	-19.600	100.00
cis-1,2-Dichloroethene	0.3740	0.4010	0.0100	-7.200	100.00
trans-1,2-Dichloroethene	0.3940	0.4367	0.0100	-10.800	100.00
1,2-Dichloropropane	0.3640	0.3493	0.0100	4.000	20.00
cis-1,3-Dichloropropene	0.3890	0.3730	0.0100	6.500	100.00
trans-1,3-Dichloropropene	0.3650	0.3258	0.0100	10.700	100.00
Ethylbenzene	1.9030	2.0533	0.0100	-7.900	20.00
2-Hexanone	0.0900	0.0935	0.0100	-3.900	100.00
Isopropylbenzene	3.8880	3.8902	0.0100	-0.100	100.00
Methylene chloride	0.3740	0.4124	0.0100	-10.300	100.00
4-Methyl-2-pentanone	0.1430	0.1450	0.0100	-1.400	100.00
Styrene	0.9840	1.0555	0.0100	-7.300	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3949	0.3000	0.500	100.00
Tetrachloroethene	0.4190	0.4498	0.0100	-7.400	100.00
Toluene	1.1200	1.2073	0.0100	-7.800	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006033-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Lab File Id: M5027.RR Calibration Date: 10/10/2003 Time: 10:47

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.5527	0.0100	15.000	100.00
1,1,1-Trichloroethane	0.4970	0.5114	0.0100	-2.900	100.00
1,1,2-Trichloroethane	0.1680	0.1716	0.0100	-2.100	100.00
Trichloroethene	0.3510	0.3552	0.0100	-1.200	100.00
Trichlorofluoromethane	0.4150	0.4347	0.0100	-4.700	100.00
Vinyl chloride	0.4060	0.4147	0.0100	-2.100	20.00
Total Xylenes	0.6350	0.6918	0.0100	-8.900	100.00
Methyl tert butyl ether	0.3910	0.3908	0.0100	0.100	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3632	0.0100	-36.000	100.00
Vinyl acetate	0.3300	0.3817	0.0100	-15.700	100.00
==========					
1,2-Dichloroethane-D4	0.2610	0.2775	0.0100	-6.300	100.00
Toluene-D8	1.3520	1.5285	0.0100	-13.000	100.00
p-Bromofluorobenzene	0.3280	0.3408	0.0100	-3.900	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006070-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100903

Lab File Id: L2550.RR Calibration Date: 10/11/2003 Time: 10:05

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0160	0.0178	0.0100	-11.200	100.00
Benzene	0.8870	0.8339	0.0100	6.000	100.00
Bromodichloromethane	0.5600	0.6107	0.0100	-9.000	100.00
Bromoform	0.2320	0.2319	0.1000	0.000	100.00
Bromomethane	0.2110	0.1843	0.0100	12.600	100.00
2-Butanone	0.0220	0.0257	0.0100	-16.800	100.00
Methyl acetate	0.0890	0.0734	0.0100	17.500	100.00
Cyclohexane	0.4320	0.4031	0.0100	6.700	100.00
Methylcyclohexane	0.4560	0.4213	0.0100	7.600	100.00
Carbon Disulfide	0.6870	0.6637	0.0100	3.400	100.00
Carbon Tetrachloride	0.6420	0.7088	0.0100	-10.400	100.00
Chlorobenzene	1.0320	1.0032	0.3000	2.800	100.00
Chloroethane	0.1620	0.2151	0.0100	-32.800	100.00
Chloroform	0.7610	0.8094	0.0100	-6.400	20.00
Chloromethane	0.2170	0.2110	0.1000	2.800	100.00
Dibromochloromethane	0.4410	0.4419	0.0100	-0.200	100.00
1,2-Dibromo-3-chloropropane	0.0890	0.0927	0.0100	-4.200	100.00
1,2-Dibromoethane	0.3110	0.3055	0.0100	1.800	100.00
1,2-Dichlorobenzene	1.3400	1.3116	0.0100	2.100	100.00
1,3-Dichlorobenzene	1.6270	1.6106	0.0100	1.000	100.00
1,4-Dichlorobenzene	1.6530	1.5816	0.0100	4.300	100.00
Dichlorodifluoromethane	0.3790	0.4249	0.0100	-12.100	100.00
1,1-Dichloroethane	0.6200	0.6448	0.1000	-4.000	100.00
1,2-Dichloroethane	0.3120	0.3842	0.0100	-23.100	100.00
1,1-Dichloroethene	0.2740	0.2685	0.0100	2.000	100.00
cis-1,2-Dichloroethene	0.3050	0.3111	0.0100	-2.000	100.00
trans-1,2-Dichloroethene	0.3140	0.3119	0.0100	0.700	100.00
1,2-Dichloropropane	0.3480	0.3273	0.0100	5.900	20.00
cis-1,3-Dichloropropene	0.4310	0.4263	0.0100	1.100	100.00
trans-1,3-Dichloropropene	0.3710	0.3770	0.0100	-1.600	100.00
Ethylbenzene	1.7140	1.7590	0.0100	-2.600	20.00
2-Hexanone	0.0760	0.0789	0.0100	-3.800	100.00
Isopropylbenzene	3.1890	3.1309	0.0100	1.800	100.00
Methylene chloride	0.2880	0.2672	0.0100	7.200	100.00
4-Methyl-2-pentanone	0.1260	0.1301	0.0100	-3.200	100.00
Styrene	0.9310	0.9336	0.0100	-0.300	100.00
1,1,2,2-Tetrachloroethane	0.4980	0.5086	0.3000	-2.100	100.00
Tetrachloroethene	0.6710	0.6476	0.0100	3.500	100.00
Toluene	0.8440	0.8131	0.0100	3.700	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006119-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100803

Lab File Id: M5073.RR Calibration Date: 10/11/2003 Time: 10:42

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4942	0.0100	24.000	100.00
1,1,1-Trichloroethane	0.4970	0.4489	0.0100	9.700	100.00
1,1,2-Trichloroethane	0.1680	0.1531	0.0100	8.900	100.00
Trichloroethene	0.3510	0.3216	0.0100	8.400	100.00
Trichlorofluoromethane	0.4150	0.4291	0.0100	-3.400	100.00
Vinyl chloride	0.4060	0.4631	0.0100	-14.100	20.00
Total Xylenes	0.6350	0.5970	0.0100	6.000	100.00
Methyl tert butyl ether	0.3910	0.3736	0.0100	4.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3405	0.0100	-27.500	100.00
Vinyl acetate	0.3300	0.3570	0.0100	-8.200	100.00
1,2-Dichloroethane-D4	0.2610	0.2860	0.0100	-9.600	100.00
Toluene-D8	1.3520	1.4556	0.0100	-7.700	100.00
p-Bromofluorobenzene	0.3280	0.3350	0.0100	-2.100	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006096-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101003

Lab File Id: M5118.RR Calibration Date: 10/13/2003 Time: 21:09

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0340	0.0313	0.0100	7.900	100.00
Benzene	1.5020	1.4539	0.0100	3.200	100.00
Bromodichloromethane	0.3850	0.3301	0.0100	14.200	100.00
Bromoform	0.2020	0.1720	0.1000	14.800	100.00
Bromomethane	0.2410	0.1707	0.0100	29.200	100.00
2-Butanone	0.0510	0.0476	0.0100	6.700	100.00
Methyl acetate	0.1310	0.1187	0.0100	9.400	100.00
Cyclohexane	0.6190	0.5614	0.0100	9.300	100.00
Methylcyclohexane	0.4990	0.4552	0.0100	8.800	100.00
Carbon Disulfide	1.0520	0.7649	0.0100	27.300	100.00
Carbon Tetrachloride	0.4070	0.3805	0.0100	6.500	100.00
Chlorobenzene	1.0350	0.9256	0.3000	10.600	100.00
Chloroethane	0.2960	0.3326	0.0100	-12.400	100.00
Chloroform	0.6710	0.6288	0.0100	6.300	20.00
Chloromethane	0.4840	0.5115	0.1000	-5.700	100.00
Dibromochloromethane	0.2060	0.1731	0.0100	16.000	100.00
1,2-Dibromo-3-chloropropane	0.0400	0.0363	0.0100	9.200	100.00
1,2-Dibromoethane	0.1530	0.1323	0.0100	13.500	100.00
1,2-Dichlorobenzene	1.1380	0.9772	0.0100	14.100	100.00
1,3-Dichlorobenzene	1.5210	1.4203	0.0100	6.600	100.00
1,4-Dichlorobenzene	1.5500	1.3776	0.0100	11.100	100.00
Dichlorodifluoromethane	0.2630	0.2935	0.0100	-11.600	100.00
1,1-Dichloroethane	0.7660	0.7063	0.1000	7.800	100.00
1,2-Dichloroethane	0.3460	0.3182	0.0100	8.000	100.00
1,1-Dichloroethene	0.2810	0.3166	0.0100	-12.700	100.00
cis-1,2-Dichloroethene	0.3740	0.3709	0.0100	0.800	100.00
trans-1,2-Dichloroethene	0.3940	0.3946	0.0100	-0.200	100.00
1,2-Dichloropropane	0.3640	0.3360	0.0100	7.700	20.00
cis-1,3-Dichloropropene	0.3990	0.3230	0.0100	19.000	100.00
trans-1,3-Dichloropropene	0.3650	0.2812	0.0100	23.000	100.00
Ethylbenzene	1.9030	1.7037	0.0100	10.500	20.00
2-Hexanone	0.0900	0.0731	0.0100	18.800	100.00
Isopropylbenzene	3.8880	3.6500	0.0100	6.100	100.00
Methylene chloride	0.3740	0.3760	0.0100	-0.500	100.00
4-Methyl-2-pentanone	0.1430	0.1194	0.0100	16.500	100.00
Styrene	0.9840	0.8886	0.0100	9.700	100.00
1,1,2,2-Tetrachloroethane	0.3970	0.3700	0.3000	6.800	100.00
Tetrachloroethene	0.4190	0.3709	0.0100	11.500	100.00
Toluene	1.1200	1.0255	0.0100	8.400	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006092-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101303

Lab File Id: M5165.RR Calibration Date: 10/14/2003 Time: 21:21

Intrument ID: I50M Init. Calib. Date(s): 09/28/2003 09/28/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:17 15:12

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.6500	0.4886	0.0100	24.800	100.00
1,1,1-Trichloroethane	0.4970	0.4610	0.0100	7.200	100.00
1,1,2-Trichloroethane	0.1680	0.1517	0.0100	9.700	100.00
Trichloroethene	0.3510	0.3406	0.0100	3.000	100.00
Trichlorofluoromethane	0.4150	0.4415	0.0100	-6.400	100.00
Vinyl chloride	0.4060	0.4207	0.0100	-3.600	20.00
Total Xylenes	0.6350	0.6230	0.0100	1.900	100.00
Methyl tert butyl ether	0.3910	0.3746	0.0100	4.200	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3462	0.0100	-29.700	100.00
Vinyl acetate	0.3300	0.3636	0.0100	-10.200	100.00
==========					
1,2-Dichloroethane-D4	0.2610	0.2663	0.0100	-2.000	100.00
Toluene-D8	1.3520	1.5498	0.0100	-14.600	100.00
p-Bromofluorobenzene	0.3280	0.3220	0.0100	1.800	100.00

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VOLATILE ORGANIC INSTRUMENT TUNE
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0002626

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 101503

Lab File ID: M5221 BFB Injection Date: 10/17/2003

Instrument ID: I50M BFB Injection Time: 15:44

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	21.6
75	30.0 - 60.0% of mass 95	44.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50 - 120 % of mass 95	69.6
175	5.0 - 9.0% of mass 174	4.5 (6.4) 1
176	95.0 - 101.0% of mass 174	68.3 (98.1) 1
177	5.0 - 9.0% of mass 176	3.6 (5.3) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006184-1	M5222.RR	10/17/2003	16:09
2	MSB69	A3993505	M5223.RR	10/17/2003	16:56
3	VBLK69	A3993504	M5224.RR	10/17/2003	17:26
4	GW03-007B-P5	A3993501	M5235.RR	10/17/2003	22:51
5	GW03-015A-P3	A3993502	M5236.RR	10/17/2003	23:21
6	TRIP BLANK	A3993503	M5237.RR	10/17/2003	23:50
7	TB1-10/15/03	A3997904	M5238.RR	10/18/2003	00:20
8	GW03-013B-P6	A3997902	M5239.RR	10/18/2003	00:49

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006184-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101503

Lab File Id: M5222.RR Calibration Date: 10/17/2003 Time: 16:09

Intrument ID: I50M Init. Calib. Date(s): 10/17/2003 10/17/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:43 15:13

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0640	0.0472	0.0100	26.200	100.00
Benzene	1.6650	1.6120	0.0100	3.200	100.00
Bromodichloromethane	0.4650	0.4392	0.0100	5.500	100.00
Bromoform	0.2410	0.2128	0.1000	11.700	100.00
Bromomethane	0.3140	0.3168	0.0100	-0.900	100.00
2-Butanone	0.0910	0.0899	0.0100	1.200	100.00
Methyl acetate	0.2270	0.2075	0.0100	8.600	100.00
Cyclohexane	0.7480	0.7367	0.0100	1.500	100.00
Methylcyclohexane	0.5780	0.5738	0.0100	0.700	100.00
Carbon Disulfide	1.3860	1.3745	0.0100	0.800	100.00
Carbon Tetrachloride	0.4930	0.4371	0.0100	11.300	100.00
Chlorobenzene	1.1580	1.0001	0.3000	13.600	100.00
Chloroethane	0.3780	0.4143	0.0100	-9.600	100.00
Chloroform	0.8410	0.7437	0.0100	11.600	20.00
Chloromethane	0.6440	0.7390	0.1000	-14.800	100.00
Dibromochloromethane	0.2810	0.2410	0.0100	14.200	100.00
1,2-Dibromo-3-chloropropane	0.0590	0.0517	0.0100	12.400	100.00
1,2-Dibromoethane	0.2160	0.1825	0.0100	15.500	100.00
1,2-Dichlorobenzene	1.3100	1.2522	0.0100	4.400	100.00
1,3-Dichlorobenzene	1.5800	1.6063	0.0100	-1.700	100.00
1,4-Dichlorobenzene	1.6830	1.6554	0.0100	1.600	100.00
Dichlorodifluoromethane	0.3100	0.3362	0.0100	-8.400	100.00
1,1-Dichloroethane	0.9190	0.8331	0.1000	9.300	100.00
1,2-Dichloroethane	0.4670	0.4085	0.0100	12.500	100.00
1,1-Dichloroethene	0.3780	0.3768	0.0100	0.300	100.00
cis-1,2-Dichloroethene	0.4670	0.4447	0.0100	4.800	100.00
trans-1,2-Dichloroethene	0.4880	0.4609	0.0100	5.600	100.00
1,2-Dichloropropane	0.4310	0.4060	0.0100	5.800	20.00
cis-1,3-Dichloropropene	0.4890	0.4715	0.0100	3.600	100.00
trans-1,3-Dichloropropene	0.4890	0.4085	0.0100	16.500	100.00
Ethylbenzene	2.1620	1.8825	0.0100	12.900	20.00
2-Hexanone	0.1630	0.1352	0.0100	17.000	100.00
Isopropylbenzene	3.7360	3.5522	0.0100	4.900	100.00
Methylene chloride	0.5360	0.4820	0.0100	10.100	100.00
4-Methyl-2-pentanone	0.2440	0.2093	0.0100	14.200	100.00
Styrene	1.1930	1.0983	0.0100	7.900	100.00
1,1,2,2-Tetrachloroethane	0.5070	0.4957	0.3000	2.200	100.00
Tetrachloroethene	0.4580	0.3770	0.0100	17.700	100.00
Toluene	1.2310	1.0706	0.0100	13.000	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006184-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101503

Lab File Id: M5222.RR Calibration Date: 10/17/2003 Time: 16:09

Intrument ID: I50M Init. Calib. Date(s): 10/17/2003 10/17/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:43 15:13

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.7640	0.7445	0.0100	2.600	100.00
1,1,1-Trichloroethane	0.5850	0.5047	0.0100	13.700	100.00
1,1,2-Trichloroethane	0.2330	0.1978	0.0100	15.100	100.00
Trichloroethene	0.3900	0.3622	0.0100	7.100	100.00
Trichlorofluoromethane	0.5740	0.5707	0.0100	0.600	100.00
Vinyl chloride	0.5030	0.5499	0.0100	-9.300	20.00
Total Xylenes	0.7300	0.6658	0.0100	8.800	100.00
Methyl tert butyl ether	0.6550	0.5853	0.0100	10.600	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3640	0.3761	0.0100	-3.300	100.00
Vinyl acetate	0.5730	0.5377	0.0100	6.200	100.00
1,2-Dichloroethane-D4	0.3540	0.3198	0.0100	9.700	100.00
Toluene-D8	1.5700	1.3642	0.0100	13.100	100.00
p-Bromofluorobenzene	0.3630	0.3517	0.0100	3.100	100.00

FORM VII VOA

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006167-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101403

Lab File Id: L2765.RR Calibration Date: 10/18/2003 Time: 19:02

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0160	0.0182	0.0100	-13.800	100.00
Benzene	0.8870	0.8669	0.0100	2.300	100.00
Bromodichloromethane	0.5600	0.6586	0.0100	-17.600	100.00
Bromoform	0.2320	0.2678	0.1000	-15.400	100.00
Bromomethane	0.2110	0.2028	0.0100	3.900	100.00
2-Butanone	0.0220	0.0247	0.0100	-12.300	100.00
Methyl acetate	0.0890	0.0735	0.0100	17.400	100.00
Cyclohexane	0.4320	0.2858	0.0100	33.800	100.00
Methylcyclohexane	0.4560	0.3586	0.0100	21.400	100.00
Carbon Disulfide	0.6870	0.3021	0.0100	56.000	100.00
Carbon Tetrachloride	0.6420	0.8006	0.0100	-24.700	100.00
Chlorobenzene	1.0320	1.1140	0.3000	-7.900	100.00
Chloroethane	0.1620	0.2365	0.0100	46.000	100.00
Chloroform	0.7610	0.8561	0.0100	-12.500	20.00
Chloromethane	0.2170	0.2262	0.1000	-4.200	100.00
Dibromochloromethane	0.4410	0.5104	0.0100	-15.700	100.00
1,2-Dibromo-3-chloropropane	0.0890	0.1081	0.0100	-21.500	100.00
1,2-Dibromoethane	0.3110	0.3355	0.0100	-7.900	100.00
1,2-Dichlorobenzene	1.3400	1.4647	0.0100	-9.300	100.00
1,3-Dichlorobenzene	1.6270	1.7649	0.0100	-8.500	100.00
1,4-Dichlorobenzene	1.6530	1.7714	0.0100	-7.200	100.00
Dichlorodifluoromethane	0.3790	0.4666	0.0100	-23.100	100.00
1,1-Dichloroethane	0.6200	0.6911	0.1000	-11.500	100.00
1,2-Dichloroethane	0.3120	0.3914	0.0100	-25.400	100.00
1,1-Dichloroethene	0.2740	0.2835	0.0100	-3.500	100.00
cis-1,2-Dichloroethene	0.3050	0.3293	0.0100	-8.000	100.00
trans-1,2-Dichloroethene	0.3140	0.3269	0.0100	-4.100	100.00
1,2-Dichloropropane	0.3480	0.3448	0.0100	0.900	20.00
cis-1,3-Dichloropropene	0.4310	0.4592	0.0100	-6.500	100.00
trans-1,3-Dichloropropene	0.3710	0.4290	0.0100	-15.600	100.00
Ethylbenzene	1.7140	1.9277	0.0100	-12.500	20.00
2-Hexanone	0.0760	0.0829	0.0100	-9.100	100.00
Isopropylbenzene	3.1890	3.6409	0.0100	-14.200	100.00
Methylene chloride	0.2880	0.2555	0.0100	11.300	100.00
4-Methyl-2-pentanone	0.1260	0.1373	0.0100	-9.000	100.00
Styrene	0.9310	1.0190	0.0100	-9.400	100.00
1,1,2,2-Tetrachloroethane	0.4980	0.5352	0.3000	-7.500	100.00
Tetrachloroethene	0.6710	0.7165	0.0100	-6.800	100.00
Toluene	0.8440	0.9087	0.0100	-7.700	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006167-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101403

Lab File Id: L2765.RR Calibration Date: 10/18/2003 Time: 19:02

Intrument ID: I50L Init. Calib. Date(s): 09/05/2003 09/05/2003

Heated Purge (Y/N): N Init. Calib. Times: 08:37 11:22

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9400	1.0375	0.0100	-10.400	100.00
1,1,1-Trichloroethane	0.7030	0.8428	0.0100	-19.900	100.00
1,1,2-Trichloroethane	0.2270	0.2413	0.0100	-6.300	100.00
Trichloroethene	0.4400	0.4930	0.0100	-12.000	100.00
Trichlorofluoromethane	0.7750	0.9936	0.0100	-28.200	100.00
Vinyl chloride	0.2400	0.2413	0.0100	-0.500	20.00
Total Xylenes	0.6190	0.6637	0.0100	-7.200	100.00
Methyl tert butyl ether	0.3690	0.3607	0.0100	2.200	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.5600	0.3208	0.0100	42.700	100.00
Vinyl acetate	0.2370	0.2822	0.0100	-19.100	100.00
1,2-Dichloroethane-D4	0.2660	0.3231	0.0100	-21.500	100.00
Toluene-D8	1.1920	1.2761	0.0100	-7.000	100.00
p-Bromofluorobenzene	0.5070	0.5388	0.0100	-6.300	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0002629

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 101503

Lab File ID: M5243 BFB Injection Date: 10/18/2003

Instrument ID: I50M BFB Injection Time: 19:07

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.0		
75	30.0 - 60.0% of mass 95	44.5		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.6		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	69.7		
175	5.0 - 9.0% of mass 174	5.2	(7.4)	1
176	95.0 - 101.0% of mass 174	67.8	(97.3)	1
177	5.0 - 9.0% of mass 176	3.9	(5.7)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006187-1	M5244.RR	10/18/2003	19:26
2	MSB70	A3997910	M5245.RR	10/18/2003	20:11
3	VBLK70	A3997909	M5247.RR	10/18/2003	21:10
4	GW03-012A-P3	A3997901	M5250.RR	10/18/2003	22:38

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006187-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101503

Lab File Id: M5244.RR Calibration Date: 10/18/2003 Time: 19:26

Intrument ID: I50M Init. Calib. Date(s): 10/17/2003 10/17/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:43 15:13

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0640	0.0481	0.0100	24.800	100.00
Benzene	1.6650	1.5426	0.0100	7.400	100.00
Bromodichloromethane	0.4650	0.4328	0.0100	6.900	100.00
Bromoform	0.2410	0.2158	0.1000	10.400	100.00
Bromomethane	0.3140	0.2672	0.0100	14.900	100.00
2-Butanone	0.0910	0.0826	0.0100	9.200	100.00
Methyl acetate	0.2270	0.1894	0.0100	16.600	100.00
Cyclohexane	0.7480	0.4394	0.0100	41.200	100.00
Methylcyclohexane	0.5780	0.4097	0.0100	29.100	100.00
Carbon Disulfide	1.3860	0.5344	0.0100	61.400	100.00
Carbon Tetrachloride	0.4930	0.4239	0.0100	14.000	100.00
Chlorobenzene	1.1580	1.0523	0.3000	9.100	100.00
Chloroethane	0.3780	0.4350	0.0100	-15.100	100.00
Chloroform	0.8410	0.7388	0.0100	12.200	20.00
Chloromethane	0.6440	0.7768	0.1000	-20.600	100.00
Dibromochloromethane	0.2810	0.2413	0.0100	14.100	100.00
1,2-Dibromo-3-chloropropane	0.0590	0.0535	0.0100	9.300	100.00
1,2-Dibromoethane	0.2160	0.1830	0.0100	15.300	100.00
1,2-Dichlorobenzene	1.3100	1.1527	0.0100	12.000	100.00
1,3-Dichlorobenzene	1.5800	1.4387	0.0100	8.900	100.00
1,4-Dichlorobenzene	1.6830	1.4692	0.0100	12.700	100.00
Dichlorodifluoromethane	0.3100	0.3344	0.0100	-7.900	100.00
1,1-Dichloroethane	0.9190	0.8159	0.1000	11.200	100.00
1,2-Dichloroethane	0.4670	0.4050	0.0100	13.300	100.00
1,1-Dichloroethene	0.3780	0.3665	0.0100	3.000	100.00
cis-1,2-Dichloroethene	0.4670	0.4326	0.0100	7.400	100.00
trans-1,2-Dichloroethene	0.4880	0.4555	0.0100	6.600	100.00
1,2-Dichloropropane	0.4310	0.4025	0.0100	6.600	20.00
cis-1,3-Dichloropropene	0.4890	0.4700	0.0100	3.900	100.00
trans-1,3-Dichloropropene	0.4890	0.4103	0.0100	16.100	100.00
Ethylbenzene	2.1620	1.8336	0.0100	15.200	20.00
2-Hexanone	0.1630	0.1346	0.0100	17.400	100.00
Isopropylbenzene	3.7360	3.4380	0.0100	8.000	100.00
Methylene chloride	0.5360	0.4746	0.0100	11.400	100.00
4-Methyl-2-pentanone	0.2440	0.1945	0.0100	20.300	100.00
Styrene	1.1930	1.0846	0.0100	9.100	100.00
1,1,2,2-Tetrachloroethane	0.5070	0.4641	0.3000	8.500	100.00
Tetrachloroethene	0.4580	0.4057	0.0100	11.400	100.00
Toluene	1.2310	1.0469	0.0100	15.000	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006187-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101503

Lab File Id: M5244.RR Calibration Date: 10/18/2003 Time: 19:26

Intrument ID: I50M Init. Calib. Date(s): 10/17/2003 10/17/2003

Heated Purge (Y/N): N Init. Calib. Times: 11:43 15:13

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.7640	0.6815	0.0100	10.800	100.00
1,1,1-Trichloroethane	0.5850	0.5071	0.0100	13.300	100.00
1,1,2-Trichloroethane	0.2330	0.2104	0.0100	9.700	100.00
Trichloroethene	0.3900	0.3489	0.0100	10.500	100.00
Trichlorofluoromethane	0.5740	0.5611	0.0100	2.200	100.00
Vinyl chloride	0.5030	0.5717	0.0100	-13.600	20.00
Total Xylenes	0.7300	0.6646	0.0100	9.000	100.00
Methyl tert butyl ether	0.6550	0.5274	0.0100	19.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3640	0.1842	0.0100	49.400	100.00
Vinyl acetate	0.5730	0.4688	0.0100	18.200	100.00
==========					
1,2-Dichloroethane-D4	0.3540	0.3095	0.0100	12.600	100.00
Toluene-D8	1.5700	1.4604	0.0100	7.000	100.00
p-Bromofluorobenzene	0.3630	0.3621	0.0100	0.300	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005873-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092503

Lab File Id: W53160.RR Calibration Date: 10/01/2003 Time: 08:55

Intrument ID: I50W-A Init. Calib. Date(s): 09/30/2003 09/30/2003

Init. Calib. Times: 08:07 10:58

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	2.1810	2.1537	0.0500	1.200	20.00
Bis(2-chloroethyl) ether	1.8670	1.8556	0.0500	0.600	25.00
2-Chlorophenol	1.5030	1.5140	0.0500	-0.700	25.00
Benzyl alcohol	1.0220	1.0429	0.0500	-2.000	25.00
2-Methylphenol	1.3590	1.3742	0.0500	-1.100	25.00
2,2'-Oxybis(1-Chloropropane)	3.0410	2.8671	0.0500	5.700	25.00
4-Methylphenol	1.4610	1.5030	0.0500	-2.900	25.00
N-Nitroso-Di-n-propylamine	1.2990	1.2681	0.0500	2.400	25.00
Hexachloroethane	0.6720	0.6980	0.0500	-3.900	25.00
Nitrobenzene	0.4510	0.4575	0.0500	-1.400	25.00
Isophorone	0.9040	0.8865	0.0500	1.900	25.00
2-Nitrophenol	0.1870	0.1943	0.0500	-3.900	20.00
2,4-Dimethylphenol	0.3400	0.3383	0.0500	0.500	25.00
Benzoic acid	0.1020	0.0780	0.0500	23.500	40.00
Bis(2-chloroethoxy) methane	0.5370	0.5374	0.0500	-0.100	25.00
2,4-Dichlorophenol	0.2610	0.2722	0.0500	-4.300	20.00
Naphthalene	0.9570	0.9951	0.0500	-4.000	25.00
4-Chloroaniline	0.4290	0.4430	0.0500	-3.300	25.00
Hexachlorobutadiene	0.1300	0.1332	0.0500	-2.500	20.00
4-Chloro-3-methylphenol	0.3210	0.3197	0.0500	0.400	20.00
2-Methylnaphthalene	0.6000	0.6237	0.0500	-4.000	25.00
Hexachlorocyclopentadiene	0.1830	0.1903	0.0500	-4.000	25.00
2,4,6-Trichlorophenol	0.3000	0.3080	0.0500	-2.700	25.00
2,4,5-Trichlorophenol	0.3190	0.3224	0.0500	-1.100	25.00
2-Chloronaphthalene	1.0000	1.0588	0.0500	-5.900	25.00
2-Nitroaniline	0.4420	0.4336	0.0500	1.900	25.00
Dimethyl phthalate	1.1770	1.2001	0.0500	-2.000	25.00
Acenaphthylene	1.6190	1.7227	0.0500	-6.400	25.00
2,6-Dinitrotoluene	0.2730	0.2779	0.0500	-1.800	25.00
3-Nitroaniline	0.3630	0.3695	0.0500	-1.800	25.00
Acenaphthene	0.9360	0.9865	0.0500	-5.400	20.00
2,4-Dinitrophenol	0.0850	0.0592	0.0500	30.400	40.00
4-Nitrophenol	0.1370	0.1260	0.0500	8.000	40.00
Dibenzofuran	1.3640	1.4214	0.0500	-4.200	25.00
2,4-Dinitrotoluene	0.3620	0.3675	0.0500	-1.500	25.00
Diethyl phthalate	1.2780	1.2899	0.0500	-0.900	25.00
4-Chlorophenyl phenyl ether	0.5730	0.5570	0.0500	2.800	25.00
Fluorene	1.0870	1.1736	0.0500	-8.000	25.00
4-Nitroaniline	0.3390	0.3379	0.0500	0.300	25.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005874-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092503

Lab File Id: W53178.RR Calibration Date: 10/01/2003 Time: 21:22

Intrument ID: I50W-A Init. Calib. Date(s): 09/30/2003 09/30/2003

Init. Calib. Times: 08:07 10:58

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	2.1810	2.3580	0.0500	-8.100	20.00
Bis(2-chloroethyl) ether	1.8670	1.9480	0.0500	-4.300	25.00
2-Chlorophenol	1.5030	1.5404	0.0500	-2.500	25.00
Benzyl alcohol	1.0220	1.0726	0.0500	-5.000	25.00
2-Methylphenol	1.3590	1.4106	0.0500	-3.800	25.00
2,2'-Oxybis(1-Chloropropane)	3.0410	3.1230	0.0500	-2.700	25.00
4-Methylphenol	1.4610	1.5479	0.0500	-6.000	25.00
N-Nitroso-Di-n-propylamine	1.2990	1.2942	0.0500	0.400	25.00
Hexachloroethane	0.6720	0.7092	0.0500	-5.500	25.00
Nitrobenzene	0.4510	0.4701	0.0500	-4.200	25.00
Isophorone	0.9040	0.9448	0.0500	-4.500	25.00
2-Nitrophenol	0.1870	0.2014	0.0500	-7.700	20.00
2,4-Dimethylphenol	0.3400	0.3567	0.0500	-4.900	25.00
Benzoic acid	0.1020	0.1147	0.0500	-12.400	40.00
Bis(2-chloroethoxy) methane	0.5370	0.5690	0.0500	-6.000	25.00
2,4-Dichlorophenol	0.2610	0.2659	0.0500	-1.900	20.00
Naphthalene	0.9570	1.0106	0.0500	-5.600	25.00
4-Chloroaniline	0.4290	0.4522	0.0500	-5.400	25.00
Hexachlorobutadiene	0.1300	0.1263	0.0500	2.800	20.00
4-Chloro-3-methylphenol	0.3210	0.3446	0.0500	-7.400	20.00
2-Methylnaphthalene	0.6000	0.6381	0.0500	-6.400	25.00
Hexachlorocyclopentadiene	0.1830	0.1774	0.0500	3.100	25.00
2,4,6-Trichlorophenol	0.3000	0.2967	0.0500	1.100	25.00
2,4,5-Trichlorophenol	0.3190	0.3157	0.0500	1.000	25.00
2-Chloronaphthalene	1.0000	1.0455	0.0500	-4.600	25.00
2-Nitroaniline	0.4420	0.4626	0.0500	-4.700	25.00
Dimethyl phthalate	1.1770	1.2011	0.0500	-2.000	25.00
Acenaphthylene	1.6190	1.6575	0.0500	-2.400	25.00
2,6-Dinitrotoluene	0.2730	0.2819	0.0500	-3.300	25.00
3-Nitroaniline	0.3630	0.3908	0.0500	-7.700	25.00
Acenaphthene	0.9360	0.9288	0.0500	0.800	20.00
2,4-Dinitrophenol	0.0850	0.0489	0.0500	42.500	40.00
4-Nitrophenol	0.1370	0.1290	0.0500	5.800	40.00
Dibenzofuran	1.3640	1.3853	0.0500	-1.600	25.00
2,4-Dinitrotoluene	0.3620	0.3756	0.0500	-3.800	25.00
Diethyl phthalate	1.2780	1.3108	0.0500	-2.600	25.00
4-Chlorophenyl phenyl ether	0.5730	0.5503	0.0500	4.000	25.00
Fluorene	1.0870	1.1219	0.0500	-3.200	25.00
4-Nitroaniline	0.3390	0.3663	0.0500	-8.000	25.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005874-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 092503

Lab File Id: W53178.RR Calibration Date: 10/01/2003 Time: 21:22

Intrument ID: I50W-A Init. Calib. Date(s): 09/30/2003 09/30/2003

Init. Calib. Times: 08:07 10:58

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
4,6-Dinitro-2-methylphenol	0.1170	0.0857	0.0500	26.800	40.00
N-nitrosodiphenylamine	0.5470	0.5891	0.0500	-7.700	20.00
4-Bromophenyl phenyl ether	0.1940	0.1907	0.0500	1.700	25.00
Hexachlorobenzene	0.2090	0.2047	0.0500	2.100	25.00
Pentachlorophenol	0.1080	0.0955	0.0500	11.600	20.00
Phenanthrene	0.9850	1.0400	0.0500	-5.600	25.00
Anthracene	1.0150	1.0706	0.0500	-5.500	25.00
Di-n-butyl phthalate	1.4150	1.5424	0.0500	-9.000	25.00
Fluoranthene	1.0270	1.0658	0.0500	-3.800	20.00
Pyrene	0.9720	1.0635	0.0500	-9.400	25.00
Butyl benzyl phthalate	0.6320	0.7279	0.0500	-15.200	25.00
3,3'-Dichlorobenzidine	0.3130	0.3461	0.0500	-10.600	25.00
Benzo(a)anthracene	0.8930	0.9663	0.0500	-8.200	25.00
Chrysene	0.9970	1.0479	0.0500	-5.100	25.00
Bis(2-ethylhexyl) phthalate	0.8330	0.9579	0.0500	-15.000	25.00
Di-n-octyl phthalate	1.3580	1.6137	0.0500	-18.800	20.00
Benzo(b)fluoranthene	1.1280	1.1843	0.0500	-5.000	25.00
Benzo(k)fluoranthene	0.9860	1.0935	0.0500	-10.900	40.00
Benzo(a)pyrene	0.9880	1.0481	0.0500	-6.100	20.00
Indeno(1,2,3-cd)pyrene	1.0950	1.0718	0.0500	2.100	25.00
Dibenzo(a,h)anthracene	0.9630	0.9704	0.0500	-0.800	25.00
Benzo(ghi)perylene	0.9020	0.8406	0.0500	6.800	25.00
Nitrobenzene-D5	0.4140	0.4364	0.0500	-5.400	25.00
2-Fluorobiphenyl	1.0050	1.0109	0.0500	-0.600	25.00
p-Terphenyl-d14	0.6180	0.6661	0.0500	-7.800	25.00
Phenol-D5	1.9490	2.0056	0.0500	-2.900	25.00
2-Fluorophenol	1.4390	1.5180	0.0500	-5.500	25.00
2,4,6-Tribromophenol	0.0910	0.0896	0.0500	1.500	25.00

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CONTINUING CALIBRATION CHECK

ıab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005883-1

ıab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 093003

ıab File Id: W53191.RR Calibration Date: 10/02/2003 Time: 08:21

ntrument ID: I50W-A Init. Calib. Date(s): 09/30/2003 09/30/2003

Init. Calib. Times: 08:07 10:58

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	2.1810	2.1926	0.0500	-0.500	20.00
Bis(2-chloroethyl) ether	1.8670	1.8663	0.0500	0.000	25.00
2-Chlorophenol	1.5030	1.4864	0.0500	1.100	25.00
Benzyl alcohol	1.0220	1.0236	0.0500	-0.200	25.00
2-Methylphenol	1.3590	1.3660	0.0500	-0.500	25.00
2,2'-Oxybis(1-Chloropropane)	3.0410	2.9694	0.0500	2.400	25.00
4-Methylphenol	1.4610	1.5270	0.0500	-4.500	25.00
N-Nitroso-Di-n-propylamine	1.2990	1.2936	0.0500	0.400	25.00
Hexachloroethane	0.6720	0.7070	0.0500	-5.200	25.00
Nitrobenzene	0.4510	0.4650	0.0500	-3.100	25.00
Isophorone	0.9040	0.8869	0.0500	1.900	25.00
2-Nitrophenol	0.1870	0.1860	0.0500	0.500	20.00
2,4-Dimethylphenol	0.3400	0.3334	0.0500	1.900	25.00
Benzoic acid	0.1020	0.0710	0.0500	30.400	40.00
Bis(2-chloroethoxy) methane	0.5370	0.5445	0.0500	-1.400	25.00
2,4-Dichlorophenol	0.2610	0.2680	0.0500	-2.700	20.00
Naphthalene	0.9570	1.0054	0.0500	-5.000	25.00
4-Chloroaniline	0.4290	0.4314	0.0500	-0.600	25.00
Hexachlorobutadiene	0.1300	0.1392	0.0500	-7.100	20.00
4-Chloro-3-methylphenol	0.3210	0.3160	0.0500	1.600	20.00
2-Methylnaphthalene	0.6000	0.6303	0.0500	-5.000	25.00
Hexachlorocyclopentadiene	0.1830	0.1944	0.0500	-6.200	25.00
2,4,6-Trichlorophenol	0.3000	0.3015	0.0500	-0.500	25.00
2,4,5-Trichlorophenol	0.3190	0.3175	0.0500	0.500	25.00
2-Chloronaphthalene	1.0000	1.0649	0.0500	-6.500	25.00
2-Nitroaniline	0.4420	0.4311	0.0500	2.500	25.00
Dimethyl phthalate	1.1770	1.1808	0.0500	-0.300	25.00
Acenaphthylene	1.6190	1.6792	0.0500	-3.700	25.00
2,6-Dinitrotoluene	0.2730	0.2658	0.0500	2.600	25.00
3-Nitroaniline	0.3630	0.3525	0.0500	2.900	25.00
Acenaphthene	0.9360	0.9745	0.0500	-4.100	20.00
2,4-Dinitrophenol	0.0850	0.0551	0.0500	35.200	40.00
4-Nitrophenol	0.1370	0.1246	0.0500	9.000	40.00
Dibenzofuran	1.3640	1.4039	0.0500	-2.900	25.00
2,4-Dinitrotoluene	0.3620	0.3538	0.0500	2.300	25.00
Diethyl phthalate	1.2780	1.2527	0.0500	2.000	25.00
4-Chlorophenyl phenyl ether	0.5730	0.5604	0.0500	2.200	25.00
Fluorene	1.0870	1.1718	0.0500	-7.800	25.00
4-Nitroaniline	0.3390	0.3147	0.0500	7.200	25.00

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005912-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 093003

ab File Id: W53215.RR Calibration Date: 10/03/2003 Time: 10:27

ntrument ID: I50W-A Init. Calib. Date(s): 09/30/2003 09/30/2003

Init. Calib. Times: 08:07 10:58

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	2.1810	2.1949	0.0500	-0.600	20.00
Bis(2-chloroethyl) ether	1.8670	1.8484	0.0500	1.000	25.00
2-Chlorophenol	1.5030	1.5249	0.0500	-1.400	25.00
Benzyl alcohol	1.0220	1.0288	0.0500	-0.700	25.00
2-Methylphenol	1.3590	1.3849	0.0500	-1.900	25.00
2,2'-Oxybis(1-Chloropropane)	3.0410	2.8855	0.0500	5.100	25.00
4-Methylphenol	1.4610	1.5136	0.0500	-3.600	25.00
N-Nitroso-Di-n-propylamine	1.2990	1.2554	0.0500	3.400	25.00
Hexachloroethane	0.6720	0.6891	0.0500	-2.500	25.00
Nitrobenzene	0.4510	0.4528	0.0500	-0.400	25.00
Isophorone	0.9040	0.8883	0.0500	1.700	25.00
2-Nitrophenol	0.1870	0.1943	0.0500	-3.900	20.00
2,4-Dimethylphenol	0.3400	0.3380	0.0500	0.600	25.00
Benzoic acid	0.1020	0.0766	0.0500	24.900	40.00
Bis(2-chloroethoxy) methane	0.5370	0.5352	0.0500	0.300	25.00
2,4-Dichlorophenol	0.2610	0.2726	0.0500	-4.400	20.00
Naphthalene	0.9570	1.0036	0.0500	-4.900	25.00
4-Chloroaniline	0.4290	0.4451	0.0500	-3.800	25.00
Hexachlorobutadiene	0.1300	0.1358	0.0500	-4.500	20.00
4-Chloro-3-methylphenol	0.3210	0.3172	0.0500	1.200	20.00
2-Methylnaphthalene	0.6000	0.6386	0.0500	-6.400	25.00
Hexachlorocyclopentadiene	0.1830	0.1400	0.0500	23.500	25.00
2,4,6-Trichlorophenol	0.3000	0.2958	0.0500	1.400	25.00
2,4,5-Trichlorophenol	0.3190	0.3134	0.0500	1.800	25.00
2-Chloronaphthalene	1.0000	1.0465	0.0500	-4.600	25.00
2-Nitroaniline	0.4420	0.4108	0.0500	7.000	25.00
Dimethyl phthalate	1.1770	1.1957	0.0500	-1.600	25.00
Acenaphthylene	1.6190	1.6882	0.0500	-4.300	25.00
2,6-Dinitrotoluene	0.2730	0.2737	0.0500	-0.300	25.00
3-Nitroaniline	0.3630	0.3594	0.0500	1.000	25.00
Acenaphthene	0.9360	0.9627	0.0500	-2.800	20.00
2,4-Dinitrophenol	0.0850	0.0564	0.0500	33.600	40.00
4-Nitrophenol	0.1370	0.1186	0.0500	13.400	40.00
Dibenzofuran	1.3640	1.3895	0.0500	-1.900	25.00
2,4-Dinitrotoluene	0.3620	0.3627	0.0500	-0.200	25.00
Diethyl phthalate	1.2780	1.2537	0.0500	1.900	25.00
4-Chlorophenyl phenyl ether	0.5730	0.5635	0.0500	1.600	25.00
Fluorene	1.0870	1.1437	0.0500	-5.200	25.00
4-Nitroaniline	0.3390	0.3246	0.0500	4.200	25.00

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SEMIVOLATILE 3RD ED: 50NG CONT
CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0005959-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100103

ab File Id: W53249.RR Calibration Date: 10/06/2003 Time: 08:41

ntrument ID: I50W-A Init. Calib. Date(s): 09/30/2003 09/30/2003

Init. Calib. Times: 08:07 10:58

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	2.1810	2.1018	0.0500	3.600	20.00
Bis(2-chloroethyl) ether	1.8670	1.7706	0.0500	5.200	25.00
2-Chlorophenol	1.5030	1.4832	0.0500	1.300	25.00
Benzyl alcohol	1.0220	1.0016	0.0500	2.000	25.00
2-Methylphenol	1.3590	1.3298	0.0500	2.100	25.00
2,2'-Oxybis(1-Chloropropane)	3.0410	2.6778	0.0500	11.900	25.00
4-Methylphenol	1.4610	1.4671	0.0500	-0.400	25.00
N-Nitroso-Di-n-propylamine	1.2990	1.1723	0.0500	9.800	25.00
Hexachloroethane	0.6720	0.6592	0.0500	1.900	25.00
Nitrobenzene	0.4510	0.4277	0.0500	5.200	25.00
Isophorone	0.9040	0.8752	0.0500	3.200	25.00
2-Nitrophenol	0.1870	0.1973	0.0500	-5.500	20.00
2,4-Dimethylphenol	0.3400	0.3377	0.0500	0.700	25.00
Benzoic acid	0.1020	0.1302	0.0500	-27.600	40.00
Bis(2-chloroethoxy) methane	0.5370	0.5280	0.0500	1.700	25.00
2,4-Dichlorophenol	0.2610	0.2752	0.0500	-5.400	20.00
Naphthalene	0.9570	0.9930	0.0500	-3.800	25.00
4-Chloroaniline	0.4290	0.4460	0.0500	-4.000	25.00
Hexachlorobutadiene	0.1300	0.1340	0.0500	-3.100	20.00
4-Chloro-3-methylphenol	0.3210	0.3250	0.0500	-1.200	20.00
2-Methylnaphthalene	0.6000	0.6452	0.0500	-7.500	25.00
Hexachlorocyclopentadiene	0.1830	0.1214	0.0500	33.700	25.00
2,4,6-Trichlorophenol	0.3000	0.3085	0.0500	-2.800	25.00
2,4,5-Trichlorophenol	0.3190	0.3229	0.0500	-1.200	25.00
2-Chloronaphthalene	1.0000	1.0463	0.0500	-4.600	25.00
2-Nitroaniline	0.4420	0.4010	0.0500	9.300	25.00
Dimethyl phthalate	1.1770	1.2094	0.0500	-2.800	25.00
Acenaphthylene	1.6190	1.7026	0.0500	-5.200	25.00
2,6-Dinitrotoluene	0.2730	0.2819	0.0500	-3.300	25.00
3-Nitroaniline	0.3630	0.3713	0.0500	-2.300	25.00
Acenaphthene	0.9360	0.9664	0.0500	-3.200	20.00
2,4-Dinitrophenol	0.0850	0.1489	0.0500	-75.200	40.00
4-Nitrophenol	0.1370	0.1256	0.0500	8.300	40.00
Dibenzofuran	1.3640	1.4164	0.0500	-3.800	25.00
2,4-Dinitrotoluene	0.3620	0.3670	0.0500	-1.400	25.00
Diethyl phthalate	1.2780	1.2620	0.0500	1.200	25.00
4-Chlorophenyl phenyl ether	0.5730	0.5688	0.0500	0.700	25.00
Fluorene	1.0870	1.1598	0.0500	-6.700	25.00
4-Nitroaniline	0.3390	0.3545	0.0500	-4.600	25.00

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SEMIVOLATILE 3RD ED: 30NG CONT
CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006034-2

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 100703

Lab File Id: V00168.RR Calibration Date: 10/10/2003 Time: 08:47

Intrument ID: HP5973V Init. Calib. Date(s): 10/01/2003 10/01/2003

Init. Calib. Times: 14:55 16:45

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1670	0.1680	0.0500	-0.600	100.00
Caprolactam	0.0830	0.1144	0.0500	-37.800	40.00
Acetophenone	1.6220	1.9865	0.0500	-22.500	100.00
Biphenyl	1.2850	1.2985	0.0500	-1.000	100.00
Benzaldehyde	1.2150	0.7885	0.0500	35.100	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006152-2

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 101503

Lab File Id: W53438.RR Calibration Date: 10/20/2003 Time: 08:15

Intrument ID: I50W-A Init. Calib. Date(s): 09/16/2003 09/16/2003

Init. Calib. Times: 08:06 10:57

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1860	0.2052	0.0500	-10.300	100.00
Caprolactam	0.1180	0.1362	0.0500	-15.400	40.00
Acetophenone	1.5490	1.9439	0.0500	-25.500	100.00
Biphenyl	1.1710	1.5499	0.0500	-32.400	100.00
Benzaldehyde	1.2790	0.9015	0.0500	29.500	100.00

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WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 100803

GC Column(1): RTXCLPI ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	GW03-001A-P2	86		72								0
2	GW03-006A-P4	62		110								0
3	GW03-008A-P2	44		52								0
4	GW03-008A-P3	31		29	*							1
5	GW03-008A-P3	98		84								0
6	GW03-010B-P5	82		54								0
7	GW03-013A-P1	0	*	4	*							2
8	GW03-013A-P1	100		92								0
9	GW03-013B-P4	36		48								0
10	GW03-013B-P5	69		84								0
11	GW03-013C-P7	2	*	20	*							2
12	Matrix Spike Blank	60		62								0
13	Matrix Spike Blank	58		45								0
14	Matrix Spike Blank	86		69								0
15	Method Blank	58		65								0
16	Method Blank	48		34	*							1
17	Method Blank	86		70								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(28-132)
(TCMX) = Tetrachloro-m-xylene	(36-132)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 100803

GC Column(1): ZB-5 ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	GW03-006A-P4	44		74								0
2	GW03-007A-P3	55		59								0
3	GW03-008A-P2	14	*	17	*							2
4	GW03-008A-P2	72		84								0
5	GW03-008A-P3	18	*	28	*							2
6	GW03-008A-P3	82		94								0
7	GW03-010B-P5	62		72								0
8	GW03-013A-P1	54		66								0
9	GW03-013B-P4	2	*	6	*							2
10	GW03-013B-P4	76		92								0
11	GW03-013B-P5	62		55								0
12	~~GW03-013C-P7~~	~~26~~	~~*~~	~~50~~								~~1~~
13	Matrix Spike Blank	65		73								0
14	Matrix Spike Blank	55		76								0
15	Matrix Spike Blank	70		95								0
16	Method Blank	66		72								0
17	Method Blank	34		46								0
18	Method Blank	70		83								0

QC LIMITS

(DCBP) = Decachlorobiphenyl (28-132)
(TCMX) = Tetrachloro-m-xylene (36-132)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 100903

GC Column(1): ZB-5 ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	GW03-008B-P6	10	*	23	*							2
2	GW03-008B-P6 RE	47		91								0
3	GW03-009A-P2	78		84								0
4	GW03-010A-P1	83		75								0
5	GW03-010A-P1	96		78								0
6	GW03-010A-P1	98		98								0
7	GW03-010B-P6	54		58								0
8	GW03-011A-P1	44		40								0
9	GW03-012B-P5	81		54								0
10	GW03-012B-P6	70		77								0
11	GW03-013C-P7	22	*	42								1
12	Matrix Spike Blank	55		76								0
13	Matrix Spike Blank	70		95								0
14	Matrix Spike Blank	74		86								0
15	Method Blank	34		46								0
16	Method Blank	70		83								0
17	Method Blank	72		78								0

DP 1/30/03

QC LIMITS

(DCBP) = Decachlorobiphenyl (28-132)
(TCMX) = Tetrachloro-m-xylene (36-132)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 101503

GC Column(1): RTXCLPII ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	GW03-007B-P5	52		73								0
2	GW03-012A-P3	12	*	30	*							2
3	GW03-013B-P6	32		70								0
4	Matrix Spike Blank	69		78								0
5	Matrix Spike Blk Dup	66		89								0
6	Method Blank	66		72								0

QC LIMITS

(DCBP) = Decachlorobiphenyl (28-132)
(TCMX) = Tetrachloro-m-xylene (36-132)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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PESTICIDE CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Buffalo Contract:

Instrument: HP5890-9 A ICAL Date(s) Analyzed:

Column: RTX-CLP I 10/09/03 to 10/09/03

CCV ID: ICM25MQ Date/Time Analyzed: 10/10/03 03:44

FILE ID: H:\TURBO4\5890-9\9A29025.rst

		DAILY	WINDOW	Calc	Expected	
COMPOUND	RT	From	To	Amt.(ug/mL)	Amt.(ug/mL)	% D
alpha-BHC	10.58	10.53	10.63	0.0540	0.0500	7.9
gamma-BHC	11.43	11.38	11.48	0.0544	0.0500	8.8
beta-BHC	11.68	11.63	11.73	0.0559	0.0500	11.7
delta-BHC	12.13	12.08	12.18	0.0516	0.0500	3.2
Heptachlor	12.67	12.62	12.72	0.0588	0.0500	17.6 *
Aldrin	13.40	13.35	13.45	0.0532	0.0500	6.3
Hept. epoxide	14.82	14.77	14.87	0.0554	0.0500	10.8
gamma chlordane	15.12	15.07	15.17	0.0548	0.0500	9.6
alpha chlordane	15.42	15.37	15.47	0.0537	0.0500	7.4
4,4'-DDE	15.62	15.57	15.67	0.0519	0.0500	3.7
Endosulfan I	15.72	15.67	15.77	0.0562	0.0500	12.5
Dieldrin	16.26	16.21	16.31	0.0546	0.0500	9.2
Endrin	16.77	16.72	16.82	0.0554	0.0500	10.8
4,4'-DDD	16.92	16.87	16.97	0.0544	0.0500	8.9
Endosulfan II	17.26	17.21	17.31	0.0548	0.0500	9.6
4,4'-DDT	17.53	17.48	17.58	0.0547	0.0500	9.5
Endrin aldehyde	18.16	18.11	18.21	0.0599	0.0500	19.8 *
methoxychlor	18.59	18.54	18.64	0.0632	0.0500	26.4 *
Endo. Sulfate	19.10	19.05	19.15	0.0547	0.0500	9.3
Endrin ketone	19.72	19.67	19.77	0.0559	0.0500	11.8

* Value >15.0% Difference

Average %D = 10.7

FORM VII Pest

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PESTICIDE CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Buffalo Contract:

Instrument: HP5890-9 A ICAL Date(s) Analyzed:

Column: RTX-CLP I 10/09/03 to 10/09/03

CCV ID: ICM25KB Date/Time Analyzed: 10/10/03 10:53

FILE ID: H:\TURBO4\5890-9\9A29040.rst

		DAILY	WINDOW	Calc	Expected	
COMPOUND	RT	From	To	Amt.(ug/mL)	Amt.(ug/mL)	% D
alpha-BHC	10.58	10.53	10.63	0.0541	0.0500	8.3
gamma-BHC	11.43	11.38	11.48	0.0540	0.0500	7.9
beta-BHC	11.68	11.63	11.73	0.0537	0.0500	7.5
delta-BHC	12.13	12.08	12.18	0.0529	0.0500	5.8
Heptachlor	12.66	12.61	12.71	0.0595	0.0500	19.0 *
Aldrin	13.40	13.35	13.45	0.0527	0.0500	5.4
Hept. epoxide	14.82	14.77	14.87	0.0555	0.0500	10.9
gamma chlordane	15.11	15.06	15.16	0.0544	0.0500	8.8
alpha chlordane	15.42	15.37	15.47	0.0544	0.0500	8.7
4,4'-DDE	15.61	15.56	15.66	0.0529	0.0500	5.7
Endosulfan I	15.71	15.66	15.76	0.0549	0.0500	9.7
Dieldrin	16.26	16.21	16.31	0.0543	0.0500	8.6
Endrin	16.77	16.72	16.82	0.0572	0.0500	14.5
4,4'-DDD	16.92	16.87	16.97	0.0556	0.0500	11.2
Endosulfan II	17.26	17.21	17.31	0.0544	0.0500	8.8
4,4'-DDT	17.53	17.48	17.58	0.0554	0.0500	10.7
Endrin aldehyde	18.16	18.11	18.21	0.0541	0.0500	8.2
methoxychlor	18.58	18.53	18.63	0.0658	0.0500	31.7 *
Endo. Sulfate	19.09	19.04	19.14	0.0537	0.0500	7.4
Endrin ketone	19.72	19.67	19.77	0.0545	0.0500	9.1

* Value >15.0% Difference

Average %D = 10.4

FORM VII Pest

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PESTICIDE CONTINUING CALIBRATION VERIFICATION

Lab Name: STL Buffalo Contract:

Instrument: HP5890-9 A ICAL Date(s) Analyzed:

Column: RTX-CLP I 10/09/03 to 10/09/03

CCV ID: ICM25MQ Date/Time Analyzed: 10/10/03 17:04

FILE ID: H:\TURBO4\5890-9\9A29053.rst

		DAILY	WINDOW	Calc	Expected	
COMPOUND	RT	From	To	Amt.(ug/mL)	Amt.(ug/mL)	% D
alpha-BHC	10.59	10.54	10.64	0.0554	0.0500	10.8
gamma-BHC	11.44	11.39	11.49	0.0551	0.0500	10.3
beta-BHC	11.69	11.64	11.74	0.0548	0.0500	9.6
delta-BHC	12.14	12.09	12.19	0.0540	0.0500	8.0
Heptachlor	12.68	12.63	12.73	0.0615	0.0500	22.9 *
Aldrin	13.41	13.36	13.46	0.0543	0.0500	8.5
Hept. epoxide	14.84	14.79	14.89	0.0568	0.0500	13.6
gamma chlordane	15.13	15.08	15.18	0.0558	0.0500	11.6
alpha chlordane	15.44	15.39	15.49	0.0539	0.0500	7.8
4,4'-DDE	15.63	15.58	15.68	0.0544	0.0500	8.8
Endosulfan I	15.73	15.68	15.78	0.0565	0.0500	12.9
Dieldrin	16.28	16.23	16.33	0.0559	0.0500	11.7
Endrin	16.79	16.74	16.84	0.0594	0.0500	18.7 *
4,4'-DDD	16.93	16.88	16.98	0.0573	0.0500	14.6
Endosulfan II	17.28	17.23	17.33	0.0556	0.0500	11.2
4,4'-DDT	17.55	17.50	17.60	0.0567	0.0500	13.3
Endrin aldehyde	18.18	18.13	18.23	0.0582	0.0500	16.4 *
methoxychlor	18.60	18.55	18.65	0.0673	0.0500	34.7 *
Endo. Sulfate	19.11	19.06	19.16	0.0554	0.0500	10.9
Endrin ketone	19.74	19.69	19.79	0.0563	0.0500	12.5

* Value >15.0% Difference

Average %D = **13.4**

FORM VII Pest

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GC INJECTION LOGBOOK

INSTRUMENT ID HP5890-9 COLUMN ID'S A RTXCLP1 B RTXCLPII SEQUENCE 29

SYRINGE LOT# SOLVENT LOT#

DATE & INIT.	JOB #	A VIAL ID	A DF	B VIAL ID	B DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS
10/9/03		1cm25MP							B	
MW		MO								
		MQ								
		MO	10							
		MQ	10			5				
		ACM2508								A OK, B OK
		1cm3DAG								
		DAF	2							
		DAJ								
		DAG	10			10				
		DAJ	10							
		1CM11HD								
		HC								
		HC	2							
		HC	10			15				
		HC	20							
		ACM11CA								
		1cm14HD								
		HC								
		HE				20				
		HC	10							
		HE	10							
		ACM14DA								
		1CM1KB		PBM		✓				A ok B ok
		25MQ				25 ✓				A heptachlor, Endrin aldehyde, methoxychlor ↑ B heptachlor ↓
		3DAJ		PIB-K ✓						
		2nd A49		GPC Check						
		PCB								
		Blank								
	QC	AW300-12910				30				
		12911								
	9293	12901								
		12902								
		12903								
		12904				35				
	9296	12905								
		12906								
		12907								

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GC INJECTION LOGBOOK

INSTRUMENT ID HP5890-9 COLUMN ID'S A RTXCLP1 B RTXCLPII SEQUENCE 29

SYRINGE LOT# SOLVENT LOT#

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS VOL	COMMENTS
	9890	AW3001 4022				188		7HGED A+B	B	Cu++
	9933	14023								Cu++
		14024				190				
		14025								
		14026								
		14027								Cu++
	CCV	ICM 25MR								A Several ↑, B OK
	IBLK	3 DAK				195				AOK BOK
	9933	AW3001 4028								Cu++
		14029								Cu++
		14030								
	PEM	ICM 1 KC								AOK BOK
	CCV	25 MR				200				A Several ↑, BOK
	IBLK	3 DAK								A TRACE ↑, B TRACE ↑
	9890	AW3001 4021								Cu ↑
		1cm 25MR								A-Some high B hydrocarbon ↓
		3DAK								AOK BOK
10/10/03 AW		1cm 1KC				205				AOK BOK
		25MR								AOK B hydrocarbon ↓
		3DAK								AOK BOK
	9935	AW3001 4095								
	9979	14096								Cu ↑
		14097				210				
	QC	14098								
		14099								
		14100								
	9816	14090								
		14091				215				
		1cm 25MR								A several high, BOK
		3DAK								AOK BOK
										~~clean~~

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GC INJECTION LOGBOOK

INSTRUMENT ID HP5890-9 COLUMN ID'S A RTXCLP1 B RTXCLP11 SEQUENCE 29

SYRINGE LOT# SOLVENT LOT#

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS
	9296	AW300 12908								(A) heptachlor, methoxychlor ↑ (B) methoxychlor ↑
		1cm25KB				40				(A) ok (B) ok
		↓ 3DAT								
	↓	AW300 12909								
	QC	13045		MJ						
	↓	13046		MJ						
	9369	13047				45				
		13048		MJ						
		13049		MJ						
		13050								Copper treated
		13051								
		13052				50				
		13053								
		1cm1KB								A some ↑ B methoxychlor ↑
		25MQ								A ok B ok
		↓ 3DAT								
	9355	AW300 13044				55				
	9399	13054								
		13055								
		13056								
	9405	13057								
		13058				60				Copper treated
		13059								
		13060								
		13061								
	9487	13332				65				
		1cm25MQ								
		3DAT								
	QC	AW300 13333								
		13334								
	↓	13335								
	9504	13336				70				
	↓	13337								
	9539	13338								
		13339								
		13340								
		13341				75				
	9549	13342								

Bad CCVs, Several Need Copper treating

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GC INJECTION LOGBOOK

INSTRUMENT ID HP5890-9 COLUMN ID'S A RTXCLP1 B RTXCLP2 SEQUENCE 29

SYRINGE LOT# _____ SOLVENT LOT# _____

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS
	9555	AW300 13386				150			Y	CLP
		13387								
	9564	13391								
		13392								
		13393								
		13400				155				
		13401								
10/17/03		ICM3DAE								
		4KD								
		5JD								
		AW300 13398				160				
		13399								
	9555	13388								
		13389								
		13390								
	9564 9569	10/17/03 13394				165				
		13395								
		13396								
		13397								
		Rerunes								
		ICM3DAE				170				
		1KC								
		42MB								
		48LB								
		54NH								
		66DB				175				
10/17/03		Primo								
	PEM	ICM 1KC								AOK BOK
	CCV	25MR				180		1400 A+B		A methoxy ↑, B heptachlor ↓
	IBLK	3DAK								AOK BOK
	CCV	ACM 11CA								AOK B↑
	CCV	14DA								~~AOK~~ BOK
	9888	AW300 14018								Cont
	9890	14019				185				Cont
		14020								
		14021				187				

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WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3944902

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 100103

atrix Spike - Client Sample No.: GW03-006B-P5

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.	+
Aldrin	0.500	0	0.366	73	28 - 125	
alpha-BHC	0.500	0	0.375	75	37 - 134	
beta-BHC	0.500	0	0.427	85	44 - 135	
delta-BHC	0.500	0	0.331	66	41 - 131	
gamma-BHC (Lindane)	0.500	0	0.388	78	32 - 127	
4,4'-DDD	0.500	0	0.420	84	49 - 142	
4,4'-DDE	0.500	0	0.405	81	34 - 142	
4,4'-DDT	0.500	0.0160	0.356	68	50 - 141	
Dieldrin	0.500	0	0.421	84	46 - 136	
Endosulfan I	0.500	0	0.414	83	46 - 135	
Endosulfan II	0.500	0	0.341	68	41 - 136	
Endosulfan Sulfate	0.500	0	0.390	78	47 - 143	
Endrin aldehyde	0.500	0	0	0 *	43 - 130	
Endrin	0.500	0	0.397	79	30 - 147	
Heptachlor	0.500	0	0.189	38	37 - 125	
Heptachlor epoxide	0.500	0	0.426	85	49 - 134	
Methoxychlor	0.500	0	0.307	61	38 - 153	

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aldrin	0.500	0.385	77	5	30	28 - 125	
alpha-BHC	0.500	0.383	77	3	30	37 - 134	
beta-BHC	0.500	0.452	90	6	30	44 - 135	
delta-BHC	0.500	0.373	75	13	30	41 - 131	
gamma-BHC (Lindane)	0.500	0.407	81	4	30	32 - 127	
4,4'-DDD	0.500	0.444	89	6	30	49 - 142	
4,4'-DDE	0.500	0.431	86	6	30	34 - 142	
4,4'-DDT	0.500	0.390	75	10	30	50 - 141	
Dieldrin	0.500	0.446	89	6	30	46 - 136	
Endosulfan I	0.500	0.441	88	6	30	46 - 135	
Endosulfan II	0.500	0.410	82	19	30	41 - 136	
Endosulfan Sulfate	0.500	0.441	88	12	30	47 - 143	
Endrin aldehyde	0.500	0	0 *	0	30	43 - 130	
Endrin	0.500	0.428	86	8	30	30 - 147	
Heptachlor	0.500	0.211	42	10	30	37 - 125	
Heptachlor epoxide	0.500	0.452	90	6	30	49 - 134	
Methoxychlor	0.500	0.368	74	19	30	38 - 153	

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WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3993304

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 101403

Matrix Spike - Client Sample No.: GW03-011A-P2

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.	+
Aldrin	0.476	0	0.213	45	28 - 125	
alpha-BHC	0.476	0	0.404	85	37 - 134	
beta-BHC	0.476	0	0.463	97	44 - 135	
delta-BHC	0.476	0	0.340	71	41 - 131	
gamma-BHC (Lindane)	0.476	0	0.421	89	32 - 127	
4,4'-DDD	0.476	0	0.441	93	49 - 142	
4,4'-DDE	0.476	0	0.424	89	34 - 142	
4,4'-DDT	0.476	0	0.371	78	50 - 141	
Dieldrin	0.476	0	0.431	91	46 - 136	
Endosulfan I	0.476	0	0.417	88	46 - 135	
Endosulfan II	0.476	0	0.347	73	41 - 136	
Endosulfan Sulfate	0.476	0	0.375	79	47 - 143	
Endrin aldehyde	0.476	0	0	0 *	43 - 130	
Endrin	0.476	0	0.466	98	30 - 147	
Heptachlor	0.476	0	0.111	23 *	37 - 125	
Heptachlor epoxide	0.476	0	0.426	90	49 - 134	
Methoxychlor	0.476	0	0.320	67	38 - 153	

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aldrin	0.476	0.152	32	34 *	30	28 - 125	
alpha-BHC	0.476	0.398	84	1	30	37 - 134	
beta-BHC	0.476	0.458	96	1	30	44 - 135	
delta-BHC	0.476	0.323	68	4	30	41 - 131	
gamma-BHC (Lindane)	0.476	0.415	87	2	30	32 - 127	
4,4'-DDD	0.476	0.438	92	1	30	49 - 142	
4,4'-DDE	0.476	0.418	88	1	30	34 - 142	
4,4'-DDT	0.476	0.371	78	0	30	50 - 141	
Dieldrin	0.476	0.428	90	1	30	46 - 136	
Endosulfan I	0.476	0.413	87	1	30	46 - 135	
Endosulfan II	0.476	0.335	70	4	30	41 - 136	
Endosulfan Sulfate	0.476	0.364	77	2	30	47 - 143	
Endrin aldehyde	0.476	0	0 *	0	30	43 - 130	
Endrin	0.476	0.458	96	2	30	30 - 147	
Heptachlor	0.476	0.0866	18 *	24	30	37 - 125	
Heptachlor epoxide	0.476	0.427	90	0	30	49 - 134	
Methoxychlor	0.476	0.302	64	4	30	38 - 153	

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WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3979403

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 100903

Matrix Spike - Client Sample No.: GW03-012B-P6

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.	+
Aldrin	0.917	0	0.618	67	28 - 125	
alpha-BHC	0.917	0	0.629	69	37 - 134	
beta-BHC	0.917	0	0.728	79	44 - 135	
delta-BHC	0.917	0	0.651	71	41 - 131	
gamma-BHC (Lindane)	0.917	0	0.669	73	32 - 127	
4,4'-DDD	0.917	0	0.741	81	49 - 142	
4,4'-DDE	0.917	0	0.710	77	34 - 142	
4,4'-DDT	0.917	0	0.732	80	50 - 141	
Dieldrin	0.917	0	0.746	81	46 - 136	
Endosulfan I	0.917	0	0.770	84	46 - 135	
Endosulfan II	0.917	0	0.803	88	41 - 136	
Endosulfan Sulfate	0.917	0	0.772	84	47 - 143	
Endrin aldehyde	0.917	0	0.539	59	43 - 130	
Endrin	0.917	0	0.777	85	30 - 147	
Heptachlor	0.917	0	0.671	73	37 - 125	
Heptachlor epoxide	0.917	0	0.750	82	49 - 134	
Methoxychlor	0.917	0	0.783	85	38 - 153	

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aldrin	0.917	0.638	70	4	30	28 - 125	
alpha-BHC	0.917	0.667	73	6	30	37 - 134	
beta-BHC	0.917	0.726	79	0	30	44 - 135	
delta-BHC	0.917	0.642	70	1	30	41 - 131	
gamma-BHC (Lindane)	0.917	0.688	75	3	30	32 - 127	
4,4'-DDD	0.917	0.732	80	1	30	49 - 142	
4,4'-DDE	0.917	0.686	75	3	30	34 - 142	
4,4'-DDT	0.917	0.715	78	2	30	50 - 141	
Dieldrin	0.917	0.743	81	0	30	46 - 136	
Endosulfan I	0.917	0.781	85	1	30	46 - 135	
Endosulfan II	0.917	0.794	86	2	30	41 - 136	
Endosulfan Sulfate	0.917	0.750	82	2	30	47 - 143	
Endrin aldehyde	0.917	0.407	44	29	30	43 - 130	
Endrin	0.917	0.770	84	1	30	30 - 147	
Heptachlor	0.917	0.675	74	1	30	37 - 125	
Heptachlor epoxide	0.917	0.748	82	0	30	49 - 134	
Methoxychlor	0.917	0.748	82	4	30	38 - 153	

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INSTRUMENT ID 4R5890-18 COLUMN ID'S A RTX CLP I B RTX CLP II SEQUENCE 28

SYRINGE LOT # SOLVENT LOT #

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y / N	COMMENTS
10/6/3		[redacted]		MSLH		897		TO "A"	Y	
GSR	9484	13208				~~895~~				
10/7/3		13246								Florisil Treated
		Hex				900				
		ICM 1 MB								A OK B OK
		25 µW								OK Endo II ↑
		3DAH								OK DCB ↑
		ICM 66	0.5	ASS-16796	908					Pattern Check Pattern Check
		54		97		905				
		48		89	910					
		42		90		907				
	9470	AW3-13241		91		920				Florisil
	9472	13242		92						+ Cu #
	9444	AW3-13241		93						
		Hexane		94	915					
	9449	[redacted]	(+Cu)	95	916					
		[redacted]		Hexane		925				
		[redacted]		ICM 25 µW						OK A, OK B RF 916 & 920
		[redacted]		ICM 3DAH	919					OK A OK B
		[redacted]								
	9458	[redacted]								
		[redacted]				930				
		ICM 25 µW								A OK B Hexane ↑
		3DAH								OK OK
		AW3-12824		MSB						
		AW3-12825		MSLH						
	9281	02				935				

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GC INJECTION LOG BOOK

INSTRUMENT ID: HP-5890 - 18 COLUMN ID'S A: RTXCLP-I B: RTXCLP-II SEQUENCE: 29

SYRINGE LOT #: SOLVENT LOT #:

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS	
GR/10/11/03	9631	AW3001 3474				83					
	PEM	ICM 1 KB								A OK	B OK
	CCV	25MQ				85				OK	Acpt + 21.87% D
	IBLK	3DAJ								OK	OK
	9394	AW3001 3475									
	9394	76									
		77									
	9541	78				90					
		79									
		80									
	9547	81									
		85									
	CCV	ICM 25MQ				95				A OK	B OK
	IBLK	3DAJ								OK	OK
GR 10/11/03	CCV	42LF	0.5	DF 2							
	9444	AW3001 3211									
	9449	~~13212~~								Cu++	
		~~13213~~				100					
		~~13214~~									
		~~13215~~									
		Hexane									
	PEM	ICM 1 KB								A OK	B OK
	CCV	25MQ				105				OK	Acpt - N.F.
	IBLK	3DAJ								OK	OK
						109					

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INSTRUMENT ID: HP-5890-18 | COLUMN ID'S A: RTXCLP-I B: RTXCLP-II | SEQUENCE: 29

SYRINGE LOT #: | SOLVENT LOT #:

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS	
BJ 10/13/03	PEM	ICM ~~1KB~~		1KC BJ 10/13/03		109		TX089 AMB	B	A ok	B ok
	CCV	25MQ				110				A ok	B DDT ↓ -16.6%
	IBLK	3DAJ								A OK	B OK
	9677	AS300 16980	10								
	—	Hexane									
	9677	AS300 16981									
		16982				115					
		16983									
		16984									
	QC	16978									
		16979									
BJ 10/14/03	CCV	ICM 25MQ	0.05			120				A ok	B Methoxychlor -16.9 4,4 DDT -20.4
	IBLK	3DAJ	0.05							A ok	B OK
	9599	AW300 13473								Cutt	
	9348	12954	4							Cutt	
	—	Hexane									
	9717	AW300 13658				125					
		13659									
		13660									
		13661									
		13662								Cutt	
	QC	13656				130					
		13657		BJ 10/14/03							
	PEM	ICM ~~1KC~~		3DAJ						A DCBP +15.1	B DCBP +16%
	CCV	~~25MQ~~		1KC						A OK	B OK
	IBLK	~~3DAJ~~		25MQ						A OK	B DDTW
	CCV	ACM 11CA	0.5			135				AT	BT

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GC INJECTION LOG BOOK
INSTRUMENT ID: HP-5890-18 COLUMN ID'S A: RTXCLP-I B: RTXCLP-II SEQUENCE: 29

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GC INJECTION LOG BOOK

INSTRUMENT ID HP-5890 -18 COLUMN ID'S A RTXCLP-I B RTXCLP-II SEQUENCE 29

SYRINGE LOT # SOLVENT LOT #

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS
B 10/14/10	CCV	ICM 14HC	0.5	DF 2		136		TOCD A+B	B	A OK B OK
	9739	AW300 13655				.				
	9767	13663				.				
		13664				.				Cu^{++}
		13665				140				Cu^{++}
		13666				.				
	9771	13667				.				
		13668				.				
		13669				.				
		13670				145				
	CCV	ICM 25MQ	0.05			.				A OK B OK DDTV Methoxychlor ↓
	IBLK	3DAJ	0.05			.				A OK B OK
	QC	AW300 13612		MSB		.				
		13613		MBLK		.				
	9694	13616				150				
	9646	13617				.				
		13618				.				
		13619				.				
		13620				.				
		13621				155				
	9689	13614	4			.				
	PEM	ICM 1KC				.				A OK B OK
B 10/15/10	CCV	25MQ	0.05			.				A OK B Hept + 18.8% D
	IBLK	3DAJ	0.05			.				A OK B OK
	CCV	26GA	0.05			160				A ↑ B ↑
	9689	AW300 13615								Cu^{++}
	9648	13622				162				Cu^{++}

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INSTRUMENT ID HP-5890 - 18 COLUMN ID'S A RTXCLP -I B RTXCLP - II SEQUENCE 29

SYRINGE LOT # SOLVENT LOT #

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS
10/15/00	9705	AW300 13623	4			163		TXCLP A&B		
		13624								
		13625				165				
		13626								
		13627								
		13628								
		13629								
		13630				170				Cu++
	CCV	ICM 25MQ	0.5							A OK B OK
	IBLK	3DAJ	0.05							A DCBP+ N.6% B DCBP+ N.1%
10/15/00	PEM	ICM 1KC								
	CCV	25MR								A ok B ok
	CCV/IBLK	3DAK				175				A DDE↓ DEB↑ B ok DOB↑
	9798	13734						TXD'S"		
		13735								
		13743								
		13744								
		13745				180				
	QC	13746								
		13747								
	QC	13899								
		13900								
		13901				185				
	CCV	ICM 25MR	0.05							A OK B ok
	IBLK	3DAK	0.05							A ok B ok
	9798	13902								
		13903				189				

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GC INJECTION LOG BOOK RTXCLP SEQUENCE 29

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GC INJECTION LOG BOOK

INSTRUMENT ID HP5890-18 COLUMN ID'S A RTXCLP1 B RTXCLP2 SEQUENCE 29

SYRINGE LOT # SOLVENT LOT #

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS
10/15/03	9798	AW300 13904				190		TXB"	Y	
		13905								
		13906								
		13910								Loaded on Inst #9
	PEM	ICM 1 KC				193				A OK B OK
	CCV	25 MR	0.05			~~195~~				A OK B OK
	TBLK	3 DAK	0.05			195				DCBP DCBP
	9694	AW300 13898		(Repeat)						
	9825	13732								
		13733								
	9746	13736				~~200~~				
		13737				200				
	9789	13738								
		13739								
		13740								
		13741				~~205~~				
		13742				205				
10/16/03	CCV	ICM 25 MR	0.05							A OK B OK
MM	TBLK	3 DAK	0.05							DCBP DCBP
	8752	AW300 13790								
	QC	13789				~~210~~				
		13788				210				Changed Septa
	9725	13802								
		13803								
	9781	13804								
		ICM28FB								A↑ B↑
	9797	AW300 13727				215				Copper treated

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INSTRUMENT ID HP5890-18 COLUMN ID'S A RTXCLPI B RTXCLPII SEQUENCE 29

SYRINGE LOT # SOLVENT LOT #

DATE & INIT.	JOB #	A VIAL ID	DF	B VIAL ID	DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS
	9797	AW30013728				216			B	Cut
		13729								
		13730		MS						
		1CM1KC								AOK BOK
		25MR				220				AOK B heptachlor ↓, DDT↓, Methoxy↓
		3DAR								A DCBP↑ B DCBP↑
		AW30013731		MSD						Cut
10/17/03 mm	9644	AS30016976	5							Cut
		16977	50							Cut
	9880	17226	~~50~~ 20	10/16/03 mm		225				
		17227								
		17228								
		17229								
		1CM25MR								
		3DAK				236				
	9905	AW30013623								Sample very yellow.
		1CM25MR								~~AOK BOK~~ A several↓ B several↓
		3DAK								A DCBP↑ B DCBP↑
10/17/03 mm		Primers				230A 234B				Changed lines
		1CM42ME				235			B	
		MD								
		MC								
		MD	10							
		MC	10							
		1CM48LE				240				
		LD								
		LC				242				

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GC INJECTION LOG BOOK

INSTRUMENT ID HP5890-18 COLUMN ID'S A RTXCLPI B RTXCLPII SEQUENCE 29

SYRINGE LOT # SOLVENT LOT #

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INSTRUMENT ID HP 5010 13 COLUMN ID'S A [illegible] B [illegible] SEQUENCE [illegible]

SYRINGE LOT # SOLVENT LOT #

DATE & INIT.	JOB #	A VIAL ID	A DF	B VIAL ID	B DF	FILE ID A	FILE ID B	GC METHOD	PROCESS Y/N	COMMENTS
10/20/03	A027	AW300 14210				297			R	
	↓	14211								
	QC	14212								
		14213				300				
	↓	14214								
	CCV	ICM 25MR	0.05							
	IBLK	↓ 3DAK	0.05							☆ A ↑ for both B ↑ for both
	A019	AW300 14169								
	↓	14170				305				
	QC	14171								
	↓	14172								
	9717	14173								
	↓	14174								Cut
	9771	14175				310				
		14176								
		14177								
	↓	14178								
	PEM	ICM 1KC								A OK B OK
	CCV	25MR	0.05			315				A OK B OK
	IBLK	↓ 3DAK	0.05							A DCBP ↑ B DCBP ↑ – recreated used
		3DAG	2							A OK B OK
	A019	AW300 14169								
	↓	14170								
	QC	14171				320				
	↓	14172								
	9717	14173								
	↓	14174								Cut

reshooting

reshooting

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Software Version: 4.1<2f12>
Sample Name :
Sample Number: A3924102
Operator :

Time : 10/08/03 15:32
Study : AW30012820

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

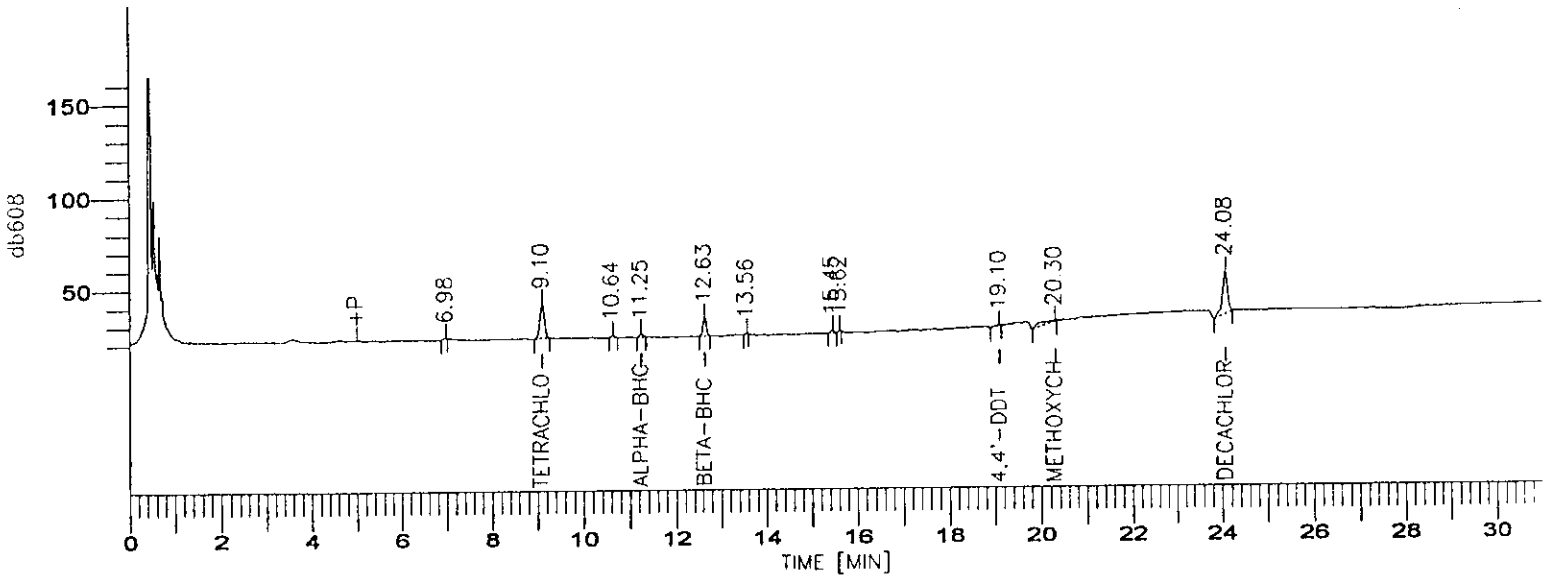
Channel : A A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/08/03 15:00
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RA28955.RAW
Result File : H:\TURBO4\5890-18\RA28955.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RA28955.RST
Proc Method : H:\TURBO4\5890-18\RAPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RAPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D28.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	6.98	1798		B	0.0018	303.61
2	9.10	130569	Tetrachloro-m-xylene	B	0.0148	18494.63
3	10.64	6277		B	0.0063	1125.15
4	11.25	10238	alpha-BHC	B	0.0034	1884.87
5	12.63	52420	beta-BHC	B	0.0089	9596.01
6	13.56	1647		B	0.0016	454.90
7	15.45	5885		B	0.0059	1268.91
8	15.61	1875		B	0.0019	458.21
9	19.10	3973	~~4,4'-DDT~~	B	0.0019	248.71
10	20.30	36934	~~methoxychlor~~	B	0.0077	349.73
11	24.08	171039	Decachlorobiphenyl	B	0.0208	22512.26
		422655			0.0750	56697.00

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Sample Name :
Sample Number: A3924102
Operator :

Time : 10/08/03 15:32
Study : AW30012820

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

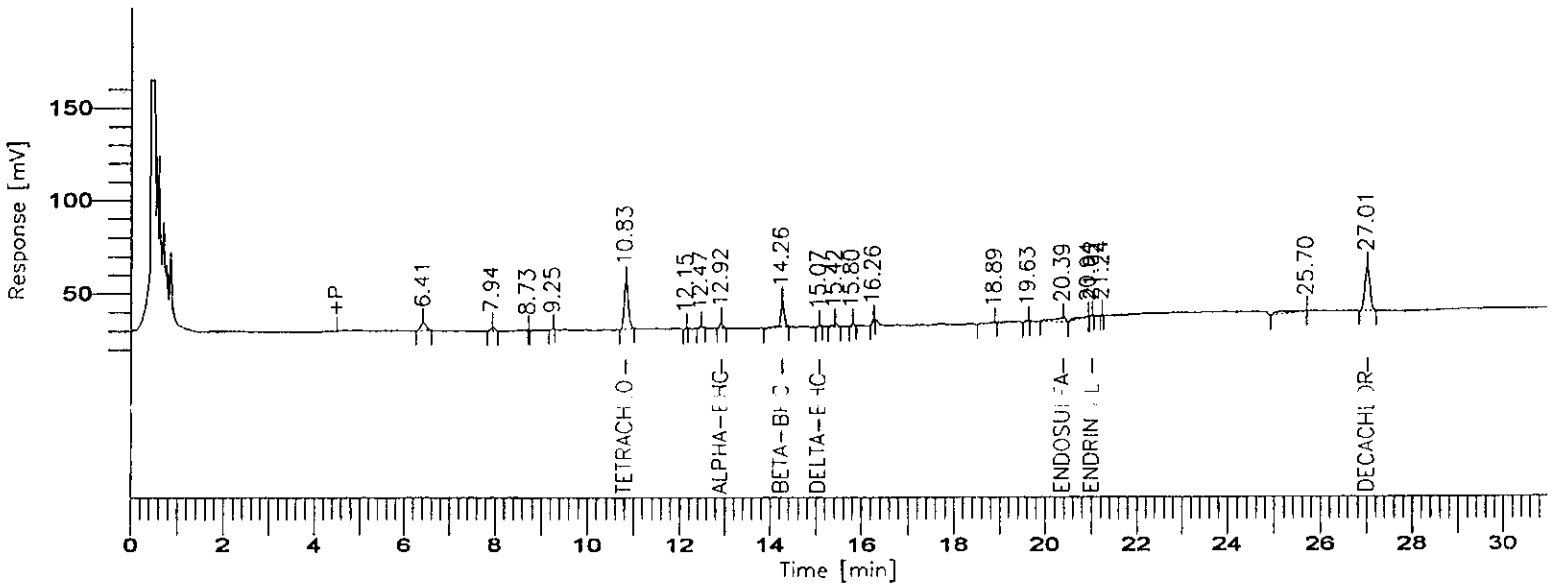
Channel : B A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/08/03 15:00
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RB28955.RAW
Result File : H:\TURBO4\5890-18\RB28955.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RB28955.RST
Proc Method : H:\TURBO4\5890-18\RBPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RBPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D28.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	6.41	37207		B	0.0372	4143.13
2	7.94	11307		B	0.0113	1758.73
4	9.25	1264		B	0.0013	277.93
5	10.83	164008	Tetrachloro-m-xylene	B	0.0152	26242.67
6	12.15	1220		B	0.0012	287.14
7	12.47	6040		B	0.0060	1159.31
8	12.92	13972	alpha-BHC	B	0.0024	2782.86
9	14.25	76895	beta-BHC	B	0.0104	13406.18
10	15.07	3426	~~delta-BHC~~	B	0.0022	795.85
11	15.42	11911		B	0.0119	1600.76
12	15.80	6136		B	0.0061	1418.47
13	16.26	4607		B	0.0046	1153.47
14	18.89	5304		B	0.0053	108.53
15	19.62	2819		B	0.0028	239.20
16	20.39	42920	~~Endosulfan II~~	B	0.0041	2320.77
17	20.94	17093		B	0.0171	1.36e-12
18	21.02	1061	~~Endrin aldehyde~~	B	-0.0007	239.06
20	25.70	41203		B	0.0412	5.70
21	27.01	182444	Decachlorobiphenyl	B	0.0164	23876.73
		630835			0.1963	81816.47

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Sample Name :
Sample Number: A3924101
Operator :

Time : 10/08/03 15:10
Study : AW30012819

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

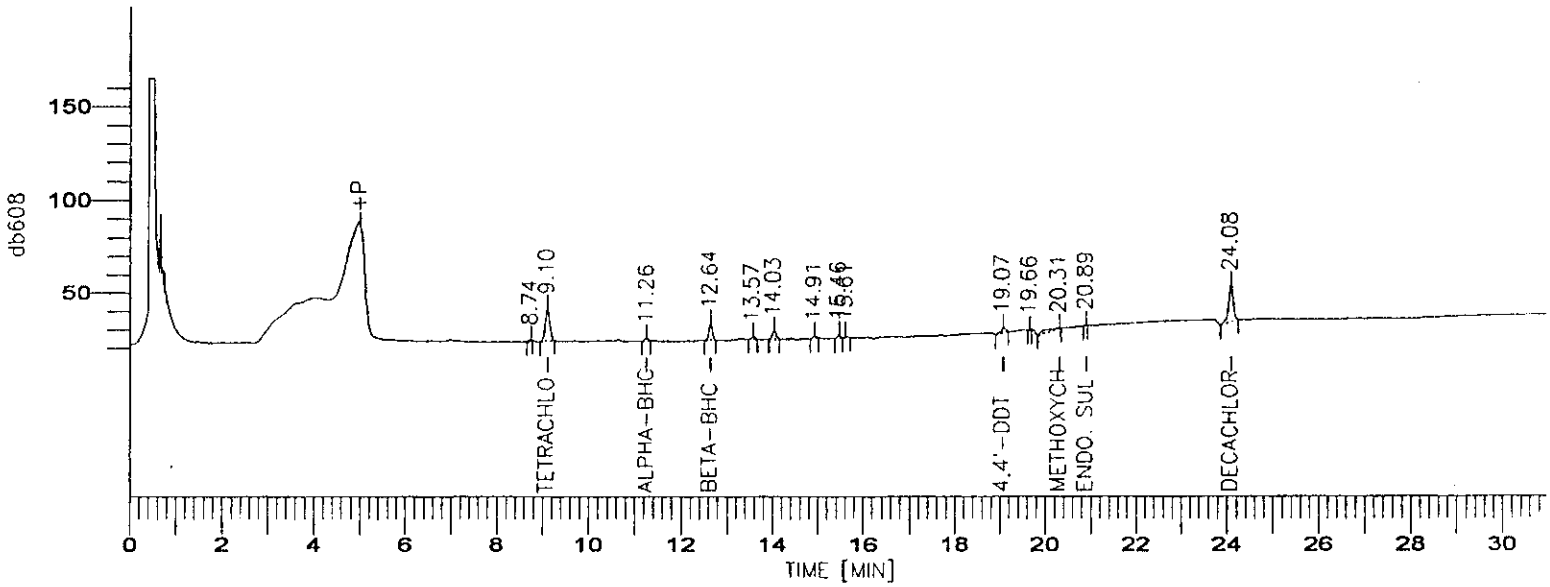
Channel : A A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/08/03 14:22
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RA28954.RAW
Result File : H:\TURBO4\5890-18\RA28954.rst
Inst Method : RDPPINS from H:\TURBO4\5890-18\RA28954.rst
Proc Method : H:\TURBO4\5890-18\RAPPPRC from H:\TURBO4\5890-18\RA28954.rst
Calib Method : H:\TURBO4\5890-18\RAPPO4 from H:\TURBO4\5890-18\RA28954.rst
Sequence File : H:\TURBO4\5890-18\18D28.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	8.74	1343		B	0.0013	285.05
2	9.10	121866	Tetrachloro-m-xylene	B	0.0138	17464.25
3	11.26	7564	alpha-BHC	B	0.0031	1434.88
4	12.64	49133	beta-BHC	B	0.0083	9001.80
5	13.57	7837		B	0.0078	1417.87
6	14.03	25145		B	0.0251	4460.12
7	14.91	7414		B	0.0074	1450.54
8	15.46	9111		B	0.0091	1902.81
9	15.61	4841		V	0.0048	919.07
10	19.07	19996	~~4,4'-DDT~~	B	0.0041	2610.42
12	20.31	29834	methoxychlor.	B	0.0061	276.02
14	24.08	141867	Decachlorobiphenyl	B	0.0168	19482.07
		425949			0.1078	60704.89

25.6 A
15.7 A

OCT 8 2003

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Software Version: 4.1<2F12>
Sample Name :
Sample Number: A3924101
Operator :

Time : 10/08/03 15:10
Study : AW30012819

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

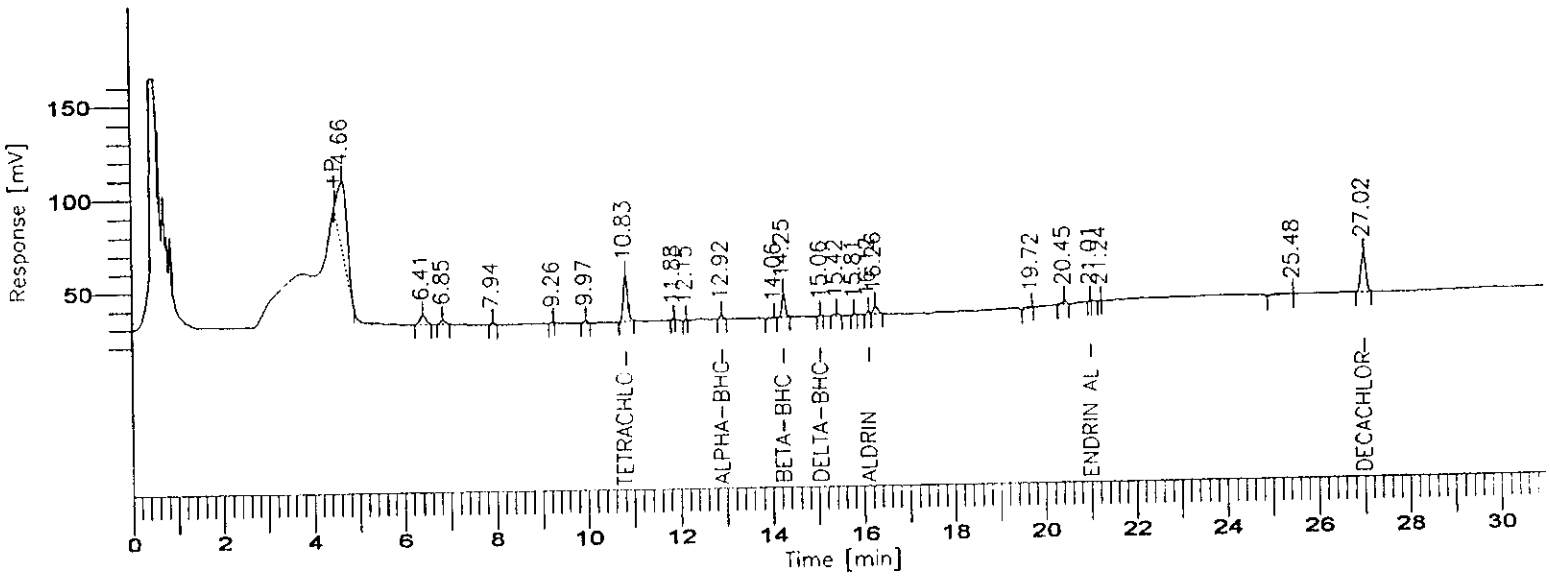
Channel : B A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/08/03 14:22
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RB28954.RAW
Result File : H:\TURBO4\5890-18\RB28954.rst
Inst Method : RDPPINS from H:\TURBO4\5890-18\RB28954.rst
Proc Method : H:\TURBO4\5890-18\RBPPPRC from H:\TURBO4\5890-18\RB28954.rst
Calib Method : H:\TURBO4\5890-18\RBPPO4 from H:\TURBO4\5890-18\RB28954.rst
Sequence File : H:\TURBO4\5890-18\18D28.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	4.66	509120		*B	0.5091	38214.29
2	6.41	48563		B	0.0486	5250.35
3	6.85	18112		B	0.0181	2155.60
4	7.94	5766		B	0.0058	973.96
5	9.26	1011		B	0.0010	210.76
6	9.97	7244		B	0.0072	1266.92
7	10.83	156345	Tetrachloro-m-xylene	B	0.0145	25036.77
10	12.92	11163	alpha-BHC	B	0.0023	2236.74
11	14.06	6035		B	0.0060	575.16
12	14.25	70852	beta-BHC	V	0.0096	12992.88
13	15.06	2322	~~delta-BHC~~	B	0.0021	572.31
14	15.42	10959		B	0.0110	1548.82
15	15.81	3417		B	0.0034	835.84
16	16.12	9796	~~Aldrin~~	B	0.0013	1799.66
17	16.26	33281		V	0.0333	4225.71
18	19.72	8000		B	0.0080	265.97
19	20.45	12771		B	0.0128	2138.13
22	25.48	14878		B	0.0149	6.45
23	27.01	161278	Decachlorobiphenyl	B	0.0141	21228.89
		1090913			0.7229	121535.21

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Software Version: 4.1<2812>
Sample Name :
Sample Number: A3918002
Operator :

Time : 10/13/03 13:40
Study : AW30012710

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

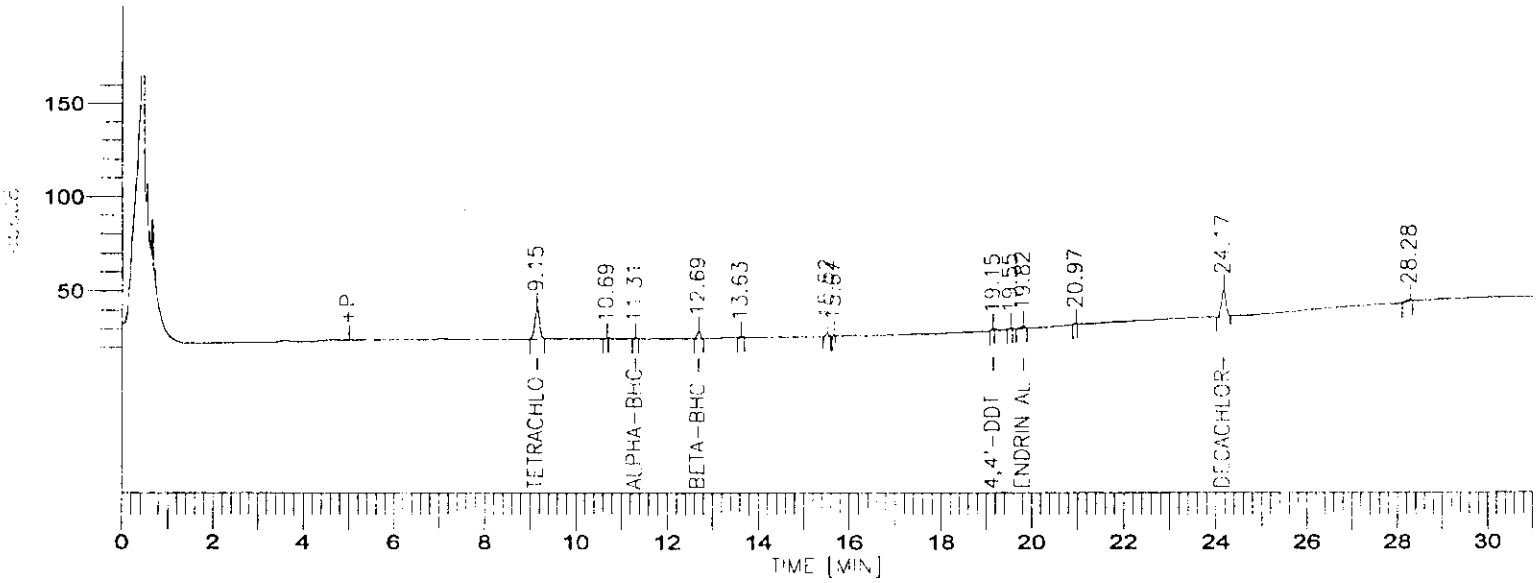
Channel : A A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/11/03 10:55
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RA29066.RAW
Result File : H:\TURBO4\5890-18\RA29066.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RA29066.RST
Proc Method : H:\TURBO4\5890-18\RAPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RAPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	9.15	118991	Tetrachloro-m-xylene	B	0.0135	16991.11
2	10.69	1019		B	0.0010	247.37
3	11.30	2925	~~alpha-BHC~~	B	0.0027	623.88
4	12.69	22384	~~beta-BHC~~	B	0.0033	4091.60
5	13.62	3955		B	0.0040	797.86
6	15.52	7355		B	0.0074	1579.31
8	19.15	1665	~~4,4'-DDT~~	B	0.0016	359.12
9	19.55	1389		B	0.0014	223.28
10	19.82	8054	~~Endrin aldehyde~~	B	0.0006	1186.57
12	24.17	95042	Decachlorobiphenyl	B	0.6102	14134.27
13	28.27	4093		B	0.0041	356.90
		266873			0.0497	40591.27

MUP 10/13/3

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Sample Name :
Sample Number: A3918002
Operator :

Time : 10/13/03 13:40
Study : AW30012710

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

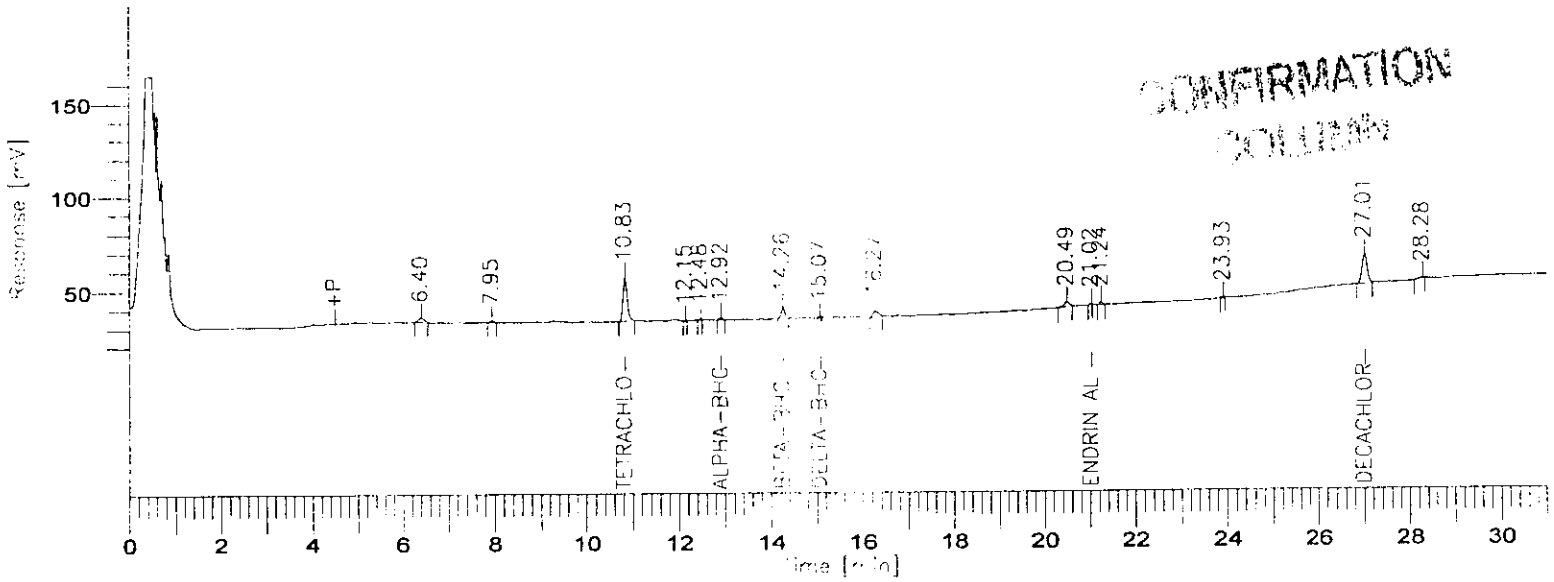
Channel : B A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/11/03 10:55
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RB29066.RAW
Result File : H:\TURBO4\5890-18\RB29066.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RB29066.RST
Proc Method : H:\TURBO4\5890-18\RBPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RBPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	6.40	20122		B	0.0201	2303.86
2	7.95	5339		B	0.0053	900.17
3	10.83	147119	Tetrachloro-m-xylene	B	0.0136	23137.57
6	12.92	4543	alpha-BHC	B	0.0018	961.80
7	14.26	28550	beta-BHC	B	0.0036	5401.22
9	16.27	21200		B	0.0212	3055.48
10	20.49	17803		B	0.0178	2502.91
11	21.02	1194	Endrin aldehyde	B	-0.0006	321.46
12	21.24	6906		B	0.0069	1597.81
14	27.01	116651	Decachlorobiphenyl	B	0.0091	15484.99
15	28.28	3306		B	0.0033	296.13
		372733			0.1022	55963.39

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Software Version: 4.1<2212>

Sample Name :
Sample Number: A3919202
Operator :

Time : 10/13/03 13:40
Study : AW30012712

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

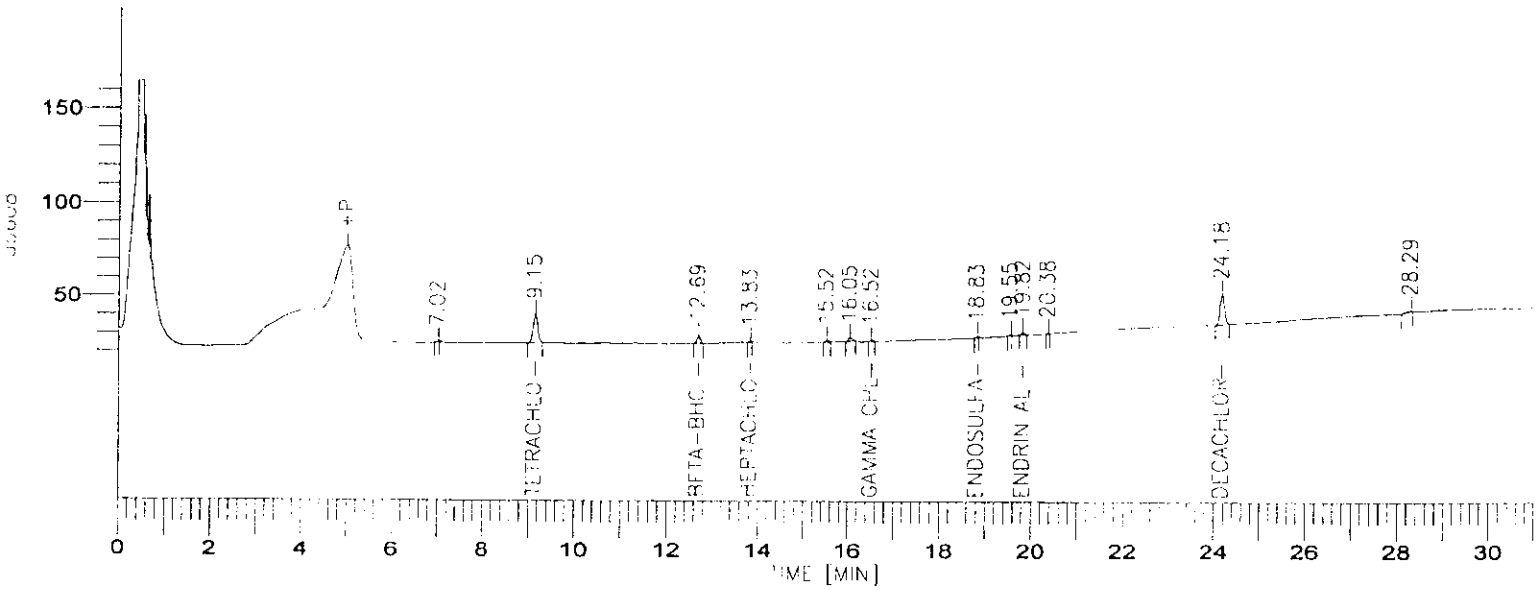
Channel : A A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/11/03 12:10
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RA29068.RAW
Result File : H:\TURBO4\5890-18\RA29068.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RA29068.RST
Proc Method : H:\TURBO4\5890-18\RAPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RAPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	7.02	1257		B	~~0.0013~~	240.52
2	9.15	111539	Tetrachloro-m-xylene	B	0.0126	15446.93
3	12.69	20433	~~beta-BHC~~	B	0.0029	3747.38
5	15.52	4653		B	0.0047	1029.97
6	16.05	12056		B	0.0121	1898.41
7	16.52	2713	~~gamma chlordane~~	B	-0.0004	641.99
8	18.83	1129	Endosulfan II	B	-0.0003	302.24
9	19.55	1066		B	0.0011	221.84
10	19.82	5458	Endrin aldehyde	B	~~0.0002~~	1302.87
11	24.18	109632	Decachlorobiphenyl	B	0.0123	16368.80
12	28.29	4071		B	0.0041	244.63
		274008			0.0503	41437.57

MCD 10/13/3

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Sample Name :
Sample Number: A3919202
Operator :

Time : 10/13/03 13:40
Study : AW30012712

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

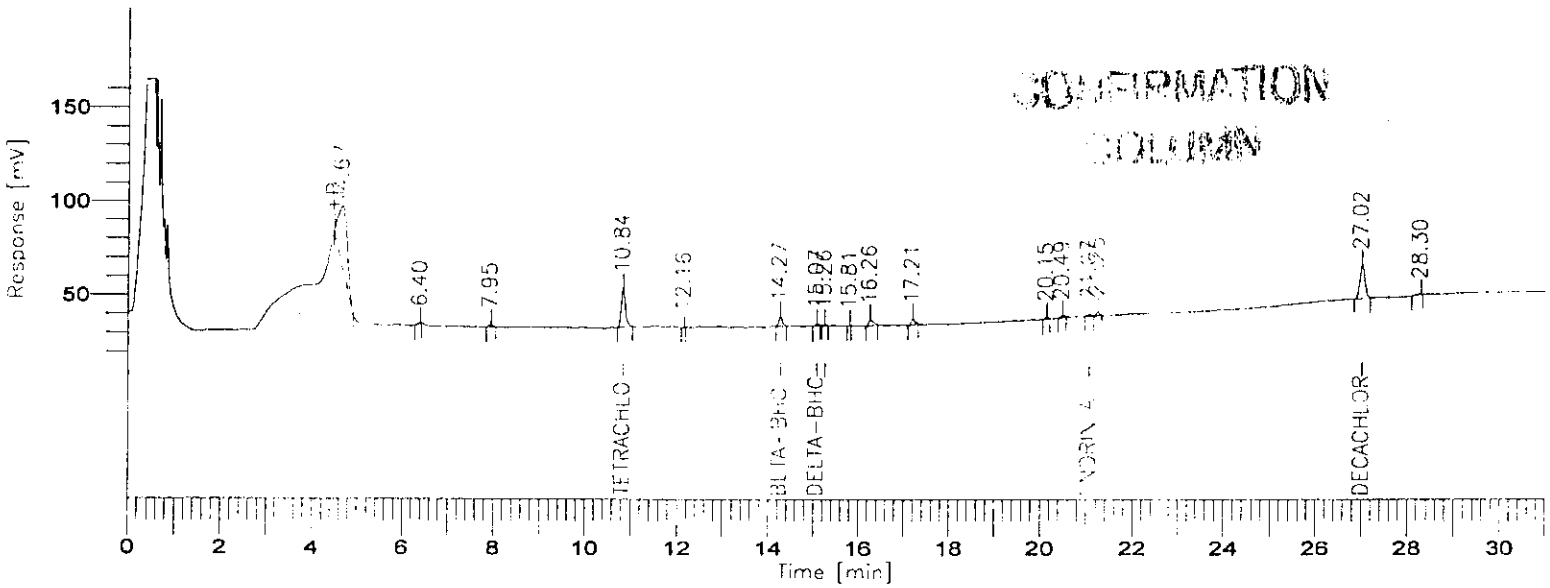
Channel : B A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/11/03 12:10
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RB29068.RAW
Result File : H:\TURBO4\5890-18\RB29068.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RB29068.RST
Proc Method : H:\TURBO4\5890-18\RBPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RBPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	4.67	440313		*B	0.4403	32927.69
2	6.40	2220		B	0.0022	287.49
3	7.95	7932		B	0.0079	1293.09
4	10.84	129184	Tetrachloro-m-xylene	B	0.0118	20474.84
6	14.27	25852	beta-BHC	B	0.0032	4791.03
7	15.07	4959	delta-BHC	B	0.0023	922.53
8	15.25	2652	heptachlor	B	0.0018	597.33
10	16.26	21068		B	0.0211	3026.65
11	17.21	16844		B	0.0168	2861.04
12	20.15	3823		B	0.0038	823.37
13	20.49	5464		B	0.0055	1044.44
14	21.07	4617	Endrin aldehyde	B	-0.0002	718.32
15	21.25	8779		B	0.0088	2018.00
16	27.02	136033	Decachlorobiphenyl	B	0.0113	17826.22
17	28.30	3369		B	0.0034	197.40
		813128			0.5400	89809.45

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Sample Name :
Sample Number: A3936404
Operator :

Time : 10/11/03 08:27
Study : AW30012970

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

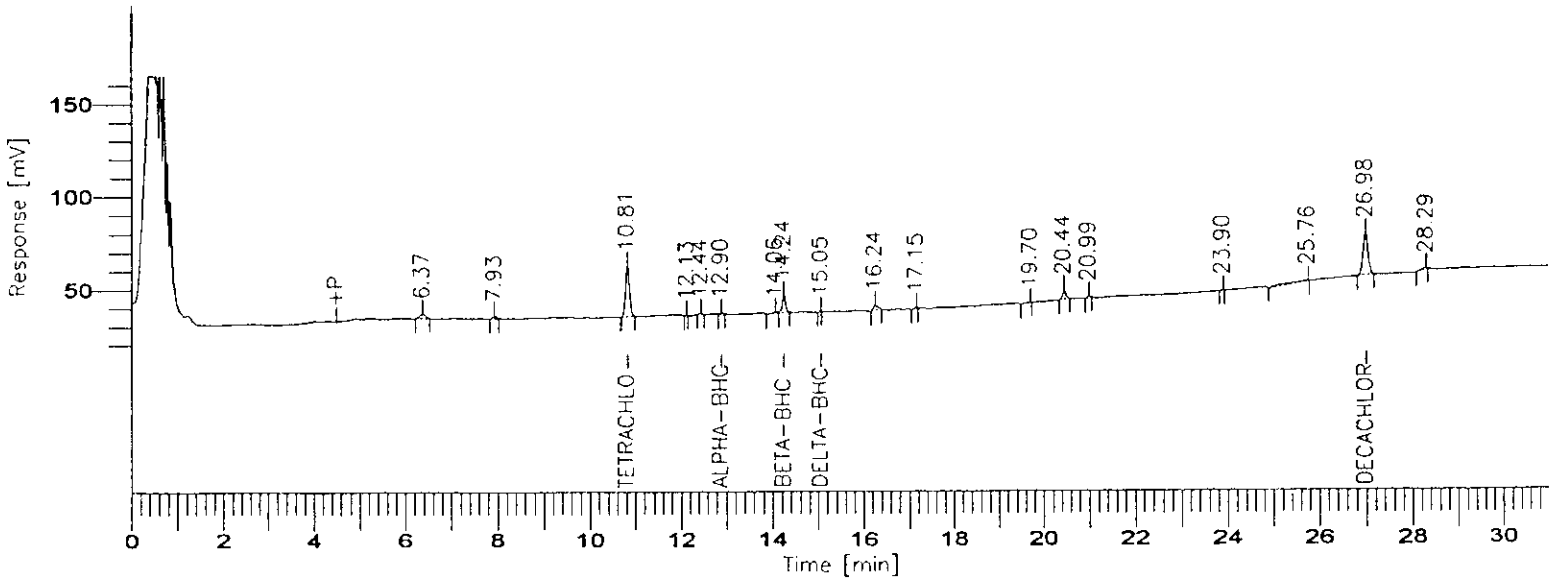
Channel : B A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/10/03 21:08
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RB29044.RAW
Result File : H:\TURBO4\5890-18\RB29044.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RB29044.RST
Proc Method : H:\TURBO4\5890-18\RBPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RBPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	6.37	21978		B	0.0220	2305.36
2	7.93	6844		B	0.0068	1103.80
3	10.81	166460	Tetrachloro-m-xylene	B	0.0155	27593.43
5	12.44	3696		B	0.0037	757.98
6	12.90	3056	~~alpha-BHC~~ LOL	B	0.0017	712.71
7	14.06	8592		B	0.0086	924.23
8	14.23	51684	beta-BHC	V	0.0069	9623.59
10	16.24	18490		B	0.0185	2586.33
11	17.15	2237		B	0.0022	441.29
12	19.70	3671		B	0.0037	195.48
13	20.44	28208		B	0.0282	5115.72
14	20.99	3845		B	0.0038	937.51
16	25.75	25613		B	0.0256	171.35
17	26.98	169439	Decachlorobiphenyl	B	0.0150	22441.00
18	28.29	4049		B	0.0040	275.96
		517862			0.1663	75105.74

0.0163 OCT 11 2003

$\frac{0.0163 - 0.0249}{0.0163} = 52.8\%$

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Software Version: 4.1<2F12>
Sample Name :
Sample Number: A3936404
Operator :

Time : 10/11/03 08:27
Study : AW30012970

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

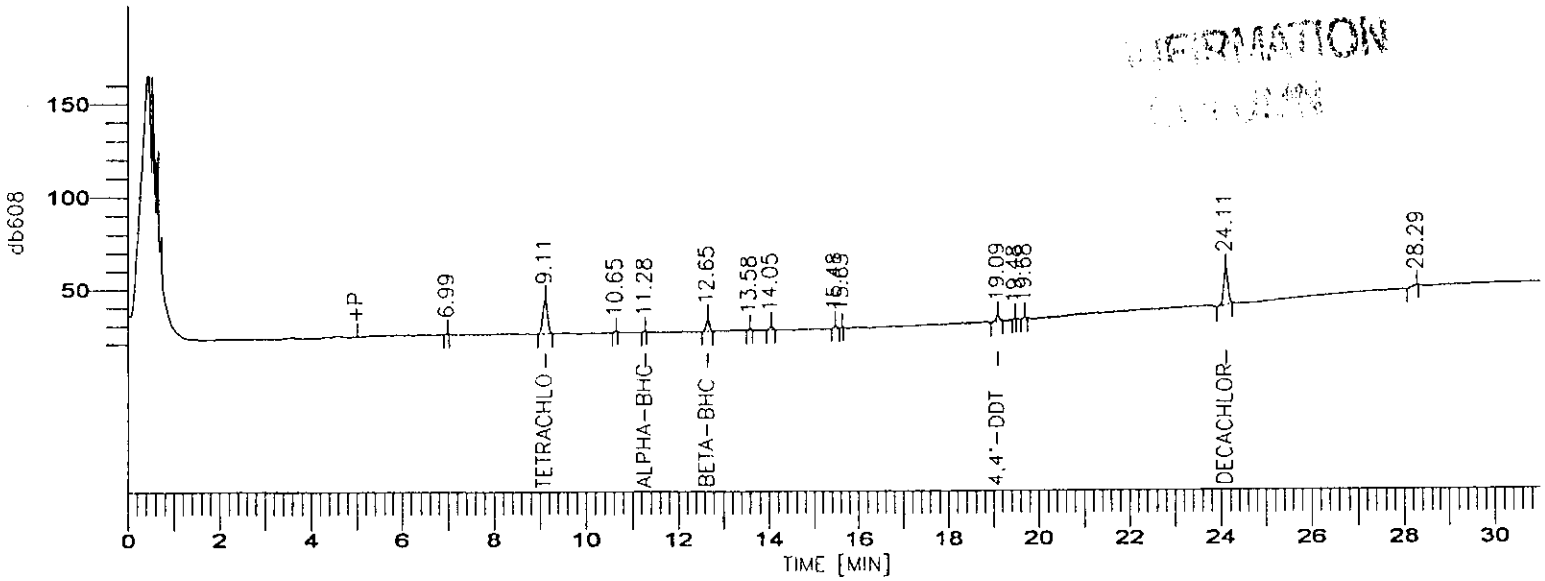
Channel : A A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/10/03 21:08
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RA29044.RAW
Result File : H:\TURBO4\5890-18\RA29044.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RA29044.RST
Proc Method : H:\TURBO4\5890-18\RAPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RAPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	6.99	1329		B	0.0013	248.70
2	9.11	131018	Tetrachloro-m-xylene	B	0.0149	18918.26
3	10.65	1154		B	0.0012	273.36
4	11.28	1133	~~alpha-BHC~~	B	0.0026	237.77
5	12.65	36512	beta-BHC	B	0.0059	6714.15
6	13.58	2777		B	0.0028	621.73
7	14.05	9343		B	0.0093	1754.63
8	15.48	6032		B	0.0060	1314.56
10	19.08	19671	~~4,4'-DDT~~	B	0.0040	3112.32
11	19.48	1052		B	0.0011	234.45
12	19.68	3447		B	0.0034	829.03
13	24.11	136433	Decachlorobiphenyl	B	0.0160	20406.68
14	28.28	4848		B	0.0048	314.08
		354750			0.0734	54979.70

0.0249

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Software Version: 4.1<2F12>
Sample Name :
Sample Number: A3936903
Operator :

Time : 10/10/03 18:28
Study : AW30013051

Instrument : HP5890-9
AutoSampler :
Rack/Vial : 0/0

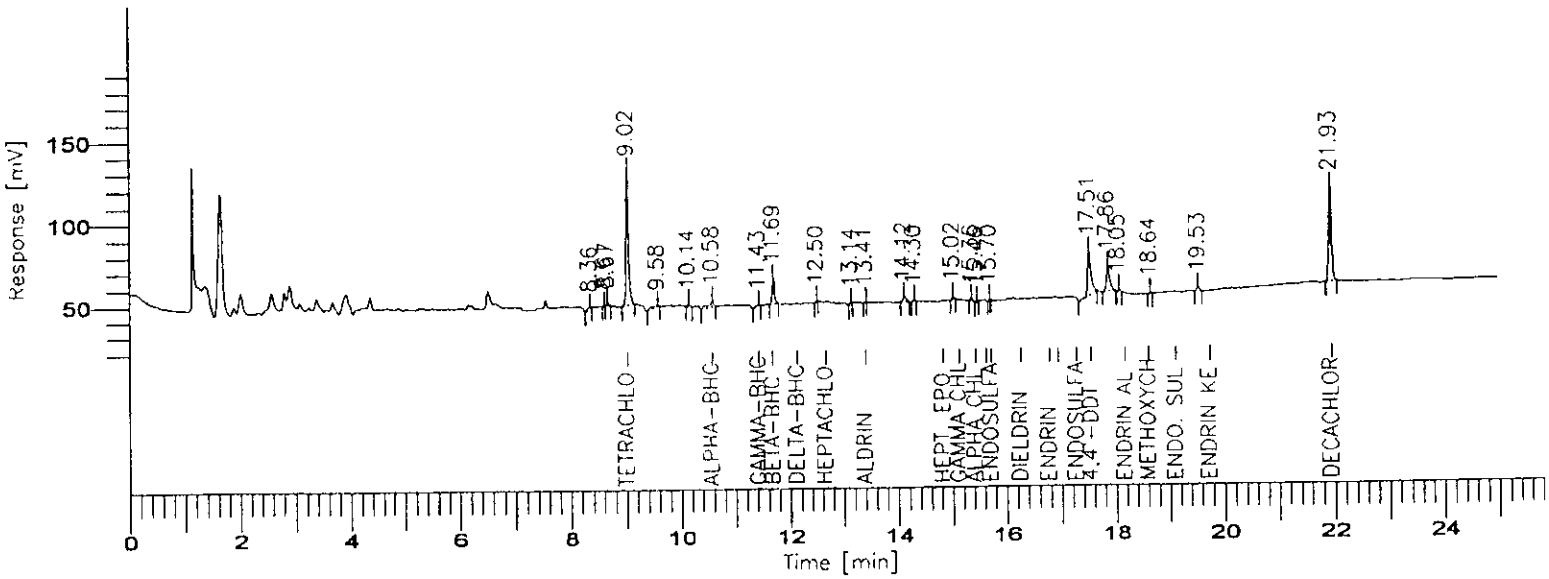
Channel : A A/D mV Range : 1000

Interface Serial # : 9205571204 Data Acquisition Time: 10/10/03 15:10
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-9\9A29049.RAW
Result File : H:\TURBO4\5890-9\9A29049.RST
Inst Method : 9PESTINS from H:\TURBO4\5890-9\9A29049.RST
Proc Method : H:\TURBO4\5890-9\9APRC98.mth
Calib Method : H:\TURBO4\5890-9\9APPO9.mth
Sequence File : H:\TURBO4\5890-9\9D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 5000.000000
Dilution Factor : 1.00



5890-9 Rtx-CLPesticides #143141 Channel A

Peak #	Ret Time [min]	Area [uV/sec]	Component Name	Height [uV]	BL	Concentration ng
1	8.36	7437		932.88	B	0.0074
4	9.02	257889	Tetrachloro-m-xylene	81280.95	B	0.0154
5	9.58	11412		858.98	B	0.0114
6	10.14	6410		1895.04	B	0.0064
7	10.58	24488	alpha-BHC	3817.00	B	0.0003
8	11.43	5628	gamma-BHC	592.59	B	-0.0009
9	11.69	51587	beta-BHC	15684.87	B	0.0029 0.0278
13	14.12	14241		3316.24	B	0.0142
16	15.36	6617		1893.51	B	0.0066
19	17.51	127423	4,4'-DDT	27145.07	B	0.0096
20	17.85	72592		15685.39	B	0.0726
23	19.53	7850		2364.80	B	0.0078
24	21.93	201816	Decachlorobiphenyl	57534.39	B	0.0135
		795390		213001.70		

OCT 13 2003

$\frac{0.0459 - 0.0278}{0.0278} = 65\%$

5890-9 Rtx-CLPesticides Channel A

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Sample Name :
Sample Number: A3936903
Operator :

Time : 10/10/03 18:28
Study : AW30013051

Instrument : HP5890-9
AutoSampler :
Rack/Vial : 0/0

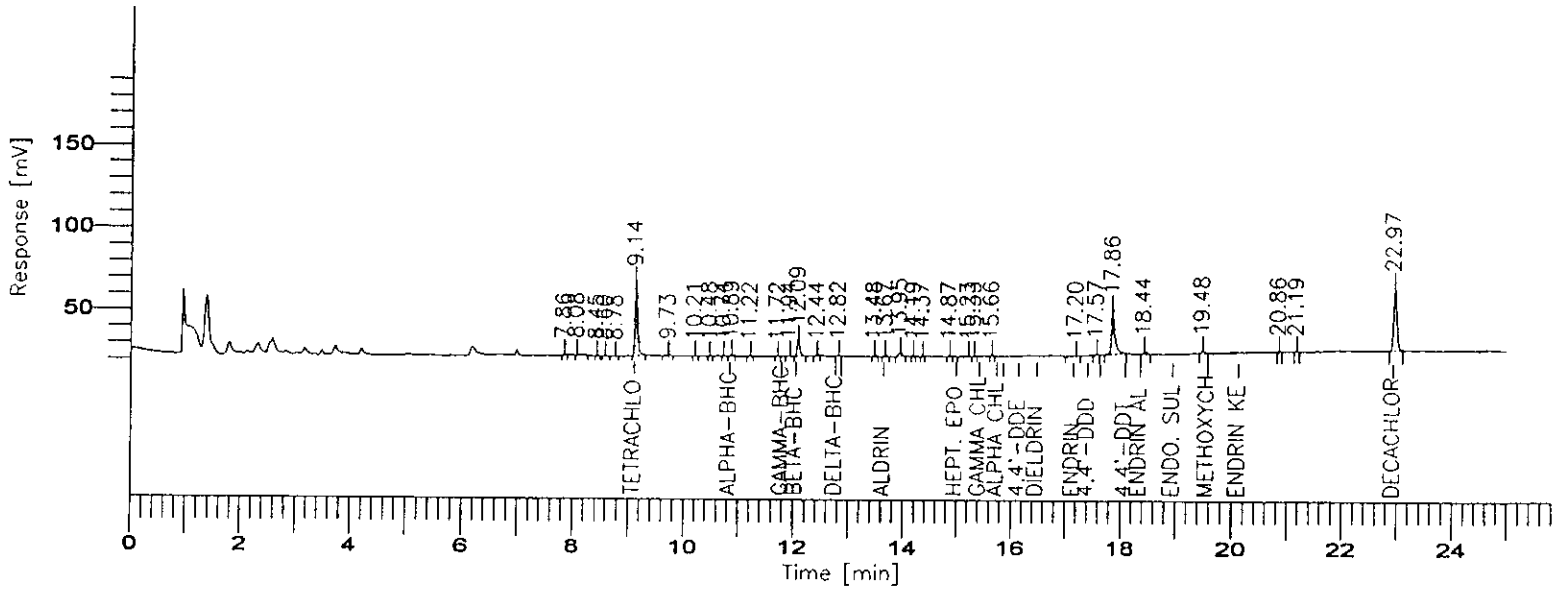
Channel : B A/D mV Range : 1000

Interface Serial # : 9205571204 Data Acquisition Time: 10/10/03 15:10
Delay Time : 0.00 min.
End Time : 25.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-9\9B29049.RAW
Result File : H:\TURBO4\5890-9\9B29049.RST
Inst Method : 9PESTINS from H:\TURBO4\5890-9\9B29049.RST
Proc Method : H:\TURBO4\5890-9\9BPRC98.mth
Calib Method : H:\TURBO4\5890-9\9BPPO9.mth
Sequence File : H:\TURBO4\5890-9\9D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 5000.000000
Dilution Factor : 1.00



5890-9 Rtx-CLPesticides2 #143174 Channel B

Peak #	Ret Time [min]	Area [uV/sec]	Component Name	Height [uV]	BL	Concentration ng	
2	8.08	5282		952.49	B	0.0053	
6	9.14	140693	Tetrachloro-m-xylene	45709.73	B	0.0156	
7	9.73	5681		873.81	B	0.0057	
15	12.09	33915	~~Beta-BHC~~	9683.63	V	0.0048	0.0459
20	13.95	12384		2532.92	B	0.0124	
27	17.20	6008	~~Endrin~~	316.88	B	0.0024	
29	17.86	120405		27074.94	B	0.1204	
30	18.44	7140		1748.06	B	0.0071	
31	19.48	6229		1757.00	B	0.0062	
34	22.97	147753	Decachlorobiphenyl	38901.14	B	0.0141	
		485490		129550.60			

2003

5890-9 Rtx-CLPesticides2 Channel B

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW03-016B-P4

Lab Name: STL Buffalo

Case No.: SDG No.: 092903

Lab Sample ID : A3936904 Dates(s) Analyzed: 10/10/03 10/10/03

Instrument ID : HP5890-9

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	TO	CONC.	%D
beta-BHC	1	11.69	11.63	11.73	0.030	
	2	12.09	12.03	12.13	0.046	53.3

FORM X PEST

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Software Version: 4.1<2F12>
Sample Name :
Sample Number: A3963101
Operator :

Time : 10/13/03 14:18
Study : AW30013474

Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

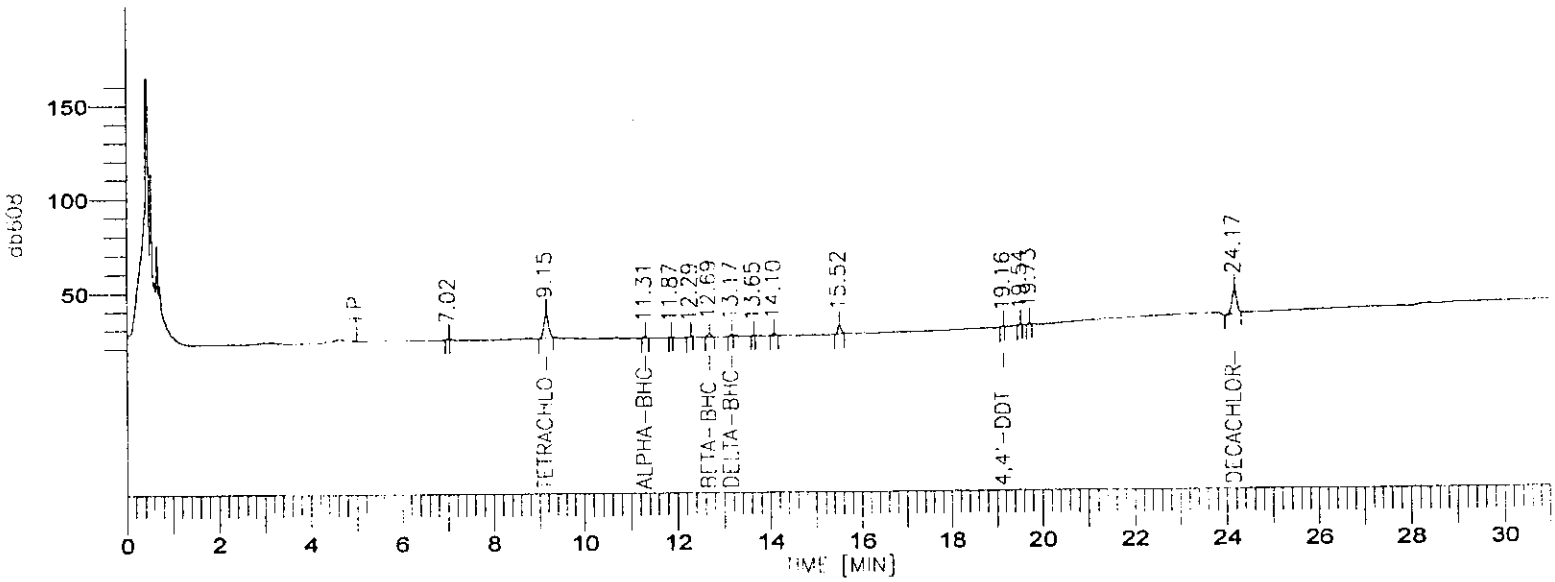
Channel : A A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/11/03 21:33
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RA29083.RAW
Result File : H:\TURBO4\5890-18\RA29083.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RA29083.RST
Proc Method : H:\TURBO4\5890-18\RAPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RAPPO41.mth
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul
Sample Amount : 1.0000

Area Reject : 1000.000000
Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
2	9.15	96295	Tetrachloro-m-xylene	B	0.0108	13468.29
3	11.31	3627	~~alpha-BHC~~	B	0.0028	742.00
5	12.29	1188		B	0.0012	229.19
6	12.69	10259	~~beta-BHC~~	B	0.0010	1942.07
7	13.17	1886	~~delta-BHC~~	B	0.0027	442.03
9	14.10	5102		B	0.0051	1011.05
10	15.52	24006		B	0.0240	4948.61
11	19.15	1076	~~4,4'-DDT~~	B	0.0015	231.09
12	19.54	1094		B	0.0011	253.69
13	19.73	2945		B	0.0029	756.09
14	24.17	90701	Decachlorobiphenyl	B	0.0096	12884.83
		238178			0.0627	36908.95

7MDL 0.00159 ng.

MD 10/13/03

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Software Version: 4.1<2F12>
Sample Name :
Sample Number: A3963101
Operator :

Time : 10/13/03 13:41
Study : AW30013474

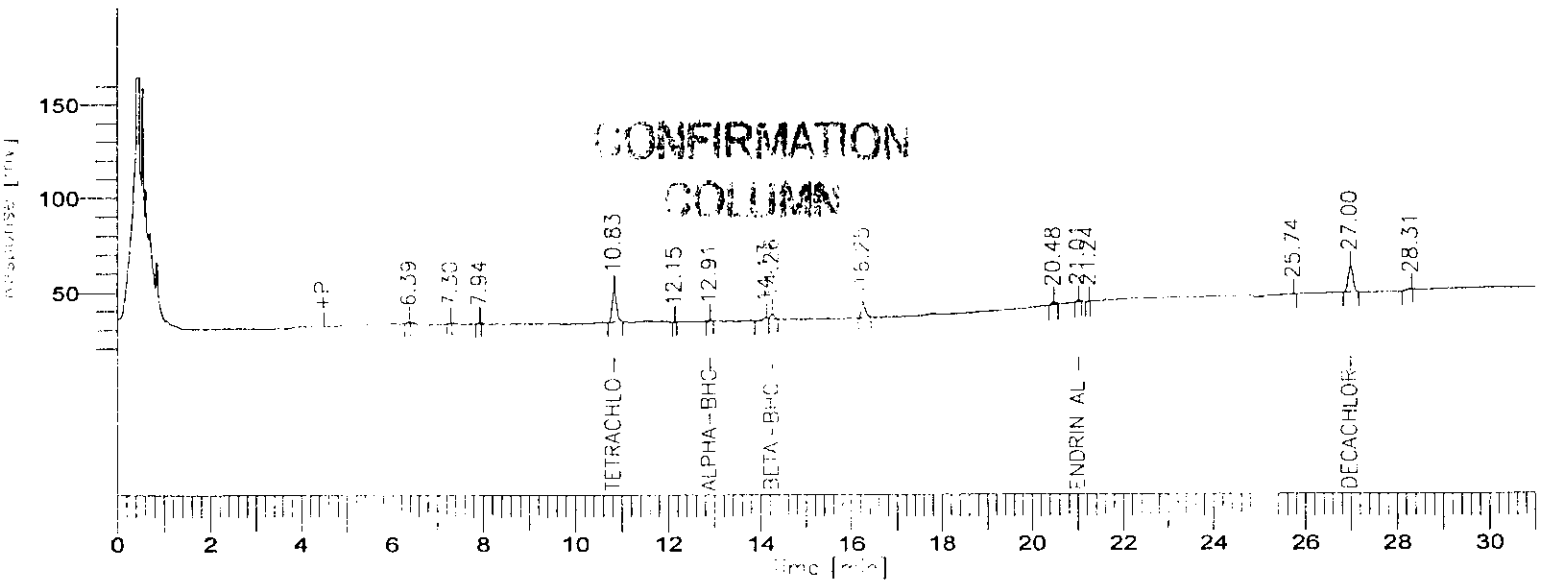
Instrument : HP5890-18
AutoSampler :
Rack/Vial : 0/0

Channel : B A/D mV Range : 1000

Interface Serial # : 2248380007 Data Acquisition Time: 10/11/03 21:33
Delay Time : 0.00 min.
End Time : 31.00 min.
Sampling Rate : 5.0000 pts/sec

Raw Data File : H:\TURBO4\5890-18\RB29083.RAW
Result File : H:\TURBO4\5890-18\RB29083.RST
Inst Method : RDPPINS from H:\TURBO4\5890-18\RB29083.RST
Proc Method : H:\TURBO4\5890-18\RBPPPRC.mth
Calib Method : H:\TURBO4\5890-18\RBPPO4.mth
Sequence File : H:\TURBO4\5890-18\18D29.SEQ

Sample Volume : 1.0000 ul Area Reject : 1000.000000
Sample Amount : 1.0000 Dilution Factor : 1.00



Peak #	Time [min]	Area [uV-sec]	Component Name	BL	NG CONCENTRATION	Height [µV]
1	6.39	1555		B	0.0016	242.60
3	7.94	1312		B	0.0013	292.04
4	10.83	114589	Tetrachloro-m-xylene	B	0.0103	17631.23
6	12.91	4298	alpha-BHC	B	0.0018	920.18
7	14.13	10862		B	0.0109	1216.54
8	14.26	17677	beta-BHC	V	0.0021	2911.42
9	16.25	47974		B	0.0480	8079.12
10	20.48	7687		B	0.0077	1430.95
11	21.01	4261	Endrin aldehyde	B	-0.0002	926.05
13	25.74	22573		B	0.0266	122.35
14	26.99	103285	Decachlorobiphenyl	B	0.0077	13710.96
15	28.31	3055		B	0.0031	185.62
		339128			0.1167	47669.07

> MLA 0.00159 mg

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10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-14B-P6

Lab Name: STL Buffalo

Case No.: SDG No.: 100703

Lab Sample ID : A3963101 Dates(s) Analyzed: 10/11/03 10/11/03

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
alpha-BHC	1	11.31	11.26	11.36	0.027	
	2	12.91	12.86	12.96	0.017	37.0

FORM X PEST

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URS Corporation

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 100203

Initial Calibration Source: VHG/INO.VENT.

Continuing Calibration Source: VHG/INOR.VENT.

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium				25000.0	27066.27	108.3	26239.86	105.0	P
Potassium				25000.0	25503.90	102.0	25672.27	102.7	P
Sodium				25000.0	28732.23	114.9	25777.04	103.1	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

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URS Corporation

ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100203

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/11/03 End Date: 10/11/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	07:21																									
ZZZZZZ	1.00	07:26																									
ZZZZZZ	1.00	07:31																									
ZZZZZZ	1.00	07:35																									
CCV	1.00	07:41								X										X			X				
CCB	1.00	07:46								X										X			X				
ZZZZZZ	5.00	07:51																									
ZZZZZZ	1.00	07:55																									
ZZZZZZ	1.00	08:00																									
ZZZZZZ	1.00	08:05																									
ZZZZZZ	1.00	08:09																									
ZZZZZZ	1.00	08:14																									
ZZZZZZ	1.00	08:19																									
ZZZZZZ	5.00	08:23																									
ZZZZZZ	1.00	08:28																									
CCV	1.00	08:34								X										X			X				
CCB	1.00	08:39								X										X			X				
ZZZZZZ	1.00	08:43																									
GW03-001A-P1	5.00	08:48																		X			X				
GW03-017A-P1	5.00	08:53								X										X			X				
ZZZZZZ	5.00	08:58																									
ZZZZZZ	500.00	09:02																									
ZZZZZZ	50.00	09:07																									
ZZZZZZ	1.00	09:12																									
ZZZZZZ	1.00	09:16																									
ZZZZZZ	1.00	09:21																									
ZZZZZZ	1.00	09:26																									
CCV	1.00	09:32								X										X			X				
CCB	1.00	09:36								X										X			X				
ZZZZZZ	5.00	09:41																									
ZZZZZZ	1.00	09:46																									
ZZZZZZ	1.00	09:50																									
ZZZZZZ	1.00	09:55																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 092403

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	17.73	88.6	16.93	84.6
Cadmium				10.0	10.17	101.7	9.88	98.8
Calcium				5000.0	4931.21	98.6	4973.60	99.5
Lead				6.0	4.14	69.0	4.65	77.5
Magnesium				5000.0	4917.86	98.4	4792.35	95.8
Potassium				5000.0	4950.99	99.0	4912.77	98.3
Sodium				5000.0	4817.68	96.4	4723.44	94.5

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092403

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/4/2003 End Date: 10/5/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	20:33				X			X	X					X	X				X			X				
STD 1	1.00	20:37				X			X	X					X	X				X			X				
STD 2	1.00	20:42				X			X	X					X	X				X			X				
STD 3	1.00	20:47				X			X	X					X	X				X			X				
STD 3 VER	1.00	20:51				X			X	X					X	X				X			X				
ICV	1.00	20:56				X			X	X					X	X				X			X				
ICB	1.00	21:01				X			X	X					X	X				X			X				
→ CRI	1.00	21:05				X			X	X					X	X				X			X				
ICSA	1.00	21:10				X			X	X					X	X				X			X				
ICSAB	1.00	21:15				X			X	X					X	X				X			X				
CCV	1.00	21:19				X			X	X					X	X				X			X				
CCB	1.00	21:24				X			X	X					X	X				X			X				
Method Blank	1.00	21:29				X			X	X					X	X				X			X				
LFB	1.00	21:33				X			X	X					X	X				X			X				
ZZZZZZ	1.00	21:38																									
ZZZZZZ	1.00	21:43																									
ZZZZZZ	1.00	21:47																									
ZZZZZZ	1.00	21:52																									
ZZZZZZ	1.00	21:57																									
ZZZZZZ	1.00	22:01																									
ZZZZZZ	1.00	22:06																									
ZZZZZZ	1.00	22:11																									
CCV	1.00	22:17				X			X	X					X	X				X			X				
CCB	1.00	22:21				X			X	X					X	X				X			X				
ZZZZZZ	1.00	22:26																									
ZZZZZZ	1.00	22:31																									
ZZZZZZ	1.00	22:35																									
ZZZZZZ	1.00	22:40																									
ZZZZZZ	1.00	22:45																									
ZZZZZZ	1.00	22:49																									
GW03-017A-P2 X	1.00	22:54				X			X						X	X											
GW03-017A-P2L	5.00	22:59				X			X						X	X											
GW03-017A-P2A	1.00	23:03				X			X						X	X											

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092403

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/4/2003 End Date: 10/5/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-017A-P2	1.00	23:08				X			X						X	X											
CCV	1.00	23:14				X			X	X					X	X				X			X				
CCB	1.00	23:18				X			X	X					X	X				X			X				
GW03-017A-P2	1.00	23:23				X			X						X	X											
GW03-017C-P8	1.00	23:28				X			X	X					X	X				X			X				
ZZZZZZ	1.00	23:33																									
ZZZZZZ	1.00	23:37																									
ZZZZZZ	1.00	23:42																									
ZZZZZZ	1.00	23:47																									
ZZZZZZ	1.00	23:51																									
ZZZZZZ	1.00	23:56																									
ZZZZZZ	1.00	00:01																									
ZZZZZZ	1.00	00:05																									
CCV	1.00	00:11				X			X	X					X	X				X			X				
CCB	1.00	00:16				X			X	X					X	X				X			X				
ZZZZZZ	1.00	00:21																									
ZZZZZZ	5.00	00:25																									
ZZZZZZ	1.00	00:30																									
ZZZZZZ	1.00	00:35																									
ZZZZZZ	1.00	00:39																									
ZZZZZZ	1.00	00:44																									
ZZZZZZ	1.00	00:49																									
ZZZZZZ	1.00	00:53																									
ZZZZZZ	1.00	00:58																									
ZZZZZZ	1.00	01:03																									
CCV	1.00	01:09				X			X	X					X	X				X			X				
CCB	1.00	01:13				X			X	X					X	X				X			X				
ZZZZZZ	1.00	01:18																									
ZZZZZZ	1.00	01:23																									
ZZZZZZ	1.00	01:27																									
ZZZZZZ	1.00	01:32																									
ZZZZZZ	1.00	01:37																									
ZZZZZZ	1.00	01:41																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092403

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/4/2003 End Date: 10/5/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	01:46																									
ZZZZZZ	1.00	01:51																									
ZZZZZZ	1.00	01:55																									
ZZZZZZ	1.00	02:00																									
CCV	1.00	02:06				X			X	X					X	X				X			X				
CCB	1.00	02:11				X			X	X					X	X				X			X				
ZZZZZZ	1.00	02:15																									
CRI	1.00	02:21				X			X	X					X	X				X			X				
ICSA	1.00	02:26				X			X	X					X	X				X			X				
ICSAB	1.00	02:30				X			X	X					X	X				X			X				
CCV	1.00	02:35				X			X	X					X	X				X			X				
CCB	1.00	02:40				X			X	X					X	X				X			X				

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 092403

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.15	75.0					

Comments:

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U R S Corporation

ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092403

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/15/2003 End Date: 10/15/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	14:14																X									
ICB	1.00	14:15																X									
CRA	1.00	14:17																X									
ZZZZZZ	1.00	14:18																									
ZZZZZZ	1.00	14:19																									
ZZZZZZ	1.00	14:21																									
ZZZZZZ	1.00	14:22																									
ZZZZZZ	1.00	14:24																									
ZZZZZZ	1.00	14:25																									
ZZZZZZ	1.00	14:26																									
ZZZZZZ	1.00	14:28																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:30																									
CCV	1.00	14:31																X									
CCB	1.00	14:32																X									
ZZZZZZ	1.00	14:34																									
ZZZZZZ	1.00	14:35																									
ZZZZZZ	1.00	14:36																									
ZZZZZZ	1.00	14:37																									
ZZZZZZ	1.00	14:38																									
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:41																									
ZZZZZZ	1.00	14:43																									
ZZZZZZ	1.00	14:44																									
ZZZZZZ	1.00	14:45																									
CCV	1.00	14:46																X									
CCB	1.00	14:48																X									
ZZZZZZ	1.00	14:49																									
ZZZZZZ	1.00	14:50																									
ZZZZZZ	1.00	14:51																									
ZZZZZZ	1.00	14:52																									
ZZZZZZ	1.00	14:54																									
ZZZZZZ	1.00	14:55																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092403

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/15/2003 End Date: 10/15/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	14:56																									
ZZZZZZ	1.00	14:58																									
ZZZZZZ	1.00	14:59																									
ZZZZZZ	1.00	15:00																									
CCV	1.00	15:02																X									
CCB	1.00	15:03																X									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:05																									
ZZZZZZ	1.00	15:06																									
ZZZZZZ	1.00	15:08																									
ZZZZZZ	1.00	15:09																									
ZZZZZZ	1.00	15:10																									
GW03-017C-P7	1.00	15:11																X									
GW03-017C-P7 MD	1.00	15:14																X									
GW03-017C-P7 MS	1.00	15:15																X									
LCS	1.00	15:16																X									
CCV	1.00	15:17																X									
CCB	1.00	15:19																X									
GW03-017B-P4	1.00	15:20																X									
ZZZZZZ	1.00	15:22																									
LCS	1.00	15:23																X									
ZZZZZZ	1.00	15:24																									
Method Blank	1.00	15:26																X									
Method Blank	1.00	15:27																X									
CCV	1.00	15:28																X									
CCB	1.00	15:29																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100703

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.15	75.0					

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/10/2003 End Date: 10/10/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	12:17																X									
ICB	1.00	12:19																X									
CRA	1.00	12:20																X									
ZZZZZZ	1.00	12:21																									
ZZZZZZ	1.00	12:22																									
ZZZZZZ	1.00	12:23																									
ZZZZZZ	1.00	12:24																									
ZZZZZZ	1.00	12:26																									
ZZZZZZ	1.00	12:28																									
ZZZZZZ	1.00	12:30																									
ZZZZZZ	1.00	12:31																									
ZZZZZZ	1.00	12:32																									
ZZZZZZ	1.00	12:34																									
CCV	1.00	12:35																X									
CCB	1.00	12:36																X									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:40																									
ZZZZZZ	1.00	12:41																									
ZZZZZZ	1.00	12:42																									
ZZZZZZ	1.00	12:43																									
ZZZZZZ	1.00	12:44																									
ZZZZZZ	1.00	12:45																									
ZZZZZZ	1.00	12:47																									
ZZZZZZ	1.00	12:48																									
CCV	1.00	12:49																X									
CCB	1.00	12:51																X									
ZZZZZZ	1.00	12:53																									
ZZZZZZ	1.00	12:54																									
ZZZZZZ	1.00	12:55																									
ZZZZZZ	1.00	12:56																									
ZZZZZZ	1.00	12:58																									
ZZZZZZ	1.00	12:59																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/10/2003 End Date: 10/10/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:01																									
ZZZZZZ	1.00	13:02																									
ZZZZZZ	1.00	13:03																									
ZZZZZZ	1.00	13:04																									
CCV	1.00	13:05																X									
CCB	1.00	13:07																X									
ZZZZZZ	1.00	13:08																									
GW03-014A-P3	1.00	13:10																X									
ZZZZZZ	1.00	13:11																									
ZZZZZZ	1.00	13:13																									
ZZZZZZ	1.00	13:14																									
ZZZZZZ	1.00	13:16																									
ZZZZZZ	1.00	13:17																									
ZZZZZZ	1.00	13:18																									
ZZZZZZ	1.00	13:19																									
LCS	1.00	13:21																X									
CCV	1.00	13:22																X									
CCB	1.00	13:24																X									
ZZZZZZ	1.00	13:25																									
ZZZZZZ	1.00	13:27																									
ZZZZZZ	1.00	13:28																									
ZZZZZZ	1.00	13:29																									
ZZZZZZ	1.00	13:30																									
ZZZZZZ	1.00	13:32																									
ZZZZZZ	1.00	13:33																									
ZZZZZZ	1.00	13:34																									
ZZZZZZ	1.00	13:35																									
ZZZZZZ	1.00	13:37																									
CCV	1.00	13:38																X									
CCB	1.00	13:39																X									
ZZZZZZ	1.00	13:40																									
ZZZZZZ	1.00	13:41																									
ZZZZZZ	1.00	13:42																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100703

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/10/2003 End Date: 10/10/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:44																									
ZZZZZZ	1.00	13:45																									
ZZZZZZ	1.00	13:46																									
ZZZZZZ	1.00	13:47																									
ZZZZZZ	1.00	13:48																									
ZZZZZZ	1.00	13:49																									
ZZZZZZ	1.00	13:51																									
CCV	1.00	13:52																X									
CCB	1.00	13:53																X									
ZZZZZZ	1.00	13:54																									
ZZZZZZ	1.00	13:55																									
ZZZZZZ	1.00	13:57																									
ZZZZZZ	1.00	13:58																									
ZZZZZZ	1.00	13:59																									
ZZZZZZ	1.00	14:00																									
ZZZZZZ	1.00	14:01																									
ZZZZZZ	1.00	14:02																									
ZZZZZZ	1.00	14:04																									
Method Blank	1.00	14:05																X									
CCV	1.00	14:06																X									
CCB	1.00	14:07																X									
ZZZZZZ	1.00	14:08																									
ZZZZZZ	1.00	14:10																									
ZZZZZZ	1.00	14:11																									
ZZZZZZ	1.00	14:13																									
ZZZZZZ	1.00	14:15																									
ZZZZZZ	1.00	14:17																									
CCV	1.00	14:19																X									
CCB	1.00	14:20																X									

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-2B-

CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100803

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.15	75.0					

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/13/2003 End Date: 10/14/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	23:57																									
ZZZZZZ	1.00	00:02																									
ZZZZZZ	1.00	00:06																									
ZZZZZZ	1.00	00:11																									
CCV	1.00	00:17								X													X				
CCB	1.00	00:22								X													X				
ZZZZZZ	1.00	00:27																									
ZZZZZZ	1.00	00:32																									
ZZZZZZ	1.00	00:37																									
ZZZZZZ	1.00	00:42																									
ZZZZZZ	1.00	00:47																									
ZZZZZZ	1.00	00:52																									
ZZZZZZ	1.00	00:56																									
ZZZZZZ	1.00	01:01																									
ZZZZZZ	1.00	01:06																									
ZZZZZZ	1.00	01:11																									
CCV	1.00	01:17								X													X				
CCB	1.00	01:22								X													X				
ZZZZZZ	1.00	01:27																									
ZZZZZZ	1.00	01:32																									
ZZZZZZ	1.00	01:37																									
ZZZZZZ	1.00	01:42																									
ZZZZZZ	1.00	01:46																									
CRI	1.00	01:53								X													X				
ICSA	1.00	01:58								X													X				
ICSAB	1.00	02:02								X													X				
CCV	1.00	02:07								X													X				
CCB	1.00	02:12								X													X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	12:26																X									
ICB	1.00	12:27																X									
CRA	1.00	12:28																X									
ZZZZZZ	1.00	12:29																									
ZZZZZZ	1.00	12:30																									
ZZZZZZ	1.00	12:32																									
ZZZZZZ	1.00	12:33																									
ZZZZZZ	1.00	12:34																									
ZZZZZZ	1.00	12:35																									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:38																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:40																									
CCV	1.00	12:41																X									
CCB	1.00	12:43																X									
ZZZZZZ	1.00	12:45																									
ZZZZZZ	1.00	12:46																									
ZZZZZZ	1.00	12:47																									
ZZZZZZ	1.00	12:48																									
GW03-010B-P5	1.00	12:49																X									
GW03-010B-P5\MS	1.00	12:51																X									
GW03-010B-P5\SD	1.00	12:52																X									
GW03-005A-P2	1.00	12:54																X									
GW03-013B-P5	1.00	12:55																X									
LCS	1.00	12:57																X									
CCV	1.00	12:58																X									
CCB	1.00	12:59																X									
GW03-013B-P4	1.00	13:01																X									
GW03-013B-P4\MS	1.00	13:02																X									
GW03-013B-P4\SD	1.00	13:03																X									
GW03-013A-P1	1.00	13:04																X									
GW03-013C-P7	1.00	13:06																X									
GW03-008A-P2	1.00	13:07																X									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-008A-P3	1.00	13:08																X									
ZZZZZZ	1.00	13:10																									
ZZZZZZ	1.00	13:11																									
ZZZZZZ	1.00	13:12																									
CCV	1.00	13:14																X									
CCB	1.00	13:15																X									
ZZZZZZ	1.00	13:16																									
ZZZZZZ	1.00	13:17																									
ZZZZZZ	1.00	13:18																									
ZZZZZZ	1.00	13:20																									
ZZZZZZ	1.00	13:21																									
ZZZZZZ	1.00	13:22																									
ZZZZZZ	1.00	13:24																									
ZZZZZZ	1.00	13:25																									
ZZZZZZ	1.00	13:27																									
LCS	1.00	13:28																X									
CCV	1.00	13:29																X									
CCB	1.00	13:31																X									
ZZZZZZ	1.00	13:32																									
ZZZZZZ	1.00	13:33																									
ZZZZZZ	1.00	13:35																									
ZZZZZZ	1.00	13:36																									
ZZZZZZ	1.00	13:38																									
ZZZZZZ	1.00	13:39																									
ZZZZZZ	1.00	13:41																									
ZZZZZZ	1.00	13:42																									
ZZZZZZ	1.00	13:43																									
ZZZZZZ	1.00	13:45																									
CCV	1.00	13:46																X									
CCB	1.00	13:48																X									
ZZZZZZ	1.00	13:49																									
ZZZZZZ	1.00	13:51																									
ZZZZZZ	1.00	13:52																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:54																									
ZZZZZZ	1.00	13:55																									
ZZZZZZ	1.00	13:57																									
ZZZZZZ	1.00	13:58																									
ZZZZZZ	1.00	14:00																									
ZZZZZZ	1.00	14:01																									
ZZZZZZ	1.00	14:03																									
CCV	1.00	14:04																X									
CCB	1.00	14:05																X									
ZZZZZZ	1.00	14:07																									
ZZZZZZ	1.00	14:08																									
ZZZZZZ	1.00	14:09																									
ZZZZZZ	1.00	14:11																									
ZZZZZZ	1.00	14:12																									
ZZZZZZ	1.00	14:13																									
ZZZZZZ	1.00	14:14																									
ZZZZZZ	1.00	14:16																									
ZZZZZZ	1.00	14:17																									
ZZZZZZ	1.00	14:18																									
CCV	1.00	14:19																X									
CCB	1.00	14:21																X									
ZZZZZZ	1.00	14:22																									
ZZZZZZ	1.00	14:23																									
ZZZZZZ	1.00	14:25																									
ZZZZZZ	1.00	14:27																									
ZZZZZZ	1.00	14:28																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:31																									
ZZZZZZ	1.00	14:32																									
ZZZZZZ	1.00	14:33																									
ZZZZZZ	1.00	14:35																									
CCV	1.00	14:36																X									
CCB	1.00	14:37																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100803

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:40																									
ZZZZZZ	1.00	14:41																									
ZZZZZZ	1.00	14:43																									
ZZZZZZ	1.00	14:44																									
ZZZZZZ	1.00	14:45																									
ZZZZZZ	1.00	14:46																									
ZZZZZZ	1.00	14:48																									
ZZZZZZ	1.00	14:58																									
ZZZZZZ	1.00	14:59																									
CCV	1.00	15:01																X									
CCB	1.00	15:02																X									
ZZZZZZ	1.00	15:03																									
ZZZZZZ	1.00	15:05																									
ZZZZZZ	1.00	15:06																									
ZZZZZZ	1.00	15:07																									
ZZZZZZ	1.00	15:08																									
ZZZZZZ	1.00	15:10																									
Method Blank	1.00	15:11																X									
Method Blank	1.00	15:12																X									
ZZZZZZ	1.00	15:13																									
ZZZZZZ	1.00	15:14																									
CCV	1.00	15:16																X									
CCB	1.00	15:17																X									
ZZZZZZ	1.00	15:18																									
ZZZZZZ	1.00	15:25																									
CCV	1.00	15:27																X									
CCB	1.00	15:28																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100903

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.15	75.0					

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	12:26																X									
ICB	1.00	12:27																X									
CRA	1.00	12:28																X									
ZZZZZZ	1.00	12:29																									
ZZZZZZ	1.00	12:30																									
ZZZZZZ	1.00	12:32																									
ZZZZZZ	1.00	12:33																									
ZZZZZZ	1.00	12:34																									
ZZZZZZ	1.00	12:35																									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:38																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:40																									
CCV	1.00	12:41																X									
CCB	1.00	12:43																X									
ZZZZZZ	1.00	12:45																									
ZZZZZZ	1.00	12:46																									
ZZZZZZ	1.00	12:47																									
ZZZZZZ	1.00	12:48																									
ZZZZZZ	1.00	12:49																									
ZZZZZZ	1.00	12:51																									
ZZZZZZ	1.00	12:52																									
ZZZZZZ	1.00	12:54																									
ZZZZZZ	1.00	12:55																									
ZZZZZZ	1.00	12:57																									
CCV	1.00	12:58																X									
CCB	1.00	12:59																X									
ZZZZZZ	1.00	13:01																									
ZZZZZZ	1.00	13:02																									
ZZZZZZ	1.00	13:03																									
ZZZZZZ	1.00	13:04																									
ZZZZZZ	1.00	13:06																									
ZZZZZZ	1.00	13:07																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:08																									
ZZZZZZ	1.00	13:10																									
ZZZZZZ	1.00	13:11																									
ZZZZZZ	1.00	13:12																									
CCV	1.00	13:14																X									
CCB	1.00	13:15																X									
ZZZZZZ	1.00	13:16																									
ZZZZZZ	1.00	13:17																									
ZZZZZZ	1.00	13:18																									
ZZZZZZ	1.00	13:20																									
ZZZZZZ	1.00	13:21																									
ZZZZZZ	1.00	13:22																									
ZZZZZZ	1.00	13:24																									
ZZZZZZ	1.00	13:25																									
ZZZZZZ	1.00	13:27																									
ZZZZZZ	1.00	13:28																									
CCV	1.00	13:29																X									
CCB	1.00	13:31																X									
ZZZZZZ	1.00	13:32																									
GW03-008B-P6	1.00	13:33																X									
GW03-011A-P1	1.00	13:35																X									
GW03-010B-P6	1.00	13:36																X									
GW03-012B-P5	1.00	13:38																X									
ZZZZZZ	1.00	13:39																									
ZZZZZZ	1.00	13:41																									
ZZZZZZ	1.00	13:42																									
ZZZZZZ	1.00	13:43																									
ZZZZZZ	1.00	13:45																									
CCV	1.00	13:46																X									
CCB	1.00	13:48																X									
ZZZZZZ	1.00	13:49																									
ZZZZZZ	1.00	13:51																									
ZZZZZZ	1.00	13:52																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100903

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:54																									
ZZZZZZ	1.00	13:55																									
ZZZZZZ	1.00	13:57																									
ZZZZZZ	1.00	13:58																									
ZZZZZZ	1.00	14:00																									
ZZZZZZ	1.00	14:01																									
LCS	1.00	14:03																X									
CCV	1.00	14:04																X									
CCB	1.00	14:05																X									
ZZZZZZ	1.00	14:07																									
ZZZZZZ	1.00	14:08																									
ZZZZZZ	1.00	14:09																									
ZZZZZZ	1.00	14:11																									
ZZZZZZ	1.00	14:12																									
ZZZZZZ	1.00	14:13																									
ZZZZZZ	1.00	14:14																									
ZZZZZZ	1.00	14:16																									
ZZZZZZ	1.00	14:17																									
ZZZZZZ	1.00	14:18																									
CCV	1.00	14:19																X									
CCB	1.00	14:21																X									
ZZZZZZ	1.00	14:22																									
ZZZZZZ	1.00	14:23																									
ZZZZZZ	1.00	14:25																									
ZZZZZZ	1.00	14:27																									
ZZZZZZ	1.00	14:28																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:31																									
ZZZZZZ	1.00	14:32																									
ZZZZZZ	1.00	14:33																									
ZZZZZZ	1.00	14:35																									
CCV	1.00	14:36																X									
CCB	1.00	14:37																X									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/13/2003 End Date: 10/13/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:40																									
ZZZZZZ	1.00	14:41																									
ZZZZZZ	1.00	14:43																									
ZZZZZZ	1.00	14:44																									
ZZZZZZ	1.00	14:45																									
ZZZZZZ	1.00	14:46																									
ZZZZZZ	1.00	14:48																									
ZZZZZZ	1.00	14:58																									
ZZZZZZ	1.00	14:59																									
CCV	1.00	15:01																X									
CCB	1.00	15:02																X									
ZZZZZZ	1.00	15:03																									
ZZZZZZ	1.00	15:05																									
ZZZZZZ	1.00	15:06																									
ZZZZZZ	1.00	15:07																									
ZZZZZZ	1.00	15:08																									
ZZZZZZ	1.00	15:10																									
ZZZZZZ	1.00	15:11																									
ZZZZZZ	1.00	15:12																									
Method Blank	1.00	15:13																X									
ZZZZZZ	1.00	15:14																									
CCV	1.00	15:16																X									
CCB	1.00	15:17																X									
ZZZZZZ	1.00	15:18																									
ZZZZZZ	1.00	15:25																									
CCV	1.00	15:27																X									
CCB	1.00	15:28																X									

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 101403

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.15	75.0					

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101503

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/15/2003 End Date: 10/15/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	14:14																X									
ICB	1.00	14:15																X									
CRA	1.00	14:17																X									
ZZZZZZ	1.00	14:18																									
ZZZZZZ	1.00	14:19																									
ZZZZZZ	1.00	14:21																									
ZZZZZZ	1.00	14:22																									
ZZZZZZ	1.00	14:24																									
ZZZZZZ	1.00	14:25																									
ZZZZZZ	1.00	14:26																									
ZZZZZZ	1.00	14:28																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:30																									
CCV	1.00	14:31																X									
CCB	1.00	14:32																X									
ZZZZZZ	1.00	14:34																									
ZZZZZZ	1.00	14:35																									
ZZZZZZ	1.00	14:36																									
ZZZZZZ	1.00	14:37																									
ZZZZZZ	1.00	14:38																									
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:41																									
ZZZZZZ	1.00	14:43																									
ZZZZZZ	1.00	14:44																									
ZZZZZZ	1.00	14:45																									
CCV	1.00	14:46																X									
CCB	1.00	14:48																X									
ZZZZZZ	1.00	14:49																									
ZZZZZZ	1.00	14:50																									
ZZZZZZ	1.00	14:51																									
ZZZZZZ	1.00	14:52																									
ZZZZZZ	1.00	14:54																									
ZZZZZZ	1.00	14:55																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101503

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/15/2003 End Date: 10/15/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-007B-P5	1.00	14:56																X									
ZZZZZZ	1.00	14:58																									
ZZZZZZ	1.00	14:59																									
ZZZZZZ	1.00	15:00																									
CCV	1.00	15:02																X									
CCB	1.00	15:03																X									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:05																									
ZZZZZZ	1.00	15:06																									
ZZZZZZ	1.00	15:08																									
ZZZZZZ	1.00	15:09																									
ZZZZZZ	1.00	15:10																									
ZZZZZZ	1.00	15:11																									
ZZZZZZ	1.00	15:14																									
ZZZZZZ	1.00	15:15																									
LCS	1.00	15:16																X									
CCV	1.00	15:17																X									
CCB	1.00	15:19																X									
ZZZZZZ	1.00	15:20																									
ZZZZZZ	1.00	15:22																									
ZZZZZZ	1.00	15:23																									
ZZZZZZ	1.00	15:24																									
Method Blank	1.00	15:26																X									
ZZZZZZ	1.00	15:27																									
CCV	1.00	15:28																X									
CCB	1.00	15:29																X									

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 101503

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.15	75.0					

Comments:

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U R S Corporation

ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101403

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/15/2003 End Date: 10/15/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	14:14																X									
ICB	1.00	14:15																X									
CRA	1.00	14:17																X									
ZZZZZZ	1.00	14:18																									
ZZZZZZ	1.00	14:19																									
ZZZZZZ	1.00	14:21																									
ZZZZZZ	1.00	14:22																									
ZZZZZZ	1.00	14:24																									
ZZZZZZ	1.00	14:25																									
ZZZZZZ	1.00	14:26																									
ZZZZZZ	1.00	14:28																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:30																									
CCV	1.00	14:31																X									
CCB	1.00	14:32																X									
ZZZZZZ	1.00	14:34																									
ZZZZZZ	1.00	14:35																									
ZZZZZZ	1.00	14:36																									
ZZZZZZ	1.00	14:37																									
ZZZZZZ	1.00	14:38																									
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:41																									
GW03-014A-P1	1.00	14:43																X									
GW03-013A-P2	1.00	14:44																X									
LCS	1.00	14:45																X									
CCV	1.00	14:46																X									
CCB	1.00	14:48																X									
GW03-013A-P2\MD	1.00	14:49																X									
GW03-013A-P2\MS	1.00	14:50																X									
GW03-011A-P2	1.00	14:51																X									
GW03-011A-P2\MD	1.00	14:52																X									
GW03-011A-P2\MS	1.00	14:54																X									
EB1-10/14/03	1.00	14:55																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101403

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 10/15/2003 End Date: 10/15/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	14:56																									
ZZZZZZ	1.00	14:58																									
ZZZZZZ	1.00	14:59																									
ZZZZZZ	1.00	15:00																									
CCV	1.00	15:02																X									
CCB	1.00	15:03																X									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:05																									
ZZZZZZ	1.00	15:06																									
ZZZZZZ	1.00	15:08																									
ZZZZZZ	1.00	15:09																									
ZZZZZZ	1.00	15:10																									
ZZZZZZ	1.00	15:11																									
ZZZZZZ	1.00	15:14																									
ZZZZZZ	1.00	15:15																									
LCS	1.00	15:16																X									
CCV	1.00	15:17																X									
CCB	1.00	15:19																X									
ZZZZZZ	1.00	15:20																									
ZZZZZZ	1.00	15:22																									
ZZZZZZ	1.00	15:23																									
Method Blank	1.00	15:24																X									
Method Blank	1.00	15:26																X									
ZZZZZZ	1.00	15:27																									
CCV	1.00	15:28																X									
CCB	1.00	15:29																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 101503

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	17.68	88.4	15.17	75.8
Cadmium				10.0	9.91	99.1	10.20	102.0
Calcium				5000.0	4948.57	99.0	5156.81	103.1
Lead				6.0	4.17	69.5	4.54	75.7
Magnesium				5000.0	4948.25	99.0	5187.47	103.7
Potassium				5000.0	5164.37	103.3	5201.69	104.0
Sodium				5000.0	4763.25	95.3	4896.11	97.9

Comments:

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U R S Corporation

ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-012A-P3L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101503

Matrix (soil/water): GW Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	11.79		50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	7770118.00		8720875.00		12.2	E	P
Lead	60.09		71.60		19.2		P
Magnesium	2747420.00		2849500.00		3.7		P
Potassium	400028.00		1000000.00	U	100.0		P
Sodium	23334740.00		23066700.00		1.1		P

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101503

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/23/2003 End Date: 10/24/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	23:54				X			X	X					X	X				X			X				
STD 1	1.00	23:59				X			X	X					X	X				X			X				
STD 2	1.00	00:04				X			X	X					X	X				X			X				
STD 3	1.00	00:09				X			X	X					X	X				X			X				
STD 3 VER	1.00	00:13				X			X	X					X	X				X			X				
ICV	1.00	00:18				X			X	X					X	X				X			X				
ICB	1.00	00:23				X			X	X					X	X				X			X				
CRI	1.00	00:28				X			X	X					X	X				X			X				
ICSA	1.00	00:33				X			X	X					X	X				X			X				
ICSAB	1.00	00:38				X			X	X					X	X				X			X				
CCV	1.00	00:44				X			X	X					X	X				X			X				
CCB	1.00	00:49				X			X	X					X	X				X			X				
ZZZZZZ	1.00	00:54																									
ZZZZZZ	1.00	00:58																									
ZZZZZZ	1.00	01:03																									
ZZZZZZ	1.00	01:08																									
ZZZZZZ	1.00	01:13																									
Method Blank	1.00	01:18				X			X	X					X	X				X			X				
LFB	1.00	01:23				X			X	X					X	X				X			X				
ZZZZZZ	1.00	01:28																									
ZZZZZZ	1.00	01:33																									
ZZZZZZ	1.00	01:37																									
CCV	1.00	01:44				X			X	X					X	X				X			X				
CCB	1.00	01:49				X			X	X					X	X				X			X				
ZZZZZZ	1.00	01:53																									
ZZZZZZ	1.00	01:58																									
ZZZZZZ	1.00	02:03																									
ZZZZZZ	1.00	02:08																									
ZZZZZZ	1.00	02:13																									
ZZZZZZ	5.00	02:18																									
ZZZZZZ	1.00	02:23																									
ZZZZZZ	1.00	02:28																									
ZZZZZZ	1.00	02:32																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101503

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/23/2003 End Date: 10/24/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	02:37																									
CCV	1.00	02:43				X			X	X					X	X				X			X				
CCB	1.00	02:48				X			X	X					X	X				X			X				
ZZZZZZ	5.00	02:53																									
ZZZZZZ	1.00	02:58																									
ZZZZZZ	1.00	03:03																									
ZZZZZZ	1.00	03:08																									
ZZZZZZ	1.00	03:13																									
GW03-007B-P5	1.00	03:18				X			X	X					X	X				X			X				
GW03-007B-P5L	5.00	03:23				X			X	X					X	X				X			X				
GW03-007B-P5A	1.00	03:27				X			X	X					X	X				X			X				
GW03-012A-P3	1.00	03:32				X			X						X												
GW03-012A-P3L	5.00	03:37				X			X						X												
CCV	1.00	03:43				X			X	X					X	X				X			X				
CCB	1.00	03:48				X			X	X					X	X				X			X				
GW03-012A-P3A	1.00	03:53				X			X						X												
GW03-013B-P6	1.00	03:58				X			X						X	X											
ZZZZZZ	1.00	04:03																									
ZZZZZZ	1.00	04:08																									
ZZZZZZ	5.00	04:13																									
ZZZZZZ	1.00	04:18																									
ZZZZZZ	1.00	04:22																									
ZZZZZZ	1.00	04:27																									
CCV	1.00	04:32				X			X	X					X	X				X			X				
CCB	1.00	04:37				X			X	X					X	X				X			X				
CRI	1.00	04:42				X			X	X					X	X				X			X				
ICSA	1.00	04:47				X			X	X					X	X				X			X				
ICSAB	1.00	04:52				X			X	X					X	X				X			X				
CCV	1.00	04:58				X			X	X					X	X				X			X				
CCB	1.00	05:03				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 101403

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	17.68	88.4	15.17	75.8
Cadmium				10.0	9.91	99.1	10.20	102.0
Calcium				5000.0	4948.57	99.0	5156.81	103.1
Lead				6.0	4.17	69.5	4.54	75.7
Magnesium				5000.0	4948.25	99.0	5187.47	103.7
Potassium				5000.0	5164.37	103.3	5201.69	104.0
Sodium				5000.0	4763.25	95.3	4896.11	97.9

Comments:

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-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

GW03-011A-P2\MS

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101403

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	220.9800		10.0000	U	200.00	110.5		P
Cadmium	75 - 125	198.1000		1.0000	U	200.00	99.0		P
Calcium		914705.8750		895174.0000		10000.00	195.3		P
Lead	75 - 125	200.7000		6.0000	U	200.00	100.4		P
Magnesium		224249.4063		220797.5000		10000.00	34.5		P
Potassium	75 - 125	51187.1094		37694.3516		10000.00	134.9	N	P
Mercury	75 - 125	4.0500		0.2000	U	6.67	60.7	N	CV
Sodium		1190891.0000		1156585.0000		10000.00	343.1		P

Comments:

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-010A-P2L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101403

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	589232.38		621335.31		5.4		P
Lead	6.00	U	30.00	U			P
Magnesium	51718.75		56948.75		10.1	E	P
Potassium	7969.54		7859.15		1.4		P
Sodium	112315.30		113495.30		1.1		P

Comments:

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-011A-P2L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101403

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	895174.00		977710.00		9.2		P
Lead	6.00	U	30.00	U			P
Magnesium	220797.50		214199.59		3.0		P
Potassium	37694.35		29969.90		20.5	E	P
Sodium	1156585.00		1238260.00		7.1		P

Comments:

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INSTRUMENT DETECTION LIMITS (QUARTERLY)

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 101403

ICP ID Number: SUPERTRACE2 Date: 7/8/2003

Flame AA ID Number: _____

Furnace AA ID Number:

Analyte	Wave-length (nm)	Back-ground	EQL (ug/L)	EQL (ug/L)	M
Arsenic	189.042		10	10	P
Cadmium	226.502		1	1	P
Calcium	317.933		500	500	P
Lead	220.353		6	6	P
Magnesium	279.078		200	200	P
Potassium	766.491		500	500	P
Sodium	330.232		1000	1000	P

Comments: _____

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PREPARATION LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101403

Method: P Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
GW03-010A-P2	10/17/2003	50.0	50.0
GW03-013A-P3	10/17/2003	50.0	50.0
GW03-011A-P3	10/17/2003	50.0	50.0
GW03-015A-P2	10/17/2003	50.0	50.0
LFB	10/17/2003	50.0	50.0
Method Blank	10/17/2003	50.0	50.0

Comments:

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PREPARATION LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101403

Method: P Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
GW03-014A-P1	10/23/2003	50.0	50.0
GW03-014A-P2	10/23/2003	50.0	50.0
GW03-013A-P2	10/23/2003	50.0	50.0
GW03-013A-P2\MD	10/23/2003	50.0	50.0
GW03-013A-P2\MS	10/23/2003	50.0	50.0
GW03-011A-P2	10/23/2003	50.0	50.0
GW03-011A-P2\MD	10/23/2003	50.0	50.0
GW03-011A-P2\MS	10/23/2003	50.0	50.0
EB1-10/14/03	10/23/2003	50.0	50.0
LFB	10/23/2003	50.0	50.0
Method Blank	10/23/2003	50.0	50.0

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 101403

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/23/2003 End Date: 10/24/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	23:54				X			X	X					X	X				X			X				
STD 1	1.00	23:59				X			X	X					X	X				X			X				
STD 2	1.00	00:04				X			X	X					X	X				X			X				
STD 3	1.00	00:09				X			X	X					X	X				X			X				
STD 3 VER	1.00	00:13				X			X	X					X	X				X			X				
ICV	1.00	00:18				X			X	X					X	X				X			X				
ICB	1.00	00:23				X			X	X					X	X				X			X				
CRI	1.00	00:28				X			X	X					X	X				X			X				
ICSA	1.00	00:33				X			X	X					X	X				X			X				
ICSAB	1.00	00:38				X			X	X					X	X				X			X				
CCV	1.00	00:44				X			X	X					X	X				X			X				
CCB	1.00	00:49				X			X	X					X	X				X			X				
ZZZZZZ	1.00	00:54																									
ZZZZZZ	1.00	00:58																									
ZZZZZZ	1.00	01:03																									
ZZZZZZ	1.00	01:08																									
ZZZZZZ	1.00	01:13																									
Method Blank	1.00	01:18				X			X	X					X	X				X			X				
LFB	1.00	01:23				X			X	X					X	X				X			X				
ZZZZZZ	1.00	01:28																									
ZZZZZZ	1.00	01:33																									
ZZZZZZ	1.00	01:37																									
CCV	1.00	01:44				X			X	X					X	X				X			X				
CCB	1.00	01:49				X			X	X					X	X				X			X				
ZZZZZZ	1.00	01:53																									
ZZZZZZ	1.00	01:58																									
GW03-014A-P1	1.00	02:03				X			X						X	X				X							
GW03-014A-P2	1.00	02:08				X			X						X					X							
GW03-013A-P2	1.00	02:13				X			X	X					X	X				X			X				
GW03-013A-P2L	5.00	02:18				X			X	X					X	X				X			X				
GW03-013A-P2A	1.00	02:23				X			X	X					X	X				X			X				
GW03-013A-P2\MD	1.00	02:28				X			X	X					X	X				X			X				
GW03-013A-P2\MS	1.00	02:32				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101403

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/23/2003 End Date: 10/24/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-011A-P2	1.00	02:37				X			X						X	X				X							
CCV	1.00	02:43				X			X	X					X	X				X			X				
CCB	1.00	02:48				X			X	X					X	X				X			X				
GW03-011A-P2L	5.00	02:53				X			X						X	X				X							
GW03-011A-P2A	1.00	02:58				X			X						X	X				X							
GW03-011A-P2\MD	1.00	03:03				X			X						X	X				X							
GW03-011A-P2\MS	1.00	03:08				X			X						X	X				X							
EB1-10/14/03	1.00	03:13				X			X	X					X	X				X			X				
ZZZZZZ	1.00	03:18																									
ZZZZZZ	5.00	03:23																									
ZZZZZZ	1.00	03:27																									
ZZZZZZ	1.00	03:32																									
ZZZZZZ	5.00	03:37																									
CCV	1.00	03:43				X			X	X					X	X				X			X				
CCB	1.00	03:48				X			X	X					X	X				X			X				
ZZZZZZ	1.00	03:53																									
ZZZZZZ	1.00	03:58																									
ZZZZZZ	1.00	04:03																									
ZZZZZZ	1.00	04:08																									
ZZZZZZ	5.00	04:13																									
ZZZZZZ	1.00	04:18																									
ZZZZZZ	1.00	04:22																									
ZZZZZZ	1.00	04:27																									
CCV	1.00	04:32				X			X	X					X	X				X			X				
CCB	1.00	04:37				X			X	X					X	X				X			X				
CRI	1.00	04:42				X			X	X					X	X				X			X				
ICSA	1.00	04:47				X			X	X					X	X				X			X				
ICSAB	1.00	04:52				X			X	X					X	X				X			X				
CCV	1.00	04:58				X			X	X					X	X				X			X				
CCB	1.00	05:03				X			X	X					X	X				X			X				

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-011C-P7L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 092503

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	87375.87		88873.84		1.7		P
Lead	6.00	U	30.00	U			P
Magnesium	71654.03		70843.66		1.1		P
Potassium	1772.94		1392 ~~2500.00~~	~~U~~	~~100.0~~		P 21%
Sodium	42016.67		39620.85		5.7		P

Comments:

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Method: TRACE2 Sample Name: AD349804/L (1:5) Operator:
Run Time: 10/08/03 07:56:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Al3082	As1890	B_2496	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.04184	-.00019	.01499	.03903	.00004	17.775	-.00017
SDev	.00238	.00161	.00151	.00004	.00001	.046	.00001
%RSD	5.6866	841.79	10.086	.11206	21.489	.25743	4.5636
#1	.04352	.00095	.01606	.03906	.00003	17.807	-.00017
#2	.04015	-.00133	.01392	.03900	.00004	17.742	-.00016
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	500.00	20.000	50.000	10.000	5.0000	350.00	30.000
Low	-.04000	-.00500	-.00800	-.00300	-.00300	-.05000	-.00150

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00004	.00001	-.00144	.11121	.27835	14.169	.01092
SDev	.00007	.00007	.00002	.00475	.00669	.013	.00006
%RSD	161.30	1182.4	1.7101	4.2682	2.4023	.09514	.54987
#1	.00001	.00006	-.00146	.11456	.28308	14.178	.01088
#2	-.00009	-.00004	-.00142	.10785	.27362	14.159	.01097
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass	LC Pass
High	40.000	40.000	25.000	500.00	100.00	500.00	20.000
Low	-.00300	-.00300	-.00400	-.04000	-.50000	-.04000	-.00300

Elem	Mo2020	Na3302	Ni2316	2203/1	2203/2	PB2203	SE1960
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.00179	7.9242	-.00019	.00103	-.00176	-.00083	-.00164
SDev	.00045	.0396	.00002	.00156	.00051	.00086	.00095
%RSD	24.954	.50006	12.381	151.56	28.874	103.35	57.476
#1	.00210	7.9522	-.00020	-.00007	-.00212	-.00144	-.00098
#2	.00147	7.8962	-.00017	.00214	-.00140	-.00022	-.00231
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass
High	10.000	100.00	25.000			40.000	40.000
Low	-.00500	-.50000	-.00300			-.00400	-.01000

Elem	Sb2068	1960/1	1960/2	Ti3372	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.00037	.00217	-.00355	.00000	.00019	-.00000	.00094
SDev	.00366	.00017	.00133	.00001	.00319	.00009	.00031
%RSD	981.76	7.7849	37.534	180.19	1648.8	7070.8	32.639
#1	-.00296	.00229	-.00261	-.00000	.00245	-.00007	.00073
#2	.00221	.00205	-.00450	.00001	-.00206	.00006	.00116
Errors	LC Pass	NOCHECK	NOCHECK	LC Pass	LC Pass	LC Pass	LC Pass
High	50.000			10.000	50.000	50.000	5.0000
Low	-.01000			-.00200	-.01000	-.00300	-.00300

Elem	Sn1899	Ag3280

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092503

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/8/2003 End Date: 10/8/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	01:58				X			X	X					X	X				X			X				
STD 1	1.00	02:03				X			X	X					X	X				X			X				
STD 2	1.00	02:08				X			X	X					X	X				X			X				
STD 3	1.00	02:12				X			X	X					X	X				X			X				
STD 3 VER	1.00	02:17				X			X	X					X	X				X			X				
ICV	1.00	02:22				X			X	X					X	X				X			X				
ICB	1.00	02:26				X			X	X					X	X				X			X				
CRI	1.00	02:31				X			X	X					X	X				X			X				
ICSA	1.00	02:36				X			X	X					X	X				X			X				
ICSAB	1.00	02:40				X			X	X					X	X				X			X				
CCV	1.00	02:45				X			X	X					X	X				X			X				
CCB	1.00	02:50				X			X	X					X	X				X			X				
ZZZZZZ	1.00	02:54																									
ZZZZZZ	1.00	02:59																									
ZZZZZZ	1.00	03:04																									
ZZZZZZ	1.00	03:09																									
ZZZZZZ	10.00	03:13																									
CCV	1.00	03:19				X			X	X					X	X				X			X				
CCB	1.00	03:24				X			X	X					X	X				X			X				
ZZZZZZ	10.00	03:29																									
ZZZZZZ	5.00	03:33																									
ZZZZZZ	5.00	03:38																									
ZZZZZZ	25.00	03:43																									
ZZZZZZ	5.00	03:47																									
ZZZZZZ	5.00	03:52																									
ZZZZZZ	5.00	03:57																									
ZZZZZZ	5.00	04:01																									
ZZZZZZ	5.00	04:06																									
ZZZZZZ	5.00	04:11																									
CCV	1.00	04:17				X			X	X					X	X				X			X				
CCB	1.00	04:21				X			X	X					X	X				X			X				
ZZZZZZ	50.00	04:26																									
ZZZZZZ	10.00	04:31																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092503

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/8/2003 End Date: 10/8/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	10.00	04:35																									
ZZZZZZ	10.00	04:40																									
ZZZZZZ	10.00	04:45																									
ZZZZZZ	10.00	04:49																									
ZZZZZZ	10.00	04:54																									
ZZZZZZ	10.00	04:59																									
ZZZZZZ	5.00	05:03																									
ZZZZZZ	5.00	05:08																									
CCV	1.00	05:14				X			X	X					X	X				X			X				
CCB	1.00	05:19				X			X	X					X	X				X			X				
ZZZZZZ	5.00	05:23																									
ZZZZZZ	5.00	05:28																									
ZZZZZZ	5.00	05:33																									
ZZZZZZ	10.00	05:38																									
ZZZZZZ	10.00	05:42																									
ZZZZZZ	50.00	05:47																									
ZZZZZZ	50.00	05:52																									
ZZZZZZ	250.00	05:56																									
ZZZZZZ	50.00	06:01																									
ZZZZZZ	50.00	06:06																									
CCV	1.00	06:11				X			X	X					X	X				X			X				
CCB	1.00	06:16				X			X	X					X	X				X			X				
ZZZZZZ	50.00	06:21																									
ZZZZZZ	50.00	06:26																									
ZZZZZZ	50.00	06:30																									
ZZZZZZ	50.00	06:35																									
ZZZZZZ	50.00	06:40																									
ZZZZZZ	50.00	06:44																									
Method Blank	1.00	06:49				X			X	X					X	X				X			X				
LFB	1.00	06:54				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:58																									
ZZZZZZ	5.00	07:03																									
CCV	1.00	07:09				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092503

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/8/2003 End Date: 10/8/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	07:14				X			X	X					X	X				X			X				
ZZZZZZ	1.00	07:18																									
ZZZZZZ	1.00	07:23																									
ZZZZZZ	1.00	07:28																									
ZZZZZZ	1.00	07:32																									
ZZZZZZ	1.00	07:37																									
ZZZZZZ	1.00	07:42																									
GW03-011C-P8	1.00	07:46				X			X	X					X	X				X			X				
GW03-011C-P7	1.00	07:51				X			X	X					X	X				X			X				
GW03-011C-P7L	5.00	07:56				X			X	X					X	X				X			X				
GW03-011C-P7A	1.00	08:01				X			X	X					X	X				X			X				
CCV	1.00	08:06				X			X	X					X	X				X			X				
CCB	1.00	08:11				X			X	X					X	X				X			X				
GW03-011C-P7 MD	1.00	08:16				X			X	X					X	X				X			X				
GW03-011C-P7 MS	1.00	08:20				X			X	X					X	X				X			X				
GW03-011B-P4	1.00	08:25				X			X	X					X	X				X			X				
ZZZZZZ	5.00	08:30																									
ZZZZZZ	25.00	08:35																									
ZZZZZZ	5.00	08:39																									
ZZZZZZ	5.00	08:46																									
ZZZZZZ	5.00	08:50																									
ZZZZZZ	5.00	08:55																									
ZZZZZZ	1.00	09:00																									
CCV	1.00	09:06				X			X	X					X	X				X			X				
CCB	1.00	09:10				X			X	X					X	X				X			X				
ZZZZZZ	1.00	09:15																									
ZZZZZZ	1.00	09:20																									
ZZZZZZ	5.00	09:24																									
ZZZZZZ	1.00	09:29																									
ZZZZZZ	1.00	09:34																									
ZZZZZZ	1.00	09:38																									
ZZZZZZ	1.00	09:43																									
CRI	1.00	09:49				X			X	X					X	X				X			X				

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-003A-P2L

Contract: NY03-281

Lab Code: STLBFLO Case No.: Sas No.: SDG NO.: 092603

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	236306.59		246476.80		4.3		P
Lead	6.00	U	30.00	U			P
Magnesium	117630.20		114829.90		2.4		P
Potassium	9442.05		7893.15 ~~12500.00~~	~~U~~	16.4 ~~100.0~~		P
Sodium	181082.80		180520.80		0.3		P

6/1/10

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092603

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/8/03 End Date: 10/8/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	01:58				X			X	X					X	X				X			X				
STD 1	1.00	02:03				X			X	X					X	X				X			X				
STD 2	1.00	02:08				X			X	X					X	X				X			X				
STD 3	1.00	02:12				X			X	X					X	X				X			X				
STD 3 VER	1.00	02:17				X			X	X					X	X				X			X				
ICV	1.00	02:22				X			X	X					X	X				X			X				
ICB	1.00	02:26				X			X	X					X	X				X			X				
CRI	1.00	02:31				X			X	X					X	X				X			X				
ICSA	1.00	02:36				X			X	X					X	X				X			X				
ICSAB	1.00	02:40				X			X	X					X	X				X			X				
CCV	1.00	02:45				X			X	X					X	X				X			X				
CCB	1.00	02:50				X			X	X					X	X				X			X				
ZZZZZZ	1.00	02:54																									
ZZZZZZ	1.00	02:59																									
ZZZZZZ	1.00	03:04																									
ZZZZZZ	1.00	03:09																									
ZZZZZZ	10.00	03:13																									
CCV	1.00	03:19				X			X	X					X	X				X			X				
CCB	1.00	03:24				X			X	X					X	X				X			X				
ZZZZZZ	10.00	03:29																									
ZZZZZZ	5.00	03:33																									
ZZZZZZ	5.00	03:38																									
ZZZZZZ	25.00	03:43																									
ZZZZZZ	5.00	03:47																									
ZZZZZZ	5.00	03:52																									
ZZZZZZ	5.00	03:57																									
ZZZZZZ	5.00	04:01																									
ZZZZZZ	5.00	04:06																									
ZZZZZZ	5.00	04:11																									
CCV	1.00	04:17				X			X	X					X	X				X			X				
CCB	1.00	04:21				X			X	X					X	X				X			X				
ZZZZZZ	50.00	04:26																									
ZZZZZZ	10.00	04:31																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092603

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/8/03 End Date: 10/8/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	10.00	04:35																									
ZZZZZZ	10.00	04:40																									
ZZZZZZ	10.00	04:45																									
ZZZZZZ	10.00	04:49																									
ZZZZZZ	10.00	04:54																									
ZZZZZZ	10.00	04:59																									
ZZZZZZ	5.00	05:03																									
ZZZZZZ	5.00	05:08																									
CCV	1.00	05:14				X			X	X					X	X				X			X				
CCB	1.00	05:19				X			X	X					X	X				X			X				
ZZZZZZ	5.00	05:23																									
ZZZZZZ	5.00	05:28																									
ZZZZZZ	5.00	05:33																									
ZZZZZZ	10.00	05:38																									
ZZZZZZ	10.00	05:42																									
ZZZZZZ	50.00	05:47																									
ZZZZZZ	50.00	05:52																									
ZZZZZZ	250.00	05:56																									
ZZZZZZ	50.00	06:01																									
ZZZZZZ	50.00	06:06																									
CCV	1.00	06:11				X			X	X					X	X				X			X				
CCB	1.00	06:16				X			X	X					X	X				X			X				
ZZZZZZ	50.00	06:21																									
ZZZZZZ	50.00	06:26																									
ZZZZZZ	50.00	06:30																									
ZZZZZZ	50.00	06:35																									
ZZZZZZ	50.00	06:40																									
ZZZZZZ	50.00	06:44																									
Method Blank	1.00	06:49				X			X	X					X	X				X			X				
LFB	1.00	06:54				X			X	X					X	X				X			X				
GW03-003A-P2	1.00	06:58				X			X	X					X	X											
GW03-003A-P2L	5.00	07:03				X			X	X					X	X											
CCV	1.00	07:09				X			X	X					X	X				X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092603

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/8/03 End Date: 10/8/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	07:14				X			X	X					X	X				X			X				
GW03-003A-P2A	1.00	07:18				X			X	X					X	X											
GW03-003A-P2 MS	1.00	07:23				X			X	X					X	X											
GW03-003A-P2 SD	1.00	07:28				X			X	X					X	X											
GW03-003A-P1	1.00	07:32				X			X	X					X	X				X			X				
GW03-010B-P4	1.00	07:37				X			X	X					X	X				X			X				
GW03-010C-P7	1.00	07:42				X			X	X					X	X				X							
ZZZZZZ	1.00	07:46																									
ZZZZZZ	1.00	07:51																									
ZZZZZZ	5.00	07:56																									
ZZZZZZ	1.00	08:01																									
CCV	1.00	08:06				X			X	X					X	X				X			X				
CCB	1.00	08:11				X			X	X					X	X				X			X				
ZZZZZZ	1.00	08:16																									
ZZZZZZ	1.00	08:20																									
ZZZZZZ	1.00	08:25																									
GW03-003A-P2	5.00	08:30																		X			X				
GW03-003A-P2L	25.00	08:35																		X			X				
GW03-003A-P2A	5.00	08:39																		X			X				
GW03-003A-P2 MS	5.00	08:46																		X			X				
GW03-003A-P2 SD	5.00	08:50																		X			X				
GW03-010C-P7	5.00	08:55																					X				
ZZZZZZ	1.00	09:00																									
CCV	1.00	09:06				X			X	X					X	X				X			X				
CCB	1.00	09:10				X			X	X					X	X				X			X				
ZZZZZZ	1.00	09:15																									
ZZZZZZ	1.00	09:20																									
ZZZZZZ	5.00	09:24																									
ZZZZZZ	1.00	09:29																									
ZZZZZZ	1.00	09:34																									
ZZZZZZ	1.00	09:38																									
ZZZZZZ	1.00	09:43																									
CRI	1.00	09:49				X			X	X					X	X				X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 092603

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/8/03 End Date: 10/8/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICSA	1.00	09:53				X			X	X					X	X				X			X				
ICSAB	1.00	09:58				X			X	X					X	X				X			X				
CCV	1.00	10:03				X			X	X					X	X				X			X				
CCB	1.00	10:13				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-007B-P4L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 100103

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	234254.70		245729.00		4.9		P
Lead	6.00	U	30.00	U			P
Magnesium	90085.75		89240.05		0.9		P
Potassium	3469.05		3099.55		10.7		P
Sodium	15506.98		14808.70		4.5		P

Comments:

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PREPARATION LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 100103

Method: P Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
GW03-007B-P4	10/6/03	50.0	50.0
GW03-007A-P1	10/6/03	50.0	50.0
LFB	10/6/03	50.0	50.0
Method Blank	10/6/03	50.0	50.0

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100103

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/7/03 End Date: 10/7/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	14:03																									
ZZZZZZ	1.00	14:08																									
ZZZZZZ	1.00	14:12																									
ZZZZZZ	1.00	14:17																									
ZZZZZZ	1.00	14:22																									
ZZZZZZ	1.00	14:26																									
CCV	1.00	14:32				X			X	X					X	X				X			X				
CCB	1.00	14:37				X			X	X					X	X				X			X				
ZZZZZZ	1.00	14:41																									
ZZZZZZ	1.00	14:46																									
ZZZZZZ	1.00	14:51																									
ZZZZZZ	1.00	14:55																									
ZZZZZZ	1.00	15:00																									
ZZZZZZ	1.00	15:05																									
ZZZZZZ	5.00	15:09																									
ZZZZZZ	1.00	15:14																									
ZZZZZZ	1.00	15:19																									
ZZZZZZ	1.00	15:23																									
CCV	1.00	15:29				X			X	X					X	X				X			X				
CCB	1.00	15:58				X			X	X					X	X				X			X				
ZZZZZZ	1.00	16:03																									
ZZZZZZ	1.00	16:08																									
Method Blank	1.00	16:12				X			X	X					X	X				X			X				
LFB	1.00	16:17				X			X	X					X	X				X			X				
GW03-007B-P4	1.00	16:22				X			X	X					X	X				X			X				
GW03-007B-P4L	5.00	16:26				X			X	X					X	X				X			X				
GW03-007B-P4A	1.00	16:31				X			X	X					X	X				X			X				
GW03-007A-P1	1.00	16:36				X			X	X					X	X				X			X				
ZZZZZZ	1.00	16:40																									
ZZZZZZ	1.00	16:45																									
CCV	1.00	16:51				X			X	X					X	X				X			X				
CCB	1.00	16:55				X			X	X					X	X				X			X				
ZZZZZZ	1.00	17:00																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-013B-P4L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 100803

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10 U 2.98	LPU	50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	135195.91		143278.91		6.0		P
Lead	6.00	U	30.00	U			P
Magnesium	44747.57		45981.60		2.8		P
Potassium	2933.88		2562.15		12.7		P
Sodium	302458.81		304633.00		0.7		P

Comments: _____

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-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 100903

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	14.97	74.8	14.22	71.1
Cadmium				10.0	10.34	103.4	10.36	103.6
Calcium				5000.0	5041.83	100.8	4979.28	99.6
Lead				6.0	6.85	114.2	7.98	133.0
Magnesium				5000.0	5052.99	101.1	5132.34	102.6
Potassium				5000.0	5359.20	107.2	5327.83	106.6
Sodium				5000.0	4788.89	95.8	5034.74	100.7

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/2003 End Date: 10/16/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	13:01				X			X	X					X	X				X			X				
STD 1	1.00	13:06				X			X	X					X	X				X			X				
STD 2	1.00	13:10				X			X	X					X	X				X			X				
STD 3	1.00	13:15				X			X	X					X	X				X			X				
STD 3 VER	1.00	13:20				X			X	X					X	X				X			X				
ICV	1.00	13:25				X			X	X					X	X				X			X				
ICB	1.00	13:30				X			X	X					X	X				X			X				
CRI	1.00	13:35				X			X	X					X	X				X			X				
ICSA	1.00	13:39				X			X	X					X	X				X			X				
ICSAB	1.00	13:44				X			X	X					X	X				X			X				
CCV	1.00	13:50				X			X	X					X	X				X			X				
CCB	1.00	13:55				X			X	X					X	X				X			X				
ZZZZZZ	1.00	14:00																									
ZZZZZZ	1.00	14:05																									
ZZZZZZ	1.00	14:10																									
ZZZZZZ	1.00	14:15																									
ZZZZZZ	1.00	14:20																									
ZZZZZZ	1.00	14:24																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:34																									
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:44																									
CCV	1.00	14:50				X			X	X					X	X				X			X				
CCB	1.00	14:55				X			X	X					X	X				X			X				
ZZZZZZ	1.00	15:00																									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:09																									
ZZZZZZ	1.00	15:14																									
ZZZZZZ	5.00	15:19																									
ZZZZZZ	1.00	15:24																									
ZZZZZZ	1.00	15:29																									
ZZZZZZ	1.00	15:33																									
ZZZZZZ	1.00	15:38																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/2003 End Date: 10/16/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	15:43																									
CCV	1.00	15:49				X			X	X					X	X				X			X				
CCB	1.00	15:54				X			X	X					X	X				X			X				
ZZZZZZ	1.00	15:59																									
ZZZZZZ	1.00	16:04																									
Method Blank	1.00	16:09				X			X	X					X	X				X			X				
LFB	1.00	16:13				X			X	X					X	X				X			X				
ZZZZZZ	1.00	16:18																									
ZZZZZZ	5.00	16:23																									
ZZZZZZ	1.00	16:28																									
ZZZZZZ	1.00	16:33																									
ZZZZZZ	1.00	16:38																									
ZZZZZZ	1.00	16:42																									
CCV	1.00	16:49				X			X	X					X	X				X			X				
CCB	1.00	16:53				X			X	X					X	X				X			X				
GW03-009A-P2	1.00	17:08				X			X						X	X				X			X				
GW03-009A-P2L	5.00	17:13				X			X						X	X				X			X				
GW03-009A-P2A	1.00	17:18				X			X						X	X				X			X				
GW03-010A-P1	1.00	17:22				X			X						X	X											
GW03-012B-P6	1.00	17:27				X			X	X					X	X											
ZZZZZZ	1.00	17:32																									
ZZZZZZ	5.00	17:37																									
ZZZZZZ	1.00	17:42																									
ZZZZZZ	1.00	17:47																									
ZZZZZZ	1.00	17:51																									
CCV	1.00	17:58				X			X	X					X	X				X			X				
CCB	1.00	18:02				X			X	X					X	X				X			X				
ZZZZZZ	1.00	18:07																									
ZZZZZZ	1.00	18:12																									
ZZZZZZ	1.00	18:17																									
ZZZZZZ	1.00	18:22																									
ZZZZZZ	1.00	18:27																									
ZZZZZZ	1.00	18:31																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 100903

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/2003 End Date: 10/16/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	18:36																									
ZZZZZZ	1.00	18:41																									
ZZZZZZ	5.00	18:46																									
ZZZZZZ	1.00	18:51																									
CCV	1.00	18:57				X			X	X					X	X				X			X				
CCB	1.00	19:02				X			X	X					X	X				X			X				
ZZZZZZ	1.00	19:07																									
ZZZZZZ	1.00	19:12																									
ZZZZZZ	1.00	19:16																									
ZZZZZZ	1.00	19:21																									
ZZZZZZ	1.00	19:26																									
ZZZZZZ	1.00	19:31																									
ZZZZZZ	1.00	19:36																									
ZZZZZZ	1.00	19:41																									
ZZZZZZ	1.00	19:46																									
ZZZZZZ	1.00	19:50																									
CCV	1.00	19:57				X			X	X					X	X				X			X				
CCB	1.00	20:01				X			X	X					X	X				X			X				
ZZZZZZ	1.00	20:06																									
ZZZZZZ	1.00	20:11																									
ZZZZZZ	1.00	20:16																									
ZZZZZZ	1.00	20:21																									
ZZZZZZ	1.00	20:26																									
ZZZZZZ	5.00	20:31																									
ZZZZZZ	1.00	20:35																									
ZZZZZZ	1.00	20:40																									
ZZZZZZ	1.00	20:45																									
ZZZZZZ	1.00	20:50																									
CCV	1.00	20:55				X			X	X					X	X				X			X				
CCB	1.00	21:00				X			X	X					X	X				X			X				
CRI	1.00	21:05				X			X	X					X	X				X			X				
ICSA	1.00	21:09				X			X	X					X	X				X			X				
ICSAB	1.00	21:14				X			X	X					X	X				X			X				

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-008B-P6L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 100903

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	A10 5.89		50.00	U	100.0		P
Cadmium	1.79		(1.73) 5.00	U	(3.4) 100.0		P
Calcium	360690.00		377723.00		4.7		P
Lead	78.90		85.55		8.4		P
Magnesium	86745.92		85713.05		1.2		P
Potassium	11281.50		12974.25		15.0		P
Sodium	225322.30		219817.80		2.4		P

Comments: _____

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PREPARATION LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 100903

Method: P Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
GW03-008B-P6	10/10/2003	50.0	50.0
GW03-008B-P6\MS	10/10/2003	50.0	50.0
GW03-008B-P6\SD	10/10/2003	50.0	50.0
GW03-011A-P1	10/10/2003	50.0	50.0
GW03-010B-P6	10/10/2003	50.0	50.0
GW03-012B-P5	10/10/2003	50.0	50.0
LFB	10/10/2003	50.0	50.0
Method Blank	10/10/2003	50.0	50.0

Comments:

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-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 101003

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	14.97	74.8	14.22	71.1
Cadmium				10.0	10.34	103.4	10.36	103.6
Calcium				5000.0	5041.83	100.8	4979.28	99.6
Lead				6.0	6.85	114.2	7.98	133.0
Magnesium				5000.0	5052.99	101.1	5132.34	102.6
Potassium				5000.0	5359.20	107.2	5327.83	106.6
Sodium				5000.0	4788.89	95.8	5034.74	100.7

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 101003

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/2003 End Date: 10/16/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	13:01				X			X	X					X	X				X			X				
STD 1	1.00	13:06				X			X	X					X	X				X			X				
STD 2	1.00	13:10				X			X	X					X	X				X			X				
STD 3	1.00	13:15				X			X	X					X	X				X			X				
STD 3 VER	1.00	13:20				X			X	X					X	X				X			X				
ICV	1.00	13:25				X			X	X					X	X				X			X				
ICB	1.00	13:30				X			X	X					X	X				X			X				
CRI	1.00	13:35				X			X	X					X	X				X			X				
ICSA	1.00	13:39				X			X	X					X	X				X			X				
ICSAB	1.00	13:44				X			X	X					X	X				X			X				
CCV	1.00	13:50				X			X	X					X	X				X			X				
CCB	1.00	13:55				X			X	X					X	X				X			X				
ZZZZZZ	1.00	14:00																									
ZZZZZZ	1.00	14:05																									
ZZZZZZ	1.00	14:10																									
ZZZZZZ	1.00	14:15																									
ZZZZZZ	1.00	14:20																									
ZZZZZZ	1.00	14:24																									
ZZZZZZ	1.00	14:29																									
ZZZZZZ	1.00	14:34																									
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:44																									
CCV	1.00	14:50				X			X	X					X	X				X			X				
CCB	1.00	14:55				X			X	X					X	X				X			X				
ZZZZZZ	1.00	15:00																									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:09																									
ZZZZZZ	1.00	15:14																									
ZZZZZZ	5.00	15:19																									
ZZZZZZ	1.00	15:24																									
ZZZZZZ	1.00	15:29																									
ZZZZZZ	1.00	15:33																									
ZZZZZZ	1.00	15:38																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101003

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/2003 End Date: 10/16/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	15:43																									
CCV	1.00	15:49				X			X	X					X	X				X			X				
CCB	1.00	15:54				X			X	X					X	X				X			X				
ZZZZZZ	1.00	15:59																									
ZZZZZZ	1.00	16:04																									
Method Blank	1.00	16:09				X			X	X					X	X				X			X				
LFB	1.00	16:13				X			X	X					X	X				X			X				
ZZZZZZ	1.00	16:18																									
ZZZZZZ	5.00	16:23																									
ZZZZZZ	1.00	16:28																									
ZZZZZZ	1.00	16:33																									
ZZZZZZ	1.00	16:38																									
ZZZZZZ	1.00	16:42																									
CCV	1.00	16:49				X			X	X					X	X				X			X				
CCB	1.00	16:53				X			X	X					X	X				X			X				
ZZZZZZ	1.00	17:08																									
ZZZZZZ	5.00	17:13																									
ZZZZZZ	1.00	17:18																									
ZZZZZZ	1.00	17:22																									
ZZZZZZ	1.00	17:27																									
ZZZZZZ	1.00	17:32																									
ZZZZZZ	5.00	17:37																									
ZZZZZZ	1.00	17:42																									
ZZZZZZ	1.00	17:47																									
ZZZZZZ	1.00	17:51																									
CCV	1.00	17:58				X			X	X					X	X				X			X				
CCB	1.00	18:02				X			X	X					X	X				X			X				
ZZZZZZ	1.00	18:07																									
ZZZZZZ	1.00	18:12																									
ZZZZZZ	1.00	18:17																									
ZZZZZZ	1.00	18:22																									
ZZZZZZ	1.00	18:27																									
ZZZZZZ	1.00	18:31																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 101003

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 10/16/2003 End Date: 10/16/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	18:36																									
GW03-012A-P2	1.00	18:41				X			X	X					X	X				X							
GW03-012A-P2L	5.00	18:46				X			X	X					X	X				X							
GW03-012A-P2A	1.00	18:51				X			X	X					X	X				X							
CCV	1.00	18:57				X			X	X					X	X				X			X				
CCB	1.00	19:02				X			X	X					X	X				X			X				
EB1-10/10/03	1.00	19:07				X			X	X					X	X				X			X				
ZZZZZZ	1.00	19:12																									
ZZZZZZ	1.00	19:16																									
ZZZZZZ	1.00	19:21																									
ZZZZZZ	1.00	19:26																									
ZZZZZZ	1.00	19:31																									
ZZZZZZ	1.00	19:36																									
ZZZZZZ	1.00	19:41																									
ZZZZZZ	1.00	19:46																									
ZZZZZZ	1.00	19:50																									
CCV	1.00	19:57				X			X	X					X	X				X			X				
CCB	1.00	20:01				X			X	X					X	X				X			X				
ZZZZZZ	1.00	20:06																									
ZZZZZZ	1.00	20:11																									
ZZZZZZ	1.00	20:16																									
ZZZZZZ	1.00	20:21																									
ZZZZZZ	1.00	20:26																									
ZZZZZZ	5.00	20:31																									
ZZZZZZ	1.00	20:35																									
ZZZZZZ	1.00	20:40																									
ZZZZZZ	1.00	20:45																									
ZZZZZZ	1.00	20:50																									
CCV	1.00	20:55				X			X	X					X	X				X			X				
CCB	1.00	21:00				X			X	X					X	X				X			X				
* CRI	1.00	21:05				X			X	X					X	X				X			X				
ICSA	1.00	21:09				X			X	X					X	X				X			X				
ICSAB	1.00	21:14				X			X	X					X	X				X			X				

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-012A-P2L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101003

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.30		5.00	U	100.0		P
Calcium	166746.59		171556.09		2.9		P
Lead	6.27		30.00	U	100.0		P
Magnesium	42331.13		42680.10		0.8		P
Potassium	4523.70		3563.70		21.2		P
Sodium	657582.31		630355.00		4.1		P

Comments:

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PREPARATION LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101003

Method: P Prep Method:

Sample ID	Preparation Date	Initial Volume	Final Volume(mL)
GW03-012A-P2	10/15/2003	50.0	50.0
EB1-10/10/03	10/15/2003	50.0	50.0
LFB	10/15/2003	50.0	50.0
Method Blank	10/15/2003	50.0	50.0

Comments:

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-09A-P3L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 101303

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	12.98		50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	2524088.00		2703860.00		7.1		P
Lead	6.00	U	30.00	U			P
Magnesium	1216409.00		1222655.00		0.5		P
Potassium	204202.09		166788.50		18.3	E	P
Sodium	10563990.00		12082570.00		14.4	E	P

Comments:

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SAMPLE DATE 10/14/2003

SDG: 101403
Client Sample ID: GW03-013A-P2 GW03-013A-P2
Lab Sample ID: A3993303 A3993303MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
METHOD 300.0 - CHLORIDE	MG/L	85.70	815.9	500.0	146 *	73-114
METHOD 300.0 - SULFATE	MG/L	89.48	729.2	500.0	128 *	75-125
METHOD 415.1 - TOTAL ORGANIC CARBON	MG/L	0.781	17.90	20.00	86	54-131

2046/2452

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

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SBD=0.00,SED=0.00,ST=N1
SAMPLE DATE 09/30/2003

SDG: 093003
Client Sample ID: GW03-016A-P2 GW03-016A-P2
Lab Sample ID: A3940501 A3940501MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS METHOD 415.1 - TOTAL ORGANIC CARBON	MG/L	0.508	27.79	20.00	136 *	54-131

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

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A3B114671

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*****************************************************************
*                              SEQUENCE                         **
*****************************************************************
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.0-09-03-2 Thu Oct 09 10:55:24 2003

'os/ 'ial	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Ovr Rng	Remarks
1	RINSE	default	Sample	5	1.000	0	No	
2	ICV	default	Chk. 1	4	1.000	0	No	
3	ICB	default	Chk. 2	4	1.000	0	No	
4	936905	default	Sample	2	1.000	0	No	
5	939901	default	Sample	2	1.000	0	No	
6	939902	default	Sample	2	1.000	0	No	
7	939903	default	Sample	2	1.000	0	No	
8	951901	default	Sample	4	1.000	0	No	
9	955001	default	Sample	2	1.000	0	No	
10	955002	default	Sample	2	1.000	0	No	
11	955101	default	Sample	4	1.000	0	No	
12	955102	default	Sample	4	1.000	0	No	
13	956001	default	Sample	4	1.000	0	No	
14	CCV	default	Chk. 1	4	1.000	0	No	
15	CCB	default	Chk. 2	4	1.000	0	No	
16	956002	default	Sample	4	1.000	0	No	
17	956003	default	Sample	4	1.000	0	No	
18	956004	default	Sample	4	1.000	0	No	
19	956005	default	Sample	4	1.000	0	No	
20	956006	default	Sample	4	1.000	0	No	
21	956007	default	Sample	4	1.000	0	No	
22	956008	default	Sample	4	1.000	0	No	
23	940501	default	Sample	2	1.000	0	No	
24	940501 DUP	default	Sample	2	1.000	0	No	
25	940501 SPK	default	Sample	2	1.000	0	No	
26	CCV	default	Chk. 1	4	1.000	0	No	
27	CCB	default	Chk. 2	4	1.000	0	No	
28	940502	default	Sample	2	1.000	0	No	
29	940503	default	Sample	2	1.000	0	No	
30	940504	default	Sample	2	1.000	0	No	
31	940505	default	Sample	2	1.000	0	No	
32	941601	default	Sample	2	1.000	0	No	
33	941602	default	Sample	2	1.000	0	No	
34	941603	default	Sample	2	1.000	0	No	
35	941603 DUP	default	Sample	2	1.000	0	No	
36	941604	default	Sample	2	1.000	0	No	
37	941604 SPK	default	Sample	2	1.000	0	No	
38	CCV	default	Chk. 1	4	1.000	0	No	
39	CCB	default	Chk. 2	4	1.000	0	No	
40	941605	default	Sample	2	1.000	0	No	
41	941606	default	Sample	2	1.000	0	No	
42	941701 1:2	default	Sample	2	1.000	0	No	
43	941702 1:2 P	default	Sample	2	1.000	0	No	
44	943601	default	Sample	4	1.000	0	No	

Soln – CHA22H
I-195-D
QC Lot# P091576
A=39.0
R=32.5–45.1

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LBM
13 Oct 2003

STL Buffalo

Method 310.1
Start 09:00
End 11:42

PC-TitratION PLUS

Report Date: 10/13/2003
Report Time: 11:45 AM

Run Number 368

Order Number 20031013-2

Soln's
4-78-C
CHA-32-C

SampleID	RunDate	RunTime	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	F-ppm	
icv@250ppm	10/13/2003	9:00 AM	.00	8.84	4.88	229.57	219.80	9.76	.00	.00	92%
icb	10/13/2003	9:04 AM	.00	5.71	.00	.86	.86	.00	.00	.00	<5.0
a3973602	10/13/2003	9:08 AM	.00	4.91	.00	.68	.68	.00	.00	.00	
a3978502	10/13/2003	9:12 AM	.00	5.62	.00	1.27	1.27	.00	.00	.00	
a3978505	10/13/2003	9:19 AM	.00	7.71	.00	72.50	72.50	.00	.00	.00	
a3978507	10/13/2003	9:26 AM	.00	7.72	.00	81.64	81.64	.00	.00	.00	
a3970505	10/13/2003	9:33 AM	.00	7.57	.00	187.80	187.80	.00	.00	.00	
a3971701	10/13/2003	9:39 AM	.00	7.05	.00	257.54	257.54	.00	.00	.00	
a3971702	10/13/2003	9:46 AM	.00	7.03	.00	244.88	244.88	.00	.00	.00	
a3971703	10/13/2003	9:53 AM	.00	7.40	.00	255.04	255.04	.00	.00	.00	
a3971704	10/13/2003	10:00 AM	.00	7.05	.00	222.76	222.76	.00	.00	.00	
a3971705	10/13/2003	10:07 AM	.00	6.80	.00	181.00	181.00	.00	.00	.00	
ccv@250ppm	10/13/2003	10:15 AM	.00	8.92	3.92	223.68	215.84	7.84	.00	.00	89%
ccb	10/13/2003	10:20 AM	.00	5.82	.00	.14	.14	.00	.00	.00	<5.0
a3976701	10/13/2003	10:27 AM	.00	7.04	.00	251.40	251.40	.00	.00	.00	
a3976702	10/13/2003	10:34 AM	.00	7.00	.00	370.65	370.65	.00	.00	.00	
a3976703	10/13/2003	10:41 AM	.00	7.00	.00	214.82	214.82	.00	.00	.00	
a3976704	10/13/2003	10:48 AM	.00	6.98	.00	284.80	284.80	.00	.00	.00	
a3977101	10/13/2003	10:54 AM	.00	7.89	.00	100.82	100.82	.00	.00	.00	RPD = $\frac{11.72}{94.96} \times 100 = 12.34$
a3977101md	10/13/2003	11:02 AM	.00	7.90	.00	89.10	89.10	.00	.00	.00	
a3977101spk	10/13/2003	11:09 AM	.00	8.69	4.81	189.26	179.63	9.63	.00	.00	Spk@125 = 71%

2135/2603

PC-TitratION PLUS by Man-Tech Associates, Inc.

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39	Chk	SDev	-	-	-	-	-	-	16.78	-	-	-	-	-	
39	Chk	%RSD	-	-	-	-	-	-	4.98	-	-	-	-	-	
40	Spl	1	17Oct2003	10:56	555913	121069	144.329	140.1251	1838	1.427	1.3858	-	-	-	9704
40	Spl	2	17Oct2003	11:06	555914	112974	134.394	130.4792	1745	1.313	1.2750	-	-	-	
40	Spl	3	17Oct2003	11:15	555915	115071	136.967	132.9780	1929	1.539	1.4942	-	-	-	
40	Spl	4	17Oct2003	11:25	555916	108851	129.333	125.5664	1916	1.523	1.4788	-	-	-	02
40	Spl	Avg	-	-	-	114491	136.256	132.2872	1857	1.451	1.4084	-	-	-	
40	Spl	SDev	-	-	-	5089.77	-	-	84.79	-	-	-	-	-	
40	Spl	%RSD	-	-	-	4.45	-	-	4.57	-	-	-	-	-	
41	Spl	1	17Oct2003	11:35	555917	91743	108.336	105.1808	1446	0.946	0.9187	-	-	-	
41	Spl	2	17Oct2003	11:45	555918	91292	107.783	104.6434	1536	1.057	1.0260	-	-	-	
41	Spl	3	17Oct2003	11:55	555919	86695	102.141	99.1657	1534	1.054	1.0236	-	-	-	
41	Spl	4	17Oct2003	12:05	555920	84385	99.306	96.4132	1500	1.013	0.9831	-	-	-	03
41	Spl	Avg	-	-	-	88528	104.391	101.3508	1504	1.017	0.9878	-	-	-	
41	Spl	SDev	-	-	-	3582.38	-	-	42.05	-	-	-	-	-	
41	Spl	%RSD	-	-	-	4.05	-	-	2.80	-	-	-	-	-	
42	Spl	1	17Oct2003	12:15	555921	45801	51.950	50.4372	1850	1.442	1.4001	-	-	-	
42	Spl	2	17Oct2003	12:25	555922	42749	48.205	46.8005	1883	1.483	1.4394	-	-	-	
42	Spl	3	17Oct2003	12:34	555923	43593	49.240	47.8062	1910	1.516	1.4716	-	-	-	
42	Spl	4	17Oct2003	12:44	555924	42260	47.604	46.2178	1927	1.537	1.4919	-	-	-	04
42	Spl	Avg	-	-	-	43600	49.250	47.8154	1892	1.494	1.4507	-	-	-	
42	Spl	SDev	-	-	-	1566.76	-	-	33.63	-	-	-	-	-	
42	Spl	%RSD	-	-	-	3.59	-	-	1.78	-	-	-	-	-	
43	Spl	1	17Oct2003	12:54	555925	47599	54.157	52.5797	865	0.233	0.2264	-	-	-	
43	Spl	2	17Oct2003	13:04	555926	46977	53.394	51.8385	880	0.252	0.2443	-	-	-	
43	Spl	3	17Oct2003	13:14	555927	46924	53.329	51.7754	962	0.352	0.3420	-	-	-	
43	Spl	4	17Oct2003	13:24	555928	45088	51.075	49.5876	895	0.270	0.2621	-	-	-	05
43	Spl	Avg	-	-	-	46647	52.989	51.4453	900	0.277	0.2687	-	-	-	
43	Spl	SDev	-	-	-	1083.58	-	-	42.79	-	-	-	-	-	
43	Spl	%RSD	-	-	-	2.32	-	-	4.75	-	-	-	-	-	
44	Spl	1	17Oct2003	13:34	555929	48675	55.478	53.8618	18215	21.527	20.9003	-	-	-	
44	Spl	2	17Oct2003	13:44	555930	47724	54.310	52.7286	18840	22.294	21.6451	-	-	-	9705
44	Spl	Avg	-	-	-	48199	54.894	53.2952	18527	21.911	21.2727	-	-	-	
44	Spl	SDev	-	-	-	672.46	-	-	441.94	-	-	-	-	-	01
44	Spl	%RSD	-	-	-	1.40	-	-	2.39	-	-	-	-	-	
45	Spl	1	17Oct2003	13:54	555931	27427	29.399	28.5431	1907	1.512	1.4680	-	-	-	
45	Spl	2	17Oct2003	14:04	555932	26840	28.679	27.8437	1760	1.332	1.2929	-	-	-	
45	Spl	Avg	-	-	-	27133	29.039	28.1934	1833	1.422	1.3804	-	-	-	
45	Spl	SDev	-	-	-	415.07	-	-	103.94	-	-	-	-	-	02
45	Spl	%RSD	-	-	-	1.53	-	-	5.67	-	-	-	-	-	
46	Spl	1	17Oct2003	14:14	555933	61145	70.782	68.7208	1986	1.609	1.5622	-	-	-	
46	Spl	2	17Oct2003	14:24	555934	59287	68.502	66.5069	1891	1.492	1.4490	-	-	-	
46	Spl	Avg	-	-	-	60216	69.642	67.6138	1938	1.551	1.5056	-	-	-	
46	Spl	SDev	-	-	-	1313.80	-	-	67.18	-	-	-	-	-	03
46	Spl	%RSD	-	-	-	2.18	-	-	3.47	-	-	-	-	-	
47	Spl	1	17Oct2003	14:34	555935	62151	72.017	69.9196	2023	1.654	1.6063	-	-	-	
47	Spl	2	17Oct2003	14:44	555936	59932	69.294	67.2754	2028	1.661	1.6122	-	-	-	
47	Spl	Avg	-	-	-	61041	70.655	68.5975	2025	1.658	1.6092	-	-	-	03DUP
47	Spl	SDev	-	-	-	1569.07	-	-	3.54	-	-	-	-	-	RPD=6.7
47	Spl	%RSD	-	-	-	2.57	-	-	0.17	-	-	-	-	-	
48	Spl	1	17Oct2003	14:55	555937	40127	44.986	43.6762	2721	2.511	2.4380	-	-	-	
48	Spl	2	17Oct2003	15:04	555938	37864	42.209	40.9796	2493	2.231	2.1663	-	-	-	
48	Spl	Avg	-	-	-	38995	43.598	42.3279	2607	2.371	2.3021	-	-	-	05
48	Spl	SDev	-	-	-	1600.18	-	-	161.22	-	-	-	-	-	
48	Spl	%RSD	-	-	-	4.10	-	-	6.18	-	-	-	-	-	

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49	Spl	1	17Oct2003	15:15	555939	39061	43.678	42.4060	10955	12.617	12.2494	-	-	-	97105
49	Spl	2	17Oct2003	15:24	555940	38741	43.285	42.0247	11063	12.749	12.3781	-	-	-	85%
49	Spl	Avg	-	-	-	38901	43.482	42.2153	11009	12.683	12.3138	-	-	-	50%
49	Spl	SDev	-	-	-	226.27	-	-	76.37	-	-	-	-	-	
49	Spl	%RSD	-	-	-	0.58	-	-	0.69	-	-	-	-	-	
50	Chk1	1	17Oct2003	15:35	555941	-	-	-	34096	40.917	39.7248	-	-	-	
50	Chk1	2	17Oct2003	15:45	555942	-	-	-	34034	40.840	39.6510	-	-	-	
50	Chk1	3	17Oct2003	15:54	555943	-	-	-	33397	40.059	38.8919	-	-	-	
50	Chk1	4	17Oct2003	16:04	555944	-	-	-	34337	41.212	40.0120	-	-	-	CCV
50	Chk	Avg	-	-	-	-	-	-	33966	40.757	39.5699	-	-	-	
50	Chk	SDev	-	-	-	-	-	-	401.22	-	-	-	-	-	10%
50	Chk	%RSD	-	-	-	-	-	-	1.18	-	-	-	-	-	
51	Chk2	1	17Oct2003	16:14	555945	-	-	-	346	-0.506	-0.4910	-	-	-	
51	Chk2	2	17Oct2003	16:24	555946	-	-	-	346	-0.506	-0.4910	-	-	-	
51	Chk2	3	17Oct2003	16:34	555947	-	-	-	332	-0.523	-0.5077	-	-	-	
51	Chk2	4	17Oct2003	16:44	555948	-	-	-	309	-0.551	-0.5351	-	-	-	CCB
51	Chk	Avg	-	-	-	-	-	-	333	-0.521	-0.5062	-	-	-	
51	Chk	SDev	-	-	-	-	-	-	17.46	-	-	-	-	-	
51	Chk	%RSD	-	-	-	-	-	-	5.24	-	-	-	-	-	

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****
SEQUENCE **
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L603-2 Thu Oct 16 17:38:34 2003

s/ al	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Ovr Rng	Remarks
L	RINSE	default	Sample	5	1.000	0	No	
2	ICV	default	Chk. 1	4	1.000	0	No	
3	ICB	default	Chk. 2	4	1.000	0	No	
4	961001 1:100	default	Sample	2	1.000	0	No	
5	963201	default	Sample	4	1.000	0	No	
6	969703	default	Sample	2	1.000	0	No	
7	969704	default	Sample	2	1.000	0	No	
8	969801 1:5P	default	Sample	4	1.000	0	No	
9	969901	default	Sample	2	1.000	0	No	
0	969902	default	Sample	2	1.000	0	No	
L	969903	default	Sample	2	1.000	0	No	
2	969904	default	Sample	2	1.000	0	No	
3	969905	default	Sample	2	1.000	0	No	
4	CCV	default	Chk. 1	4	1.000	0	No	
5	CCB	default	Chk. 2	4	1.000	0	No	
6	969906	default	Sample	2	1.000	0	No	
7	969907	default	Sample	2	1.000	0	No	
8	969908	default	Sample	2	1.000	0	No	
9	969909	default	Sample	2	1.000	0	No	
0	969910	default	Sample	2	1.000	0	No	
L	969911	default	Sample	2	1.000	0	No	
2	969912	default	Sample	2	1.000	0	No	
3	969912 DUP	default	Sample	2	1.000	0	No	
4	969913	default	Sample	2	1.000	0	No	
5	969913 SPK	default	Sample	2	1.000	0	No	
6	CCV	default	Chk. 1	4	1.000	0	No	
7	CCB	default	Chk. 2	4	1.000	0	No	
8	969914	default	Sample	2	1.000	0	No	
9	969915	default	Sample	2	1.000	0	No	
0	969916	default	Sample	2	1.000	0	No	
L	969917	default	Sample	2	1.000	0	No	
2	969918	default	Sample	2	1.000	0	No	
3	969919	default	Sample	2	1.000	0	No	
4	969920	default	Sample	2	1.000	0	No	
5	969921	default	Sample	2	1.000	0	No	
6	969922	default	Sample	2	1.000	0	No	
7	970401	default	Sample	4	1.000	0	No	
8	CCV	default	Chk. 1	4	1.000	0	No	
9	CCB	default	Chk. 2	4	1.000	0	No	
0	970402	default	Sample	4	1.000	0	No	
L	970403	default	Sample	4	1.000	0	No	
2	970404	default	Sample	4	1.000	0	No	
3	970405	default	Sample	4	1.000	0	No	
4	970501	default	Sample	2	1.000	0	No	

ABB11846

1-195-D
LOT #P091-516
cert. = 39
Limits = 32.5 → 45.1

1-197-B
1-198-B
CHA-22-1+

STL BUFFALO
TPC /445.1 9060
SS Date: 10/14/03
WMW Date: 10/20/03

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****
SEQUENCE **
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1603-2 Thu Oct 16 17:38:34 2003

s/ al	Sample Name	Method	Run Type	# Rep	Vol (mL)	# Blk	Ovr Rng	Remarks
5	970502	default	Sample	2	1.000	0	No	
6	970503	default	Sample	2	1.000	0	No	
7	970503 DUP	default	Sample	2	1.000	0	No	
8	970505	default	Sample	2	1.000	0	No	
9	970505 SPK	default	Sample	2	1.000	0	No	
0	CCV	default	Chk. 1	4	1.000	0	No	
1	CCB	default	Chk. 2	4	1.000	0	No	
2		default	Chk. 1	2	1.000	0	No	
3		default	Chk. 2	4	1.000	0	No	

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LBM
13Oct2003

STL Buffalo

Method 310.1
Start 09:00
End 11:42

PC-TitratION PLUS

Report Date: 10/13/2003 **Run Number** **Order Number**
Report Time: 11:45 AM **368** **20031013-2**

Soln's
4-78-C
CHA-32-C

SampleID	RunDate	RunTime	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	F-ppm	
icv@250ppm	10/13/2003	9:00 AM	.00	8.84	4.88	229.57	219.80	9.76	.00	.00	92%
icb	10/13/2003	9:04 AM	.00	5.71	.00	.86	.86	.00	.00	.00	<5.0
a3973602	10/13/2003	9:08 AM	.00	4.91	.00	.68	.68	.00	.00	.00	
a3978502	10/13/2003	9:12 AM	.00	5.62	.00	1.27	1.27	.00	.00	.00	
a3978505	10/13/2003	9:19 AM	.00	7.71	.00	72.50	72.50	.00	.00	.00	
a3978507	10/13/2003	9:26 AM	.00	7.72	.00	81.64	81.64	.00	.00	.00	
a3970505	10/13/2003	9:33 AM	.00	7.57	.00	187.80	187.80	.00	.00	.00	
a3971701	10/13/2003	9:39 AM	.00	7.05	.00	257.54	257.54	.00	.00	.00	
a3971702	10/13/2003	9:46 AM	.00	7.03	.00	244.88	244.88	.00	.00	.00	
a3971703	10/13/2003	9:53 AM	.00	7.40	.00	255.04	255.04	.00	.00	.00	
a3971704	10/13/2003	10:00 AM	.00	7.05	.00	222.76	222.76	.00	.00	.00	
a3971705	10/13/2003	10:07 AM	.00	6.80	.00	181.00	181.00	.00	.00	.00	
ccv@250ppm	10/13/2003	10:15 AM	.00	8.92	3.92	223.68	215.84	7.84	.00	.00	89%
ccb	10/13/2003	10:20 AM	.00	5.82	.00	.14	.14	.00	.00	.00	<5.0
a3976701	10/13/2003	10:27 AM	.00	7.04	.00	251.40	251.40	.00	.00	.00	
a3976702	10/13/2003	10:34 AM	.00	7.00	.00	370.65	370.65	.00	.00	.00	
a3976703	10/13/2003	10:41 AM	.00	7.00	.00	214.82	214.82	.00	.00	.00	
a3976704	10/13/2003	10:48 AM	.00	6.98	.00	284.80	284.80	.00	.00	.00	
a3977101	10/13/2003	10:54 AM	.00	7.89	.00	100.82	100.82	.00	.00	.00	RPD = $\frac{11.72}{94.96} \times 100 = 12.34$
a3977101md	10/13/2003	11:02 AM	.00	7.90	.00	89.10	89.10	.00	.00	.00	
a3977101spk	10/13/2003	11:09 AM	.00	8.69	4.81	189.26	179.63	9.63	.00	.00	Spk@125 = 71%

2274/2715

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LBM
13 Oct 2003

STL Buffalo

Method 310.1
Start 09:00
End 11:42

PC-TitratION PLUS

Report Date: 10/13/2003 **Run Number** **Order Number**
Report Time: 11:45 AM **368** **20031013-2**

Soln's
4-78-C
CHA-32-C

SampleID	RunDate	RunTime	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	F-ppm	
lcv@250ppm	10/13/2003	9:00 AM	.00	8.84	4.88	229.57	219.80	9.76	.00	.00	92%
lcb	10/13/2003	9:04 AM	.00	5.71	.00	.86	.86	.00	.00	.00	<5.0
a3973602	10/13/2003	9:08 AM	.00	4.91	.00	.68	.68	.00	.00	.00	
a3978502	10/13/2003	9:12 AM	.00	5.62	.00	1.27	1.27	.00	.00	.00	
a3978505	10/13/2003	9:19 AM	.00	7.71	.00	72.50	72.50	.00	.00	.00	
a3978507	10/13/2003	9:26 AM	.00	7.72	.00	81.64	81.64	.00	.00	.00	
a3970505	10/13/2003	9:33 AM	.00	7.57	.00	187.80	187.80	.00	.00	.00	
a3971701	10/13/2003	9:39 AM	.00	7.05	.00	257.54	257.54	.00	.00	.00	
a3971702	10/13/2003	9:46 AM	.00	7.03	.00	244.88	244.88	.00	.00	.00	
a3971703	10/13/2003	9:53 AM	.00	7.40	.00	255.04	255.04	.00	.00	.00	
a3971704	10/13/2003	10:00 AM	.00	7.05	.00	222.76	222.76	.00	.00	.00	
a3971705	10/13/2003	10:07 AM	.00	6.80	.00	181.00	181.00	.00	.00	.00	
ccv@250ppm	10/13/2003	10:15 AM	.00	8.92	3.92	223.68	215.84	7.84	.00	.00	89%
ccb	10/13/2003	10:20 AM	.00	5.82	.00	.14	.14	.00	.00	.00	<5.0
a3976701	10/13/2003	10:27 AM	.00	7.04	.00	251.40	251.40	.00	.00	.00	
a3976702	10/13/2003	10:34 AM	.00	7.00	.00	370.65	370.65	.00	.00	.00	
a3976703	10/13/2003	10:41 AM	.00	7.00	.00	214.82	214.82	.00	.00	.00	
a3976704	10/13/2003	10:48 AM	.00	6.98	.00	284.80	284.80	.00	.00	.00	
a3977101	10/13/2003	10:54 AM	.00	7.89	.00	100.82	100.82	.00	.00	.00	RPD = $\frac{11.72}{94.96} \times 100 = 12.34$
a3977101md	10/13/2003	11:02 AM	.00	7.90	.00	89.10	89.10	.00	.00	.00	
a3977101spk	10/13/2003	11:09 AM	.00	8.69	4.81	189.26	179.63	9.63	.00	.00	Spk@125 = 71%

PC-TitratION PLUS by Man-Tech Associates, Inc.

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1108/1235

Report Date: 10/13/2003
Report Time: 11:53 AM

Run Number
368

Order Number
20031013-2

SampleID	RunDate	RunTime	cond (uS)	pH	palk-ppm	talk-ppm	bcarb-ppm	carb-ppm	hydr-ppm	F-ppm	
a3977102	10/13/2003	11:18 AM	.00	8.04	.00	214.66	214.66	.00	.00	.00	
a3982501	10/13/2003	11:25 AM	.00	7.08	.00	267.39	267.39	.00	.00	.00	
a3982503	10/13/2003	11:29 AM	.00	4.91	.00	.54	.54	.00	.00	.00	
ccv1	10/13/2003	11:37 AM	.00	9.89	70.73	226.56	85.11	141.46	.00	.00	91%
ccb1	10/13/2003	11:42 AM	.00	5.79	.00	-.59	-.59	.00	.00	.00	<5.0

C-TitratION PLUS by Man-Tech Associates, Inc.

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1109/1235

O.K
Did sample 982503 @ DKL CAS 12/10/03
Did not sample
reanalyse confirms
Reanalyzed on 11/24/03

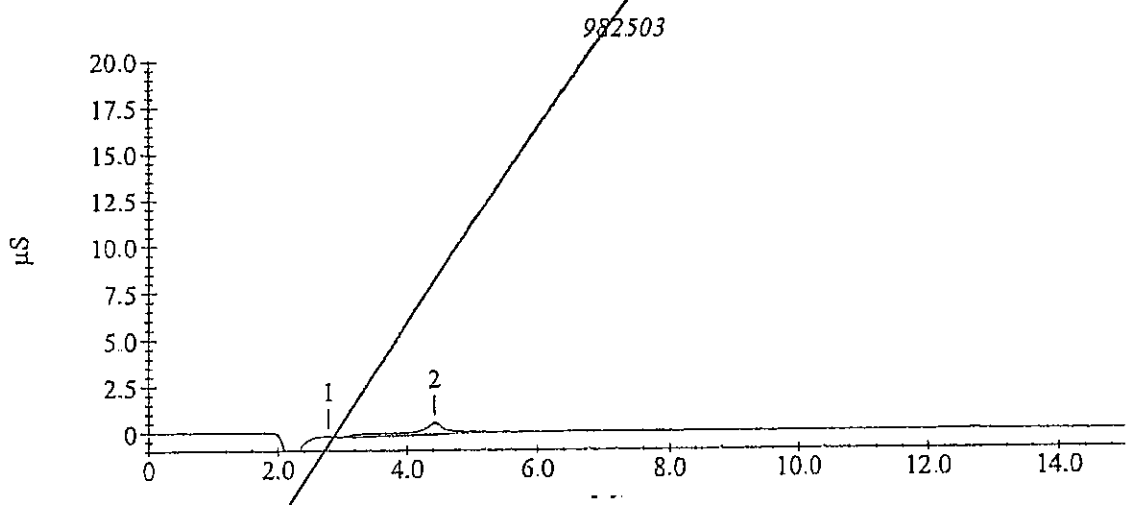
Sample Analysis Report

Sample Name : 982503
Data File Name : C:\PeakNet\data\2003\OCT 2003\10-14-03-1_063.DXD

Method File Name : c:\peaknet\method\inst#1 fl,cl,br,no3,so4.met
Date Time Collected : 10/15/03 4:23:18 AM
System Operator : GH

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mG/L)	Peak Area	Peak Height
1	fluoride	2.77	0.02	11410	914
2	chloride	4.42	0.20	259350	6191



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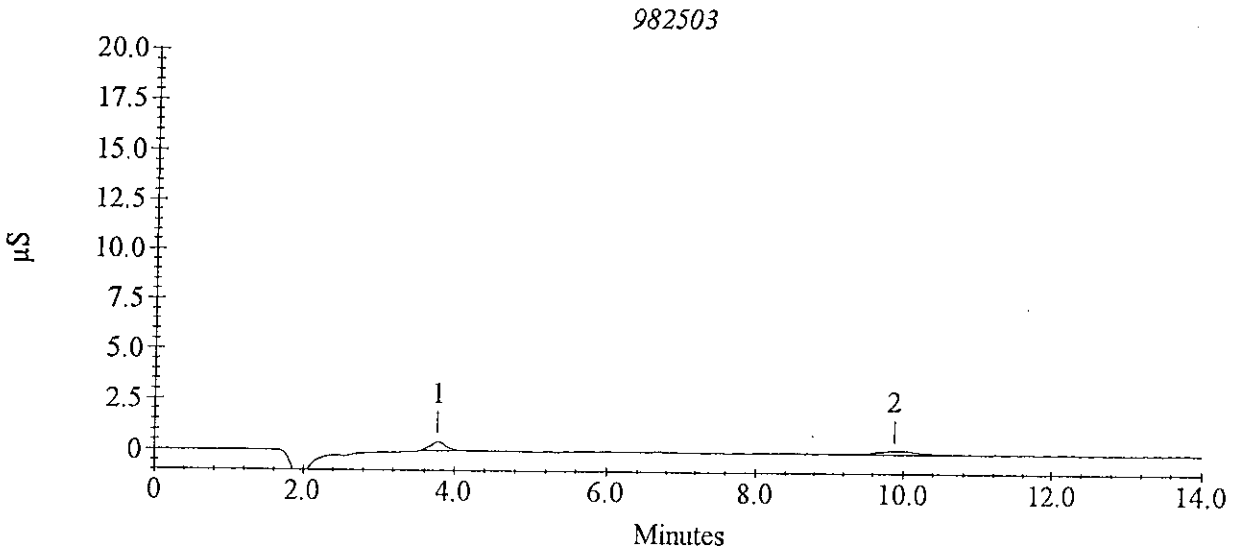
Sample Analysis Report

Sample Name : 982503
Data File Name : C:\PEAKNET\DATA\2003\NOV 2003\11-24-03_2_079.DXD

Method File Name : c:\peaknet\method\inst#2 111003.met
Date Time Collected : 11/25/03 9:13:46 AM
System Operator : SS

Peak Information : All Peaks

Peak #	Component Name	Retention Time	Amount (mG/L)	Peak Area	Peak Height
1	chloride	3.77	0.32	65182	4336
2	sulfate	9.88	0.33	77272	1863



Re-analysis 11/24/03 SLM

STL BUFFALO

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Client Sample No.

GW03-011C-P7

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 092503

Matrix (soil/water): WATER Lab Sample ID: A3929602

% Solids: 0.0 Date Samp/Recv: 09/25/2003 09/26/2003

Parameter Name	Units of Measure	Result	C	Q	M	Method Number	Analyzed Date
Bicarbonate Alkalinity	MG/L	364				310.1	10/02/2003
Chloride	MG/L	35.2				300.0	10/03/2003
Sulfate	MG/L	116				300.0	10/04/2003
Total Alkalinity	MG/L	364				310.1	10/02/2003
Total Dissolved Solids	MG/L	612				160.1	09/29/2003
Total Hardness *	MG/L	513 ~~2.0~~	~~U~~			~~130.2~~	~~10/03/2003~~
Total Organic Carbon	MG/L	1.8				415.1	10/07/2003
Total Suspended Solids	MG/L	4.0	U			160.2	09/29/2003

Comments:

* Hardness results obtained by calculating using calcium and magnesium concentrations from the metals analysis.

$$(87400 \times 2.497) + (171700 \times 4.118) = 513$$

12/19/07

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MTL-ACTS

RESULTS:

Sample #	(5103)269-0014 GW03 – 011C – P8	(5103)269-0015 GW03 – 011C – P7
Total Plate Count	610 cfu/mL	410 cfu/mL
Total Coliform	< 20/100 mL	< 20/100 mL

Sample #	(5103)269-0016 GW03 – 011C – P7MD	(5103)269-0017 GW03 – 011B – P4
Total Plate Count	1,000 cfu/mL	2,000 cfu/mL
Total Coliform	< 20/100 mL	< 20/100 mL

Total Coliform results are reported as colonies per 100 milliliters.
< = less than
est. = Refers to actual plate counts not in the range of 25 to 250 colonies. When these counts are performed on diluted samples, the final count may appear to be within this range, when in actuality it was not.
cfu = colony forming units
ELAP ID #10247
mL = milliliter

Date sampled: 9/25/03
Time sampled: 16:05pm; 13:30pm; 14:10pm
Date Received: 9/26/03
Time Received: 10:11am
Received temperature: 7.9°C
Residual chlorine: negative
Date analyzed: ~~9/24/03~~ 9/26/03 AEH 10/1/03
Time analyzed/Analyst: 10:30am – MAS/JPB

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MTL-ACTS

RESULTS:

Sample #	(5103)283-0023 GW03-009A-P2		(5103)283-0025 GW03-010A-P1	
Total Plate Count	170 cfu/mL	J	140 cfu/mL	J
Total Coliform	< 20/100 mL	UJ	< 20/100 mL	UJ

Sample #	(5103)283-0026 GW03-012B-P6	
Total Plate Count	670 cfu/mL	J
Total Coliform	< 20/100 mL	UJ

6 12/10/03

Total Coliform results are reported as colonies per 100 milliliters.
< = less than
est. = Refers to actual plate counts not in the range of 25 to 250 colonies. When these counts are performed on diluted samples, the final count may appear to be within this range, when in actuality it was not.
cfu = colony forming units
ELAP ID #10247
mL = milliliter

Date sampled: 10/9/03
Time sampled: 17:20pm; 17:15pm; 18:45pm
Date Received: 10/10/03
Time Received: 10:45am
Received temperature: 11.2°C
Residual chlorine: negative
Date analyzed: 10/10/03
Time analyzed/Analyst: 1:00pm – PJA/JPB

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~~1868/1880~~
SCM 12/19/03

MTL-ACTS

SEVERN TRENT LABORATORIES, INC.
Technical Report: **(5103)282-0034**
October 13, 2003

RESULTS:

Sample #	(5103)282-0034 GW03-013B-P4	(5103)282-0035 GW03-013A-P1
Total Plate Count	2,200 cfu/mL J	2,400 cfu/mL J
Total Coliform	< 20/100 mL UJ	< 20/100 mL UJ

Sample #	(5103)282-0036 GW03-013C-P7	(5103)282-0037 GW03-008A-P2
Total Plate Count	230,000 cfu/mL J	67 cfu/mL J
Total Coliform	< 20/100 mL UJ	< 20/100 mL UJ

Sample #	(5103)282-0038 GW03-008A-P3
Total Plate Count	360 cfu/mL J
Total Coliform	< 20/100 mL UJ

Total Coliform results are reported as colonies per 100 milliliters.
< = less than
est. = Refers to actual plate counts not in the range of 25 to 250 colonies. When these counts are performed on diluted samples, the final count may appear to be within this range, when in actuality it was not.
cfu = colony forming units
ELAP ID #10247
mL = milliliter

Date sampled: 10/8/03
Time sampled: 17:15pm; 14:15pm; 16:30pm; 17:40pm; 17:50pm
Date Received: 10/9/03
Time Received: 10:31am
Received temperature: 14.0°C
Residual chlorine: negative
Date analyzed: 10/9/03
Time analyzed/Analyst: 11:00am – MAS/PJA

11/7/04

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SAMPLE DATE 10/14/2003

SDG: 101403
Client Sample ID: GW03-013A-P2 GW03-013A-P2
Lab Sample ID: A3993303 A3993303MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
METHOD 300.0 - CHLORIDE	MG/L	85.70	815.9	500.0	146 *	73-114
METHOD 300.0 - SULFATE	MG/L	89.48	729.2	500.0	128 *	75-125
METHOD 415.1 - TOTAL ORGANIC CARBON	MG/L	0.781	17.90	20.00	86	54-131

2046/2452

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

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PROJECT NARRATIVE
H3J160120

The results reported herein are applicable to the samples submitted for analysis only.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

For sample GW03-012A-P3 the recovery of internal standard 13C-2,3,7,8-TCDD was 30%, which is outside the lower acceptance level of 40%. The minimum required signal-to-noise ratio was present, and the target estimated detection limit for associated analyte was met. The results are reported in accordance with the standard operating procedure. When properly applied, isotope dilution techniques produce results that are independent of internal standard recovery.

The 2,3,7,8-TCDF ion ratio was outside of acceptance limits for shift standard f031105s1. The 2,3,7,8-TCDF ion ratio for the standard was 95% and the acceptance limits are 65% to 89%. There is no impact on the validity of the data since the only analyte requested was 2,3,7,8-TCDD.

The method requires the use of an isomer specific column whenever 2,3,7,8-TCDD is detected in a sample. Since 2,3,7,8-TCDD was not detected in these samples, the analysis on a non-isomer specific DB-225 column is reported.

STL Knoxville maintains the following certifications, approvals and accreditations: Arkansas DEQ Cert. # 03-049-0, California DHS ELAP Cert. #2423, Colorado DPHE, Connecticut DPH Cert. #PH-0223, Florida DOH Cert. #E87177, Georgia DNR Cert. #906, Hawaii DOH, Illinois EPA Cert. # 000687, Indiana DOH Cert. #C-TN-02, Kansas DHE Cert. # E-10349, Kentucky DEP Lab ID #90101, Louisiana DEQ Cert. #03079, Louisiana DOHH Cert. #LA030024, Maryland DHMH Cert. #277, Massachusetts DEP Cert. #M-TN009, Michigan DEQ Lab ID #9933, New Jersey DEP Cert. #TN001, New York DOH Lab #10781, North Carolina DPH Lab ID #21705, North Carolina DEHNR Cert. #64, Oklahoma DEQ ID #9415, Pennsylvania DEP Cert. # 68-576, South Carolina DHEC Lab ID #84001001, Tennessee DOH Lab ID #02014, Utah DOH Cert. #QUAN3, Virginia DGS Lab ID #00165, Washington DOE Lab #C120, Wisconsin DNR Lab ID #998044300, US Army Corps of Engineers, Naval Facilities Engineering Service Center, US EPA Perchlorate Approval and USDA Soil Permit #S-46424. This list of approvals is subject to change and does not imply that laboratory certification is available for all parameters reported in this environmental sample data report.

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STL BUFFALO

Client Sample ID: GW03-012A-P3

Trace Level Organic Compounds

Lot-Sample #...: H3J160120-001 Work Order #...: F2MXJ1AA Matrix.....: WATER
Date Sampled...: 10/15/03 Date Received..: 10/16/03
Prep Date.....: 10/22/03 Analysis Date..: 11/05/03
Prep Batch #...: 3295240
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND UJ	9.1	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	30 *	(40 - 135)

NOTE(S):

* Surrogate recovery is outside stated control limits.

11/24/03

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BROOKS RAND, LLC
3958 6th Avenue, NW Seattle, WA 98107 U.S.A. 206.632.6206

QUALITY ASSURANCE REPORT

Date:	December 4, 2003
Batch:	03-626
Tracking:	03BR683 & 03BR708
Project:	LM004 & STL005
Matrix:	Water
From:	Frank McFarland; QA Manager

The following is a quality assurance review of the **monomethyl mercury (MMHg)** analysis of the aforementioned batch of **15** samples. The analysis was performed following EPA and/or Brooks Rand, LLC (BRL) guidelines at the BRL Laboratory in Seattle, Washington. Comments that follow refer to BRL's ability to meet or exceed quality control criteria outlined in the BRL Comprehensive Quality Assurance Plan (cQAP), rev. #015; (04/03). Qualifiers utilized by BRL in this review are derived in part from the USEPA Contract Laboratory Program Statement of Work for Inorganic Analyses, Document Number ILM03.0, Exhibit B, Section III, pg. B-18 and/or the Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, USEPA, July 2002.

1 SAMPLE RECEIPT / PRESERVATION / HOLDING TIME– Acceptable

The cap of the bottle containing sample **03BR708-06** was broken upon receipt and some of the sample had leaked in the "clean" bag containing the sample. The sample custodian immediately transferred the remaining sample to clean, intact bottle. The result for this sample was below the MDL indicating that the sample had not become contaminated. The result for the sample has been assigned the laboratory data qualifier "H" to account for the possibility that methyl mercury was lost from the sample since it wasn't sealed properly.

All criteria were met for the other samples and no further qualification of the data was required. Refer to the Case Narrative for further explanation.

2 SAMPLE PREPARATION / DIGESTION / DISTILLATION– Acceptable

All criteria were met for the other samples and no qualification of the data was required. Refer to the Case Narrative for further explanation.

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3 CALIBRATION – Acceptable

1/7/04

The samples were analyzed for MMHg utilizing aqueous phase ethylation, Tenax trap collection, GC separation, isothermal decomposition, and cold-vapor atomic-fluorescence spectrophotometric (CVAFS) detection on 12/03/03. The criteria for the calibration are average response factor RSD≤15% and recovery of low standard = 65-135%. A calibration performed on 12/01/03 was validated and used for this analytical sequence. The **RSD** for this calibration was **6.2%** and low standard **recovery = 113.5%**. The calibration met all criteria and no qualification of the data was required.

4 ONGOING PRECISION and RECOVERY – Acceptable

Ongoing precision and recovery (OPR) is required at the beginning and the end of each analytical sequence. Recovery criterion is 67-133% recovery. All of the OPR standards met the recovery criteria. On this basis, no qualification of the data was required.

In addition, a standard (03-337-02 Hg) from a source independent from the calibration standards was analyzed with the batch as a check of system performance. Recovery criterion is 67-133% recovery. The recovery of the independent standard was **108.5%**, which met the acceptance criterion. On this basis, no qualification of the data was required.

5 QUALITY CONTROL SAMPLES (QCS) – Acceptable

Laboratory fortified blanks (LFB) were prepared and analyzed with the samples to monitor the performance of the preparation and analyses. The criterion for acceptable recovery is 67-133% for recovery corrected results. Analysis of the LFB samples yielded recoveries of **114.2%** and **100.8%**, which met the acceptance criterion. On this basis, no qualification of the data was required.

6 BLANKS – Acceptable

Ethylation blanks were analyzed with the samples to assess potential contamination during the analytical sequence. Performance criteria were met and no further qualification of the data was required.

Method blanks were prepared and analyzed with the samples to assess potential contamination during the preparation and analytical sequence. Performance criteria (Average<0.14 ng/L and Standard Deviation<0.05 ng/L or Highest MB < 1/10th the lowest sample result based on total picograms Hg in the prep) were met and no further qualification of the data was required.

7 METHOD DUPLICATE ANALYSIS – Not Applicable

Method duplicate analysis not performed during this analysis.

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8 MATRIX SPIKE/MATRIX SPIKE DUPLICATE ANALYSIS – Acceptable

MS/MSD analysis was performed during this analytical sequence. The acceptance criterion is 65-135% recovery with a RPD≤35% for recovery corrected results.

Sample **03BR683-08** was spiked in duplicate and yielded recoveries of **84.9%** and **75.6%** with a RPD of **10.0%**, which met the acceptance criterion. On this basis, no qualification of the data was required.

Sample **03BR708-02** was spiked in duplicate and yielded recoveries of **85.4%** and **80.3%** with a RPD of **6.3%**, which met the acceptance criterion. On this basis, no qualification of the data was required.

9 LIMITS OF DETECTION – Acceptable

Sample results below the detection limit (IDL or MDL) are reported at the detection limit with a qualifier "U". Results above the detection limit and below the quantitation limit (PQL) are reported as the actual result with a qualifier "B".

10 OVERALL DATA QUALITY – Acceptable

No further qualification of the data is required based on this review.

BRL data qualifier definitions are attached.

Refer to the Case Narrative for further details.

I certify that, to the best of my knowledge and belief, the data are reported as true and accurate. The Laboratory Director, or his designee, has authorized release of data contained in this Quality Assurance Report as verified by the following signature.

F. McFarland 12/4/03

Frank McFarland
Quality Assurance Manager

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STL Buffalo
Internal Chain of Custody

Client: U R S Corporation
Project: NY3A9122
Quote: NY03-281
SM #: 128

Turn Around Required: 21C

Purchase Order#: TBD

Client Sample ID	Lab ID	Matrix	Parameters	# and Type of Samp Containers	Sample Date/Time
GW03-003A-P2	A3A91501	WATER	MONOMETHLYMERCURY	1-8ozGW	09/26/2003 10:30
GW03-003A-P1	A3A91502	WATER	MONOMETHLYMERCURY	1-8ozGW	09/26/2003 09:50
GW03-004A-P1	A3A91503	WATER	MONOMETHLYMERCURY	1-8ozGW	09/29/2003 09:50
GW03-009B-P4	A3A91504	WATER	MONOMETHLYMERCURY	1-8ozGW	09/29/2003 13:25
GW03-004A-P2	A3A91505	WATER	MONOMETHLYMERCURY	1-8ozGW	09/29/2003 11:10
GW03-009B-P5	A3A91506	WATER	MONOMETHLYMERCURY	1-8ozGW	09/29/2003 16:50
GW03-008B-P4	A3A91507	WATER	MONOMETHLYMERCURY	1-8ozGW	09/29/2003 17:00
GW03-009A-P1	A3A91508	WATER	MONOMETHLYMERCURY	1-8ozGW	09/29/2003 14:35
GW03-009B-P6	A3A91509	WATER	MONOMETHLYMERCURY	1-8ozGW	09/30/2003 13:55
GW03-008B-P5	A3A91510	WATER	MONOMETHLYMERCURY	1-8ozGW	09/30/2003 15:00
GW03-008A-P1	A3A91511	WATER	MONOMETHLYMERCURY	1-8ozGW	09/30/2003 16:25
GW03-006A-P2	A3A91512	WATER	MONOMETHLYMERCURY	1-8ozGW	10/01/2003 11:00
GW03-006A-P5	A3A91513	WATER	MONOMETHLYMERCURY	1-8ozGW	10/01/2003 12:00
GW03-006A-P5 MD	A3A91513MD	WATER	MONOMETHLYMERCURY	1-8ozGW	10/01/2003 12:00
GW03-006A-P5 MS	A3A91513MS	WATER	MONOMETHLYMERCURY	1-8ozGW	10/01/2003 12:00
GW03-006A-P1	A3A91514	WATER	MONOMETHLYMERCURY	1-8ozGW	10/01/2003 10:00
GW03-007B-P4	A3A91515	WATER	MONOMETHLYMERCURY	1-8ozGW	10/01/2003 16:00
GW03-007A-P1	A3A91516	WATER	MONOMETHLYMERCURY	1-8ozGW	10/01/2003 16:10
GW03-007A-P2	A3A91517	WATER	MONOMETHLYMERCURY	1-8ozGW	10/02/2003 10:30
GW03-001A-P1	A3A91518	WATER	MONOMETHLYMERCURY	1-8ozGW	10/02/2003 16:30
EB1-10/3/03	A3A91519	WATER	MONOMETHLYMERCURY	1-8ozGW	10/02/2003 12:30
GW03-006A-P4	A3A91520	WATER	MONOMETHLYMERCURY	1-8ozGW	10/03/2003 08:20
GW03-007A-P3	A3A91521	WATER	MONOMETHLYMERCURY	1-8ozGW	10/03/2003 09:55
GW03-005A-P1	A3A91522	WATER	MONOMETHLYMERCURY	1-8ozGW	10/06/2003 17:15
GW03-001A-P2	A3A91523	WATER	MONOMETHLYMERCURY	1-8ozGW	10/07/2003 09:10
GW03-008A-P2	A3A91524	WATER	MONOMETHLYMERCURY	1-8ozGW	10/08/2003 17:40
GW03-008A-P3	A3A91525	WATER	MONOMETHLYMERCURY	1-8ozGW	10/08/2003 17:50
GW03-005A-P2	A3A91526	WATER	MONOMETHLYMERCURY	1-8ozGW	10/08/2003 09:30
GW03-008B-P6	A3A91527	WATER	MONOMETHLYMERCURY	1-8ozGW	10/09/2003 11:15
EB1-10/10/03	A3A91528	WATER	MONOMETHLYMERCURY	1-8ozGW	10/10/2003 12:30
GW03-009A/P3	A3A91529	WATER	MONOMETHLYMERCURY	1-8ozGW	10/13/2003 12:35
EB1-10/14/03	A3A91530	WATER	MONOMETHLYMERCURY	1-8ozGW	10/14/2003 14:15
GW03-007B-P5	A3A91531	WATER	MONOMETHLYMERCURY	1-8ozGW	10/14/2003 14:20

1/7/4

Relinquished by STL Buffalo: Signature(s)	Date	Time	Received By Brooks Rand LTD: Signature(s)	Date	Time
(1)	11/10/2003	1715	(3)	11/11/2003	0900
(2)	/ /20		(4)	/ /20	

Brooks Rand Report # 03BR708

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Brooks Rand LLC Sample Receiving Log

Tracking # 03BR708

Customer: Severn Trent Laboratories
Contact: Amy Haag
Project Ref. #: STL005

Collection Date 9/26-10/14/03
QA Level Full

Sample Condition Intact
Shipping container intact? Yes

Shipping container type: cooler
Shipping container temp: ambient
Shipping container coolant: none

Sample preservation: HCl
Acid lab # Field
Hg Concentration:
Sample storage area: Cabinet #2

Sample Turnaround Time:
Contract Turnaround Time: 21 days

Due Date: 12/2/03
Receiving Date: 11/11/03
Receiving Time: 9:00 AM

Logged-in by: Matthew Gomes
Log-in Date: 11/12/03
Log-in Time: 8:16 AM

Airbill present? Yes
Airbill # 613235677986
Carrier: FedEx

Custody seal present? Yes
Custody seal intact? Yes
COC Present? Yes
COC Number: N/A

Analysis request form? Yes
COC/Sample tag agree? Yes

See SOW	No	See Project Manager	No
See Memo	No	See Lab Manager	No
Consult MSDS	No	See Contract Info	No

Comments: See Non-Conformance

Lab ID:	Sample Tag #	Container #	Size:	pH	Matrix/Sub-Matrix	Comments:
1	GW03-003A-P2	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg(Monomethyl)	EPA 1630 Mod.			
2	GW03-003A-P1	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg(Monomethyl)	EPA 1630 Mod.			
3	GW03-004A-P1	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg(Monomethyl)	EPA 1630 Mod.			
4	GW03-009B-P4	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg(Monomethyl)	EPA 1630 Mod.			
5	GW03-004A-P2	G	250 mL Bottle	<2	Water,	
Analysis / Method:		Hg(Monomethyl)	EPA 1630 Mod.			
6	GW03-009B-P5	G	250 mL Bottle	<2	Water,	Broken cap, some sample lost
Analysis / Method:		Hg(Monomethyl)	EPA 1630 Mod.			See Frank

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DATA USABILITY SUMMARY REPORT GROUNDWATER SAMPLING EVENT DECEMBER 2003

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999.

2.0 ANALYTICAL METHODOLOGIES

The data being evaluated are from the December 2 through 19, 2003 sampling of 85 groundwater samples, five matrix spike/matrix spike duplicate (MS/MSD) pairs, two equipment blanks, and 57 trip blanks. The analytical laboratory that performed the analyses is Severn Trent Laboratories, located in Amherst, New York (STL-Buffalo). The samples were analyzed for the following parameters:

- Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260B;
- TCL semivolatile organic compounds (SVOCs) by EPA Method 8270C;
- TCL pesticides by EPA Method 8081A;
- TCL polychlorinated biphenyls (PCBs) by EPA Method 8082;
- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) by EPA Method 8290;
- arsenic, cadmium, calcium, lead, magnesium, potassium, and sodium by EPA Method 6010B;
- mercury by Method EPA 7470A;
- total alkalinity and bicarbonate alkalinity by EPA Method 310.1;
- chloride and sulfate by EPA Method 300.0;
- total hardness by EPA Method 130.2;
- monomethyl mercury by EPA Method 1630, modified;
- total dissolved solids (TDS) by EPA Method 160.1;
- total organic carbon (TOC) by EPA Method 415.1;

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- total suspended solids (TSS) by EPA Method 160.2;
- heterotrophic plate count by Standard Method 9215B;
- total and fecal coliform by Standard Methods 9222B and 9222D; and
- *E. coli* by Standard Method 9221.

Not all samples were analyzed for all parameters.

The methods referenced are from: *Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846*, Final Update III, USEPA, June 1997; *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, USEPA, Revised March 1983; *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, 1998; and Modified *Method 1630, Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS*, USEPA, Draft, August 1998.

STL-Buffalo subcontracted the following parameters: monomethyl mercury analyses to Brooks Rand, LLC, located in Seattle, WA; 2,3,7,8-TCDD analyses to STL-Knoxville, located in Knoxville, TN; and heterotrophic plate count, total and fecal coliform, and *E. coli* analyses to MTL-ACTS, Bureau Veritas Consumer Products Services, Inc., located in Buffalo, NY (ACTS).

All data were reviewed for completeness with regard to deliverables, holding times, and compliance with the referenced methods. The data were qualified following the guidelines presented in: USEPA Region II *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6, Revision 12, March 2001; USEPA Region II *Evaluation of Metals Data for the CLP Program*, SOP HW-2, Revision 11, January 1992; and USEPA Region II *SOP for SW-846 Method 8290, Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994.

Qualifications applied to the data include "J/UJ" (estimated concentration/estimated quantitation limit), "U" (not detected), and "R" (rejected). A summary of sample qualification is presented on Table 1. The validated analytical results are presented on Tables 2 and 3. Definitions of USEPA Region II data

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qualifiers are presented in Attachment A. Definitions of sample concentration units are presented in Attachment B. Documentation supporting qualification of data is presented in Attachment C. Only data qualified due to nonconformance with method and/or project requirements are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were in accordance with NYSDEC Analytical Services Protocol (ASP), June 2000, Category B requirements.

4.0 HOLDING TIMES

The heterotrophic plate count and total coliform analyses of sample GW03-013A-P1 were performed outside the NYSDEC ASP holding time of six hours from the validated time of sample receipt (VTSR) at the laboratory, and approximately 30 minutes past the maximum allowable holding time specified in the methods (i.e., 24 hours from sample collection). The results for heterotrophic plate count and total coliform in this sample were qualified "J" and "UJ," respectively.

Several samples required re-extraction for pesticide analysis because the associated MS/MSD and laboratory control sample (LCS) were not properly spiked. The samples were re-extracted one day past the USEPA Region II technical holding time of seven days from collection, and reanalyzed with acceptable MS/MSD/LCS results. The pesticide results for the samples listed on Table 1 were qualified "UJ" for the holding time exceedance.

5.0 NONCONFORMANCES

The following quality control (QC) non-conformances were noted during the data review:

- Miscellaneous

  The post-weights measured after the sample drying procedure used for the TSS analyses of samples GW03-009A-P1, GW03-009B-P4, and GW03-014B-P4 were less than the pre-weights measured before the drying procedure. The laboratory indicated that this might have been caused by the analyst taking post-weight measurements before the samples had completely cooled. The result of this is a potential for low-biased or false-negative results. All TSS results for the samples

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listed were reported as non-detect. Since the non-detect results are consistent with historical data, and the purge logs indicate low turbidities (a measure of suspended particulate matter) in these samples at the time of collection, the data were not rejected. However, the non-detect results were qualified "UJ."

The heterotrophic plate count results for samples GW03-009A-P3, GW03-011A-P3, GW03-014A-P3, GW03-014B-P4, GW03-014B-P5, GW03-015B-P5, GW03-015C-P7, and GW03-017C-P9 were outside the countable range specified in the method. Because of the short holding times for these analyses, reanalysis of the samples was not possible. The detected results for heterotrophic plate count in these samples were qualified "J."

- Initial and Continuing Calibrations

The average relative response factors (RRF) for the VOCs acetone, 2-butanone, and/or 2-hexanone were below the USEPA Region II QC limit of 0.05 in one or more initial calibrations (ICAL). The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "R" and the detected results qualified "J."

The RRFs for the VOCs acetone, methyl acetate, 2-butanone, 2-hexanone, and/or 1,2-dibromo-3-chloropropane were below the USEPA Region II QC limit of 0.05 in one or more continuing calibration (CCAL) standards. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "R" and the detected results qualified "J."

The percent difference (%D) between the ICAL average RRF and the RRF in one or more of the CCAL standards exceeded the USEPA Region II QC limit of 25% for the VOCs bromomethane, bromoform, 2-butanone, chloroethane, 1,2-dibromo-3-chloropropane, dichlorodifluoromethane, 2-hexanone, isopropylbenzene, 1,2,4-trichlorobenzene, methyl tert butyl ether (MTBE), 4-methyl-2-pentanone, methyl

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acetate, 1,2,4-trichlorobenzene, trichlorofluoromethane, and/or 1,1,2-trichloro-1,2,2-trifluoroethane. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "UJ."

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards exceeded the USEPA Region II QC limit of 25% for the SVOCs 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, acetophenone, atrazine, benzaldehyde, caprolactam, and/or hexachlorocyclopentadiene. The detected results for these compounds in the associated samples listed on Table 1 were qualified "J" and the non-detect results qualified "UJ."

- Blank Contamination

The pesticide endrin was detected in the method blank associated with sample GW03-014B-P5. The result for endrin in this sample was qualified "U" at the reporting limit because the concentration was less than five times the concentration detected in the method blank.

- Internal Standard Recovery

The TCDD analysis of sample GW03-010B-P5 exhibited a recovery above the upper QC limit for internal standard (IS) 13C12-2,3,7,8-TCDD. The elevated recovery was due to co-eluting matrix interference. The 2,3,7,8-TCDD result for this sample was qualified "UJ" for the IS outlier.

- Matrix Spike, Matrix Duplicate, and Laboratory Control Sample Recovery

The recoveries of all pesticides were less than 10% in the MS/MSD analyses of sample GW03-005A-P1. The associated laboratory control sample (LCS) exhibited similar recoveries. The poor recovery was attributed to laboratory error. All samples in the associated extraction batch were re-extracted outside the USEPA Region II technical holding time of seven days from collection. The recoveries of all pesticides

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in the re-extracted MS/MSD and LCS were within QC limits. The pesticide results in the associated samples were qualified for the holding time exceedance, as discussed in Section 4.0 of this report.

The recovery of mercury in the MS analysis of sample GW03-015A-P2 was less than the lower QC limit, and less than 30%. The non-detect results for mercury in the associated samples listed on Table 1 were qualified "R."

The recovery of sulfate in the MS analysis of sample GW03-014B-P5 was below the lower control limit. The results for sulfate in the associated samples listed on Table 1 were qualified "J."

The relative percent difference (RPD) between the heterotrophic plate count and total coliform concentrations in sample GW03-016C-P7 and those in the matrix duplicate analysis of this sample exceeded 50%. Using professional judgment, the results for heterotrophic plate count and total coliform in sample GW03-016C-P7 were qualified "J." Because of the inherent variability with these analyses and the dynamic nature of the samples with regards to biological activity, the results for other samples were not qualified based on the matrix duplicate results.

- Analyte Identification

The %D between the concentrations of beta-BHC and/or delta-BHC detected on the primary chromatographic column and those detected on the confirmation column exceeded 25% in the samples listed on Table 1. Detected results greater than the reporting limit (RL) were qualified "J." If the %D was greater than 50% and the sample concentration was less than the RL, the results were raised to the RL and qualified "U."

The ion ratios and/or signal-to-noise ratios for 2,3,7,8-TCDD in samples GW03-005A-P2, GW03-015B-P6, and GW03-015C-P7 did not meet USEPA Region II

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validation criteria. The estimated maximum possible concentrations (EMPCs) reported by the laboratory are therefore considered non-detect. The final results for 2,3,7,8-TCDD in these samples were qualified "U."

- Serial Dilutions

The %D between the concentration of potassium in the undiluted analyses of samples GW03-010B-P4, GW03-012A-P3, GW03-013A-P1, and GW03-014A-P3 and the concentration in the serial dilution analyses of the samples exceeded 10%. The results for potassium in the associated samples listed on Table 1 were qualified "J."

The %D between the concentration of lead in the undiluted analysis of sample GW03-012A-P3 and the concentration in the serial dilution analysis of the sample exceeded 10%. The results for lead in the associated samples listed on Table 1 were qualified "J."

The %D between the concentrations of calcium, magnesium, and sodium in the undiluted analysis of sample GW03-014A-P3 and the concentrations in the serial dilution analysis of the sample exceeded 10%. The results for calcium, magnesium, and sodium in the associated samples listed on Table 1 were qualified "J."

- Contract Required Detection Limit (CRDL) Standards

The recovery of mercury in one or more of the CRDL standards was below the lower USEPA Region II control limit of 80%. The non-detect results for mercury in the associated samples listed on Table 1 were qualified "UJ."

The recovery of lead in one or more of the CRDL standards was below the lower USEPA Region II control limit of 80%. Non-detect results for lead in the associated samples listed on Table 1 were qualified "UJ" and detected concentrations less than two times the CRDL standard concentration were qualified "J."

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6.0 SAMPLE RESULTS AND REPORTING

All quantitation limits were reported in accordance with method requirements and were adjusted for sample size and dilution factors. The VOC fraction of samples GW03-005A-P2, GW03-009A-P2, GW03-009A-P3, GW03-012A-P3, GW03-014A-P3, GW03-016A-P3, GW03-017A-P1, GW03-017A-P2, and GW03-017C-P8 was diluted prior to analysis due to elevated concentrations of target compounds. The VOC fraction of samples GW03-015A-P2 and GW03-017A-P3 was diluted prior to analysis because the samples foamed excessively during the sample introduction (i.e., purging) process. The dilutions were necessary to avoid damage to the instrument.

Sample results qualified "D" were reported from secondary dilution analyses. Several organic sample results were qualified "J" by the laboratory indicating estimated concentrations below the quantitation limits. Monomethyl mercury results for several samples were qualified "B" by the laboratory indicating estimated concentrations below the quantitation limit.

The results for hardness reported by the laboratory for samples GW03-009A-P3 and GW03-010A-P3 were significantly less (i.e., more than one order of magnitude) than the hardness values calculated from the sample concentrations of calcium and magnesium. Using professional judgment, the Form 1s for these samples were manually corrected to include the hardness results based on the concentrations of calcium and magnesium, and these results are reported on Table 2.

The final results as listed on the reporting forms (i.e., Form 1) were in agreement with the raw data, and no transcription/calculation errors were detected except for the following:

- The laboratory reported non-detect results for the SVOC caprolactam in samples GW03-004A-P2 and GW03-017A-P1. However, the raw data indicate that this compound was present in the samples. The SVOC Form 1s for these samples were manually corrected to indicates that caprolactam was detected, and these results reported on Table 2.
- The laboratory reported a non-detect result for sulfate in sample GW03-001A-P1, and the reporting limit was elevated due to sample dilution. The

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raw data indicate that an analysis at a lower dilution was also performed, in which the concentration of sulfate exceeded the range of calibration. The Form 1 for this sample was changed to include the detected result from the lower dilution analysis, and the concentration qualified "J" due to the calibration range exceedance. This result was reported on Table 2.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified "J/UJ"(estimated/estimated quantitation limit) are considered conditionally usable. Those results qualified "U" are considered not detected. Those results qualified "R" (rejected) are unusable. All other sample results are usable as reported.

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TABLE 1
SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-001A-P1, GW03-002A-P2, GW03-005A-P1, GW03-007A-P2, GW03-007A-P3, GW03-008A-P2, GW03-009A-P3, GW03-010A-P1, GW03-010A-P3, GW03-012A-P2, GW03-012A-P3, GW03-012B-P4, GW03-012B-P5, GW03-012B-P6, GW03-012C-P7, GW03-013A-P1, GW03-013A-P2, GW03-014A-P1, GW03-014A-P2, GW03-014A-P3, GW03-014B-P6, GW03-014C-P7, GW03-015A-P1, GW03-015B-P4, GW03-016A-P1, GW03-016A-P2, GW03-016B-P4, GW03-016B-P5, GW03-016B-P6, GW03-016C-P8, GW03-016C-P7, GW03-017A-P1, GW03-017A-P2, GW03-017A-P3, GW03-017C-P8, GW03-017C-P9, EB1-121503, EB2-121503, TB2-120403, TB1-120403, TB3-120403, TB4-120403, TB4-120803, TB5-120803, TB6-120803, TB1-121003, TB2-121003, TB1-121103, TB1-121203, TB2-121203, TB3-121203, TB1-121503, TB2-121503, TB3-121503, TB4-121503, TB5-121503, TB6-121503, TB1-121603, TB2-121603, TB3-121603, TB4-121603, TB1-121703, TB2-121703, TB3-121703, TB4-121703, TB1-121803, TB2-121803, TB3-121803, TB4-121803, TB1-121903, and TB2-121903	VOC	ICAL average RRF <0.05 for acetone.	Qualify non-detect results “R” and detected results “J.”

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-007A-P2, GW03-007A-P3, and TB1-121103	VOC	CCAL RRF <0.05 for 2-butanone.	Qualify non-detect results "R."
GW03-009A-P3, GW03-012A-P2, GW03-012B-P5, GW03-012B-P6, GW03-016A-P2, and TB4-121603	VOC	CCAL RRF <0.05 for methyl acetate.	Qualify non-detect results "R."
GW03-005A-P1, GW03-007A-P1, GW03-007B-P4, GW03-008A-P2, GW03-009A-P2, GW03-010A-P1, GW03-013A-P1, GW03-013A-P2, GW03-013B-P4, GW03-013B-P5, GW03-013C-P7, GW03-014B-P4, GW03-014C-P7, TB2-120403, TB5-120403, and TB6-120403,	VOC	CCAL >25 %D for 1,2-dibromo-3-chloropropane.	Qualify non-detect results "UJ."
TB1-120403, TB3-120403, and TB4-120403	VOC	CCAL >25 %D for bromomethane, 1,2-dibromo-3-chloropropane, 2-hexanone, isopropylbenzene, 1,2,4-trichlorobenzene, and methyl tert-butyl ether.	Qualify non-detect results "UJ."
GW03-002A-P1, GW03-015A-P3, TB1-120903, and TB2-120903	VOC	CCAL >25 %D for bromomethane, 1,2-dibromo-3-chloropropane, 2-hexanone, methyl tert-butyl ether, and 4-methyl-2-pentanone.	Qualify non-detect results "UJ."
GW03-016A-P3, GW03-017B-P5, and TB2-121103	VOC	CCAL >25 %D for methyl tert-butyl ether.	Qualify non-detect results "UJ."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-006A-P1, GW03-010B-P4, GW03-011B-P4, GW03-011C-P7, GW03-016C-P8, TB4-120203, TB5-120203, TB6-120203, and TB4-121703	VOC	CCAL >25 %D for bromomethane and chloroethane.	Qualify non-detect results "UJ."
GW03-004A-P1, GW03-004A-P2, GW03-006A-P5, GW03-008B-P4, GW03-008B-P5, GW03-010A-P2, GW03-010B-P5, GW03-011A-P3, TB1-120303, TB2-120303, TB3-120303, TB4-120303, TB5-120303, TB6-120303, and TB7-120303	VOC	CCAL >25 %D for 1,1,2-trichloro-1,2,2-trifluoroethane.	Qualify non-detect results "UJ."
GW03-008A-P1, GW03-008A-P3, GW03-010B-P6, GW03-011C-P8, GW03-014A-P3, GW03-017A-P1, GW03-17A-P3, TB1-121703, TB2-121703, and TB3-121703	VOC	CCAL >25 %D for bromomethane.	Qualify non-detect results "UJ."
GW03-009A-P1, GW03-009B-P4, GW03-009B-P5, TB1-120503, TB2-120503, and TB3-120503	VOC	CCAL >25 %D for bromomethane and 1,2-dibromo-3-chloropropane.	Qualify non-detect results "UJ."
GW03-006B-P2, GW03-006B-P4, GW03-009B-P6, GW03-013A-P3, GW03-014B-P5, TB1-120803, TB2-120803, and TB-03-120803	VOC	CCAL >25 %D for bromomethane, 1,2-dibromo-3-chloropropane, 2-hexanone, and 4-methyl-2-pentanone.	Qualify non-detect results "UJ."
GW03-012C-P7, GW03-014A-P1, GW03-016B-P6, GW03-016C-P7, GW03-017C-P8, EB1-121503, EB2-121503, TB1-121503, TB2-121503, TB3-121503, TB4-121503, TB5-121503, and TB6-121503	VOC	CCAL >25 %D for chloroethane.	Qualify non-detect results "UJ."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-007A-P2, GW03-015B-P5, GW03-015B-P6, GW03-015C-P7, GW03-017B-P4, TB01-121003, TB02-121003, TB03-121003, and TB04-121003	VOC	CCAL >25 %D for trichlorofluoromethane and methyl tert-butyl ether.	Qualify non-detect results "UJ."
GW03-007A-P3 and TB1-121103	VOC	CCAL >25 %D for methyl tert-butyl ether.	Qualify non-detect results "UJ."
TB1-121603, TB2-121603, and TB3-121603	VOC	CCAL >25 %D for bromoform, 2-butanone, methyl acetate, 1,2-dibromo-3-chloropropane, 2-hexanone, 4-methyl-2-pentaone, 1,2,4-trichlorobeznene, and methyl tert-butyl ether.	Qualify non-detect results "UJ."
GW03-012B-P4, GW03-014A-P2, GW03-016B-P5, GW03-017C-P9, TB1-121803, TB2-121803, TB3-121803, and TB4-121803	VOC	CCAL >25 %D for bromomethane and dichlorodifluoromethane.	Qualify non-detect results "UJ."
GW03-001A-P1, GW03-002A-P1, GW03-005A-P2, GW03-007A-P2, GW03-007A-P3, GW03-007B-P5, GW03-014B-P6, GW03-015A-P1, GW03-015A-P2, GW03-015A-P3, GW03-015B-P4, GW03-015B-P5, GW03-015B-P6, GW03-015C-P7, GW03-017B-P4, GW03-017B-P6, and GW03-017C-P7	SVOC	CCAL >25 %D for acetophenone, caprolactam, and hexachlorocyclopentadiene.	Qualify non-detect results "UJ" and detected results "J."
GW03-003A-P1, GW03-003A-P2, GW03-006A-P1, GW03-010B-P4, GW03-010C-P7, GW03-011A-P1, GW03-011A-P2, GW03-011B-P4, and GW03-011C-P7	SVOC	CCAL >25 %D for caprolactam.	Qualify non-detect results "UJ."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-004A-P1, GW03-004A-P2, GW03-005A-P2, GW03-006A-P1, GW03-006A-P5, GW03-007B-P5, GW03-008A-P3, GW03-008B-P4, GW03-008B-P5, GW03-010A-P2, GW03-010B-P4, GW03-010B-P5, GW03-011A-P3, GW03-011B-P4, GW03-011C-P7, GW03-015A-P2, GW03-015B-P5, GW03-015B-P6, GW03-015C-P7, GW03-016A-P3, GW03-017B-P4, GW03-017B-P5, GW03-017B-P6, GW03-017C-P7, TB1-120303, TB2-120303, TB3-120303, TB4-120203, TB4-120303, TB5-120203, TB5-120303, TB6-120203, TB6-120303, TB7-120303, TB01-121003, TB02-121003, TB3-121003, TB4-121003, and TB2-121103	VOC	ICAL average RRF <0.05 for acetone and 2-butanone.	Qualify non-detect results “R” and detected results “J.”
GW03-008A-P1, GW03-010B-P6, and GW03-011C-P8	VOC	ICAL average RRF <0.05 for acetone, 2-butanoane, and 2-hexanone.	Qualify non-detect results “R.”
GW03-008A-P1, GW03-010B-P6, and GW03-011C-P8,	VOC	CCAL RRF <0.05 for 1,2-dibromo-3-chloropropane.	Qualify non-detect results “R.”
GW03-008A-P3	VOC	CCAL RRF <0.05 for 2-hexanone and 1,2-dibromo-3-chloropropane.	Qualify non-detect results “R.”
GW03-007A-P1, GW03-007B-P4, GW03-013B-P4, GW03-013B-P5, TB6-120403, and TB5-120403	VOC	CCAL RRF <0.05 for acetone.	Qualify non-detect results “R.”

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-015A-P1 and GW03-015C-P7	Pesticide	%D between column concentrations > 25% but < 70% for delta-BHC.	Qualify detected results "J."
GW03-016B-P4, GW03-016B-P5, and GW03-017C-P7	Pesticide	%D between column concentrations > 50% for beta-BHC, and sample concentration < RL.	Raise results to RL and qualify "U."
GW03-010B-P5	TCDD	Internal standard recovery above the upper QC limit.	Qualify non-detect result "UJ."
GW03-005A-P2, GW03-015B-P6, and GW03-015C-P7.	TCDD	Ion ratios and/or signal-to-noise ratios did not meet acceptance criteria.	Raise results to RL and qualify "U."
GW03-006A-P1, GW03-009A-P3, GW03-010A-P3, GW03-010B-P4, GW03-011B-P4, GW03-011C-P7, GW03-012A-P3, GW03-013A-P1, GW03-014A-P2, and GW03-014A-P3	Metals	Serial dilution >10%D for potassium.	Qualify detected results >10X IDL "J."
GW03-012A-P3	Metals	Serial dilution >10%D for lead.	Qualify detected results >10X IDL "J."
GW03-009A-P3, GW03-014A-P2, and GW03-014A-P3	Metals	Serial dilution >10%D for calcium, magnesium, and sodium.	Qualify detected results >10X IDL "J."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-002A-P2, GW03-004A-P1, GW03-004A-P2, GW03-006A-P5, GW03-007A-P1, GW03-007B-P4, GW03-008A-P3, GW03-009A-P1, GW03-009A-P2, GW03-009B-P4, GW03-009B-P5, GW03-010A-P2, GW03-010A-P3, GW03-011A-P3, GW03-012A-P3, GW03-013B-P4, GW03-013B-P5, GW03-013C-P7, GW03-014A-P2, GW03-014A-P3, GW03-014B-P4, GW03-016A-P1, GW03-016B-P4, GW03-016B-P5, GW03-016C-P8, GW03-017A-P1, GW03-017A-P2, and GW03-017C-P9	Metals	Mercury recovery < 80% in the CRDL standard.	Qualify non-detect results “UJ.”
GW03-002A-P2, GW03-016A-P1, GW03-016A-P3, GW03-016B-P4, and GW03-017B-P5	Metals	Lead recovery < 80% in the CRDL standard.	Qualify detected results “J” and non-detect results “UJ.”
GW03-005A-P2, GW03-007A-P3, GW03-015A-P2, and GW03-015A-P3.	Metals	MS recovery for mercury less than 30%.	Qualify non-detect results “R.”
GW03-009A-P1, GW03-009B-P4, and GW03-014B-P4.	TSS	Post-weights greater than pre-weights during analysis.	Qualify non-detect results “UJ.”
GW03-001A-P1	Sulfate	Concentration exceeded the range of calibration.	Qualify detected result “J.”

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-004A-P1, GW03-004A-P2, GW03-006A-P5, GW03-007A-P1, GW03-007B-P4, GW03-008A-P3, GW03-009A-P1, GW03-009A-P2, GW03-009B-P4, GW03-009B-P5, GW03-009B-P6, GW03-010A-P2, GW03-011A-P3, GW03-013A-P3, GW03-013B-P4, GW03-013B-P5, GW03-013C-P7, GW03-014B-P4, and GW03-014B-P5	Sulfate	MS recovery below the lower QC limit.	Qualify detected results "J."
GW03-013A-P1	Heterotrophic plate count and total coliform	Analysis outside of holding time.	Qualify detected results "J" and non-detect results "UJ."
GW03-016C-P7	Heterotrophic plate count and total coliform	RPD between sample and matrix duplicate concentrations > 50%.	Qualify detected results "J."
GW03-009A-P3, GW03-011A-P3, GW03-014A-P3, GW03-014B-P4, GW03-014B-P5, GW03-015B-P5, GW03-015C-P7, and GW03-017C-P9	Heterotrophic plate count	Results outside countable range specified in the method.	Qualify detected results "J."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-005A-P1, GW03-007A-P1, GW03-007B-P4, GW03-008A-P2, GW03-010A-P1, GW03-013A-P1, GW03-013A-P2, GW03-013B-P4, GW03-013B-P5, and GW03-014C-P7	SVOC	CCAL >25 %D for acetophenone, atrazine, and caprolactam.	Qualify non-detect results "UJ."
GW03-009A-P1, GW03-009A-P2, GW03-009B-P4, GW03-009B-P5, GW03-013C-P7, and GW03-014B-P4	SVOC	CCAL >25 %D for benzaldehyde and caprolactam.	Qualify non-detect results "UJ."
GW03-009A-P3, GW03-012A-P2, GW03-012B-P5, GW03-012B-P6, GW03-014A-P1, GW03-016A-P2, GW03-016B-P6, GW03-016C-P7, and EB2-121503	SVOC	CCAL >25 %D for 2,4-dinitrophenol.	Qualify non-detect results "UJ."
GW03-012C-P7, GW03-017C-P8, and EB1-121503	SVOC	CCAL >25 %D for 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol.	Qualify non-detect results "UJ."
GW03-016A-P1, GW03-016A-P3, GW03-016B-P4, GW03-017A-P2, and GW03-017B-P5	SVOC	CCAL >25 %D for caprolactam and hexachlorocyclopentadiene	Qualify non-detect results "UJ."
GW03-005A-P1, GW03-007A-P1, GW03-007B-P4, GW03-008A-P2, GW03-010A-P1, GW03-013A-P1, GW03-013A-P2, GW03-013B-P4, GW03-013B-P5, and GW03-014C-P7	Pesticides	Technical holding time exceedance for sample extraction.	Qualify non-detect results "UJ."
GW03-014B-P5	Pesticides	Endrin concentration < five times amount detected in method blank.	Raise results to RL and qualify "U."
GW03-016A-P2 and GW03-017C-P8	Pesticides	%D between column concentrations > 25% but < 70% for beta-BHC.	Qualify detected results "J."

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Sample ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/12/03	12/02/03	12/02/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	5.0 U	10 J	5.0 U	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Sample ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/12/03	12/02/03	12/02/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	NA	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dinitrophenol	UG/L	49 U	49 U	NA	50 U	49 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	NA	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	NA	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	NA	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	NA	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	NA	10 U	10 U
2-Nitroaniline	UG/L	49 U	49 U	NA	50 U	49 U
2-Nitrophenol	UG/L	10 U	10 U	NA	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	NA	20 U	20 U
3-Nitroaniline	UG/L	49 U	49 U	NA	50 U	49 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	49 U	NA	50 U	49 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	NA	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	NA	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	NA	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Sample ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/12/03	12/02/03	12/02/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	NA	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	NA	10 U	10 U
4-Nitroaniline	UG/L	49 U	49 U	NA	50 U	49 U
4-Nitrophenol	UG/L	49 U	49 U	NA	50 U	49 U
Acenaphthene	UG/L	10 U	10 U	NA	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	NA	10 U	10 U
Acetophenone	UG/L	10 UJ	10 UJ	NA	10 U	10 U
Anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Atrazine	UG/L	10 U	10 U	NA	10 U	10 U
Benzaldehyde	UG/L	49 U	49 U	NA	50 U	49 U
Benzo(a)anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	NA	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Caprolactam	UG/L	10 UJ	10 UJ	NA	10 UJ	10 UJ
Carbazole	UG/L	10 U	10 U	NA	10 U	10 U
Chrysene	UG/L	10 U	10 U	NA	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Sample ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/12/03	12/02/03	12/02/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	NA	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
Fluorene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 UJ	23 UJ	NA	24 U	23 U
Hexachloroethane	UG/L	10 U	10 U	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	NA	10 U	10 U
Isophorone	UG/L	10 U	10 U	NA	10 U	10 U
Naphthalene	UG/L	10 U	10 U	NA	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	NA	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	NA	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	NA	10 U	10 U
Pentachlorophenol	UG/L	49 U	49 U	NA	50 U	49 U
Phenanthrene	UG/L	10 U	10 U	NA	10 U	10 U
Phenol	UG/L	10 U	10 U	NA	10 U	10 U
Pyrene	UG/L	10 U	10 U	NA	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Sample ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/12/03	12/02/03	12/02/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin ketone	UG/L	0.069 U	0.072 U	NA	0.072 U	0.072 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.49 U	0.50 U	NA	0.50 U	0.50 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Sample ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/12/03	12/02/03	12/02/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.49 U	0.50 U	NA	0.50 U	0.50 U
Aroclor 1232	UG/L	0.49 U	0.50 U	NA	0.50 U	0.50 U
Aroclor 1242	UG/L	0.49 U	0.50 U	NA	0.50 U	0.50 U
Aroclor 1248	UG/L	0.49 U	0.50 U	NA	0.50 U	0.50 U
Aroclor 1254	UG/L	0.49 U	0.50 U	NA	0.50 U	0.50 U
Aroclor 1260	UG/L	0.49 U	0.50 U	NA	0.50 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.9 U	2.3 U	NA	1.6 U	1.6 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	2.7	1.0 U	1.0 U
Calcium	UG/L	393,000	141,000	1,010,000	181,000	231,000
Lead	UG/L	6.0 U	6.0 U	10.7 J	6.0 U	6.0 U
Magnesium	UG/L	93,200	58,000	369,000	95,000	120,000
Mercury	UG/L	0.200 U	0.200 U	0.200 UJ	0.200 U	0.200 U
Potassium	UG/L	14,500	6,440	83,500	3,730	10,800
Sodium	UG/L	304,000	61,200	3,680,000	79,400	196,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	336	362	NA	321	338
Alkalinity, Total (as CaCO3)	MG/L	336	362	NA	321	338
Chloride	MG/L	761	69.8	NA	361	616
Hardness	MG/L	1,380	710	NA	890	1,200
Monomethyl Mercury	NG/L	0.202 B	0.25 U	NA	0.25 U	0.098 B

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Sample ID		GW03-001A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/12/03	12/02/03	12/02/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,270 J	271	NA	162	258
Total Dissolved Solids	MG/L	2,550	845	NA	1,200	2,020
Total Organic Carbon (TOC)	MG/L	1.0	1.7	1.7	1.0 U	1.1
Total Suspended Solids	MG/L	4.0 U	4.0 U	NA	9.0	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	65	72	61,000	880	30,000
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	NA	5.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 UJ	NA	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	NA	25 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	NA	25 U
Acetone	UG/L	R	R	R	NA	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	NA	160
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	NA	1.6 J
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Chloroform	UG/L	0.42 J	1.0 U	1.0 U	NA	5.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Cyclohexane	UG/L	1.0 U	2.2	1.0 U	NA	83
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Ethylbenzene	UG/L	1.0 U	0.45 J	1.0 U	NA	13
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	NA	1.7 J
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	5.0 U	NA	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Methylcyclohexane	UG/L	1.0 U	1.1	1.0 U	NA	50
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Toluene	UG/L	1.0 U	0.62 J	1.0 U	NA	120
Total Xylenes	UG/L	3.0 U	2.6 J	3.0 U	NA	91
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	NA	5.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	NA	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	NA	10 U
2,4-Dinitrophenol	UG/L	49 U	49 U	50 U	NA	49 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	NA	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	NA	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	NA	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	NA	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	NA	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	NA	10 U
2-Nitroaniline	UG/L	49 U	49 U	50 U	NA	49 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	NA	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	20 U	NA	20 U
3-Nitroaniline	UG/L	49 U	49 U	50 U	NA	49 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	49 U	50 U	NA	49 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	NA	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	NA	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	NA	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	NA	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	NA	10 U
4-Nitroaniline	UG/L	49 U	49 U	50 U	NA	49 U
4-Nitrophenol	UG/L	49 U	49 U	50 U	NA	49 U
Acenaphthene	UG/L	10 U	10 U	10 U	NA	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	NA	10 U
Acetophenone	UG/L	10 U	10 U	10 UJ	NA	10 UJ
Anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Atrazine	UG/L	10 U	10 U	10 UJ	NA	10 U
Benzaldehyde	UG/L	49 U	49 U	50 U	NA	49 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	NA	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	NA	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	NA	7 J
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Caprolactam	UG/L	10 U	7 J	10 UJ	NA	7 J
Carbazole	UG/L	10 U	10 U	10 U	NA	10 U
Chrysene	UG/L	10 U	10 U	10 U	NA	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	NA	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	NA	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	NA	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	NA	10 U
Fluorene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	NA	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	24 U	NA	23 UJ
Hexachloroethane	UG/L	10 U	10 U	10 U	NA	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	NA	10 U
Isophorone	UG/L	10 U	10 U	10 U	NA	10 U
Naphthalene	UG/L	10 U	10 U	10 U	NA	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	NA	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	NA	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	NA	10 U
Pentachlorophenol	UG/L	49 U	49 U	50 U	NA	49 U
Phenanthrene	UG/L	10 U	10 U	10 U	NA	10 U
Phenol	UG/L	10 U	10 U	10 U	NA	10 U
Pyrene	UG/L	10 U	10 U	10 U	NA	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Endrin ketone	UG/L	0.073 U	0.072 U	0.072 UJ	NA	0.072 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 UJ	NA	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 UJ	NA	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.49 U	0.48 U	0.50 U	NA	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.49 U	0.48 U	0.50 U	NA	0.48 U
Aroclor 1232	UG/L	0.49 U	0.48 U	0.50 U	NA	0.48 U
Aroclor 1242	UG/L	0.49 U	0.48 U	0.50 U	NA	0.48 U
Aroclor 1248	UG/L	0.49 U	0.48 U	0.50 U	NA	0.48 U
Aroclor 1254	UG/L	0.49 U	0.48 U	0.50 U	NA	0.48 U
Aroclor 1260	UG/L	0.49 U	0.48 U	0.50 U	NA	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.3 U	2.7 U	1.8 U	NA	2.2 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	NA	16.8
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	NA	1.0 U
Calcium	UG/L	190,000	75,700	759,000	NA	1,200,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	NA	21.5
Magnesium	UG/L	93,200	41,500	133,000	NA	509,000
Mercury	UG/L	0.200 UJ	0.200 UJ	0.200 U	NA	R
Potassium	UG/L	15,600	18,700	27,800	NA	40,800
Sodium	UG/L	158,000	281,000	685,000	NA	3,630,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	266	359	305	NA	184
Alkalinity, Total (as CaCO3)	MG/L	266	359	305	NA	184
Chloride	MG/L	333	376	972	NA	7,630
Hardness	MG/L	980	660	3,210	NA	7,300
Monomethyl Mercury	NG/L	0.253	0.761	0.25 U	NA	0.140 B

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	173 J	187 J	1,250	NA	2,090
Total Dissolved Solids	MG/L	1,030	1,070	4,850	NA	12,700
Total Organic Carbon (TOC)	MG/L	1.9	2.0	1.0 U	NA	1.6
Total Suspended Solids	MG/L	4.0 U	6.0	4.0 U	NA	733
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	3,400	35,000	NA	59	8,100
Total Coliform	C/100 ML	20 U	30	NA	20 U	60
Fecal Coliform	C/100 ML	NA	NA	NA	NA	20 U
E Coli	POS/NEG	NEG	POS	NA	NEG	POS

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/08/03	12/08/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 U
Acetone	UG/L	R	R	5.0 U	5.0 U	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/08/03	12/08/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	0.83 J	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.35 J
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/08/03	12/08/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	49 U	50 U	52 U	52 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	49 U	50 U	52 U	52 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	21 U	21 U	19 U
3-Nitroaniline	UG/L	49 U	50 U	52 U	52 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	50 U	52 U	52 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/08/03	12/08/03	12/04/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	49 U	50 U	52 U	52 U	48 U
4-Nitrophenol	UG/L	49 U	50 U	52 U	52 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 UJ
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 UJ
Benzaldehyde	UG/L	49 U	50 U	52 U	52 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 UJ	10 U	10 U	10 U	10 UJ
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/08/03	12/08/03	12/04/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	24 U	24 U	24 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	49 U	50 U	52 U	52 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/08/03	12/08/03	12/04/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Endrin ketone	UG/L	0.072 U	0.072 U	0.073 U	0.073 U	0.073 UJ
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 UJ
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.49 U	0.50 U	0.50 U	0.49 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/08/03	12/08/03	12/04/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.49 U	0.50 U	0.50 U	0.49 U
Aroclor 1232	UG/L	0.50 U	0.49 U	0.50 U	0.50 U	0.49 U
Aroclor 1242	UG/L	0.50 U	0.49 U	0.50 U	0.50 U	0.49 U
Aroclor 1248	UG/L	0.50 U	0.49 U	0.50 U	0.50 U	0.49 U
Aroclor 1254	UG/L	0.50 U	0.49 U	0.50 U	0.50 U	0.49 U
Aroclor 1260	UG/L	0.50 U	0.49 U	0.50 U	0.50 U	0.49 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.2 U	2.3 U	2.7 U	3.0 U	2.6 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	147,000	639,000	704,000	92,300	54,300
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	53,200	97,900	107,000	27,100	19,800
Mercury	UG/L	0.200 U	0.200 UJ	0.200 U	0.200 U	0.200 UJ
Potassium	UG/L	3,240 J	23,400	21,700	10,800	2,840
Sodium	UG/L	95,700	519,000	538,000	12,300	6,280
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	313	288	288	278	131
Alkalinity, Total (as CaCO3)	MG/L	313	288	288	278	131
Chloride	MG/L	175	1,220	976	12.1	6.3
Hardness	MG/L	296	2,160	2,380	410	280
Monomethyl Mercury	NG/L	0.097 B	0.25 U	0.25 U	0.25 U	0.25 U

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/08/03	12/08/03	12/04/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	154	1,950 J	1,800	59.6	90.5 J
Total Dissolved Solids	MG/L	888	3,740	4,330	408	302
Total Organic Carbon (TOC)	MG/L	1.9	1.0 U	1.0 U	1.1	6.2
Total Suspended Solids	MG/L	4.0 U	8.0 U	4.0 U	4.0 U	5.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	970	120	870	520	5,600
Total Coliform	C/100 ML	20 U	20	20 U	20 U	120
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/11/03	12/04/03	12/11/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	R
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	14 J	R	35 J	R
Benzene	UG/L	1.0 U	20	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/11/03	12/04/03	12/11/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.3	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	19	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	3.2	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	0.70 J	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	5.0 U	10 J	R
Methyl tert-butyl ether	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	12	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	3.0	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	4.3	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/11/03	12/04/03	12/11/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	49 U	48 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	50 U	49 U	48 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	50 U	49 U	48 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	49 U	48 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/11/03	12/04/03	12/11/03	12/03/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	50 U	49 U	48 U	48 U	48 U
4-Nitrophenol	UG/L	50 U	49 U	48 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 UJ	10 U	10 U
Benzaldehyde	UG/L	50 U	49 U	48 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	21	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 UJ	7 J	10 UJ	30 J	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/11/03	12/04/03	12/11/03	12/03/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 UJ	23 UJ	23 U	23 UJ	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	50 U	49 U	48 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/11/03	12/04/03	12/11/03	12/03/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endrin ketone	UG/L	0.072 U	0.072 U	0.074 UJ	0.070 U	0.069 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.50 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/11/03	12/04/03	12/11/03	12/03/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.4 U	2.2 U	2.4 U	3.2 U	2.2 U
Metals						
Arsenic	UG/L	10.0 U	36.5	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	613,000	8,170,000	227,000	443,000	107,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	58,300	3,560,000	88,300	82,700	32,200
Mercury	UG/L	0.200 U	R	0.200 UJ	0.200 U	0.200 U
Potassium	UG/L	9,910	296,000	3,980	9,400	2,300
Sodium	UG/L	99,000	23,700,000	15,400	93,000	62,400
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	298	96.2	341	268	296
Alkalinity, Total (as CaCO3)	MG/L	298	96.2	341	268	296
Chloride	MG/L	163	83,100	12.4	161	25.9
Hardness	MG/L	1,900	37,800	980	4,800	440
Monomethyl Mercury	NG/L	0.25 U	0.25 U	0.25 U	0.118 B	0.25 U

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/11/03	12/04/03	12/11/03	12/03/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,480	1,040	619 J	1,180	196
Total Dissolved Solids	MG/L	2,700	88,300	1,250	2,030	649
Total Organic Carbon (TOC)	MG/L	2.7	1.0 U	1.7	2.3	8.2
Total Suspended Solids	MG/L	4.0 U	60.0	20.0	20.0	9.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	66	180	450	8,300	610
Total Coliform	C/100 ML	20 U	20 U	30	20	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/03/03	12/03/03	12/05/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	R	1.0 U	1.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	R	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/03/03	12/03/03	12/05/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.8	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	0.70 J	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	R	R	R	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	0.96 J	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/03/03	12/03/03	12/05/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	11 U	10 U	9 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	11 U	10 U	9 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	11 U	10 U	9 U	10 U	10 U
2,4-Dichlorophenol	UG/L	11 U	10 U	9 U	10 U	10 U
2,4-Dimethylphenol	UG/L	11 U	10 U	9 U	10 U	10 U
2,4-Dinitrophenol	UG/L	56 U	50 U	47 U	48 U	52 U
2,4-Dinitrotoluene	UG/L	11 U	10 U	9 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	11 U	10 U	9 U	10 U	10 U
2-Chloronaphthalene	UG/L	11 U	10 U	9 U	10 U	10 U
2-Chlorophenol	UG/L	11 U	10 U	9 U	10 U	10 U
2-Methylnaphthalene	UG/L	11 U	10 U	9 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	11 U	10 U	9 U	10 U	10 U
2-Nitroaniline	UG/L	56 U	50 U	47 U	48 U	52 U
2-Nitrophenol	UG/L	11 U	10 U	9 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	22 U	20 U	19 U	19 U	21 U
3-Nitroaniline	UG/L	56 U	50 U	47 U	48 U	52 U
4,6-Dinitro-2-methylphenol	UG/L	56 U	50 U	47 U	48 U	52 U
4-Bromophenyl-phenylether	UG/L	11 U	10 U	9 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	11 U	10 U	9 U	10 U	10 U
4-Chloroaniline	UG/L	11 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/03/03	12/03/03	12/05/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	11 U	10 U	9 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	11 U	10 U	9 U	10 U	10 U
4-Nitroaniline	UG/L	56 U	50 U	47 U	48 U	52 U
4-Nitrophenol	UG/L	56 U	50 U	47 U	48 U	52 U
Acenaphthene	UG/L	11 U	10 U	9 U	10 U	10 U
Acenaphthylene	UG/L	11 U	10 U	9 U	10 U	10 U
Acetophenone	UG/L	11 UJ	10 U	9 U	10 U	10 U
Anthracene	UG/L	11 U	10 U	9 U	10 U	10 U
Atrazine	UG/L	11 UJ	10 U	9 U	10 U	10 U
Benzaldehyde	UG/L	56 U	50 U	47 U	48 U	52 UJ
Benzo(a)anthracene	UG/L	11 U	10 U	9 U	10 U	10 U
Benzo(a)pyrene	UG/L	11 U	10 U	9 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	11 U	10 U	9 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	11 U	10 U	9 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	11 U	10 U	9 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	11 U	10 U	9 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	11 U	10 U	9 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	11 U	10 U	9 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	11 U	10 U	9 U	10 U	10 U
Butylbenzylphthalate	UG/L	11 U	10 U	9 U	10 U	10 U
Caprolactam	UG/L	11 UJ	10 U	9 U	10 U	10 UJ
Carbazole	UG/L	11 U	10 U	9 U	10 U	10 U
Chrysene	UG/L	11 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/03/03	12/03/03	12/05/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	11 U	10 U	9 U	10 U	10 U
Dibenzofuran	UG/L	11 U	10 U	9 U	10 U	10 U
Diethylphthalate	UG/L	11 U	10 U	9 U	10 U	10 U
Dimethylphthalate	UG/L	11 U	10 U	9 U	10 U	10 U
Di-n-butylphthalate	UG/L	11 U	10 U	9 U	10 U	10 U
Di-n-octylphthalate	UG/L	11 U	10 U	9 U	10 U	10 U
Fluoranthene	UG/L	11 U	10 U	9 U	10 U	10 U
Fluorene	UG/L	11 U	10 U	9 U	10 U	10 U
Hexachlorobenzene	UG/L	11 U	10 U	9 U	10 U	10 U
Hexachlorobutadiene	UG/L	11 U	10 U	9 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	26 U	24 U	22 U	22 U	24 U
Hexachloroethane	UG/L	11 U	10 U	9 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	11 U	10 U	9 U	10 U	10 U
Isophorone	UG/L	11 U	10 U	9 U	10 U	10 U
Naphthalene	UG/L	11 U	10 U	9 U	10 U	10 U
Nitrobenzene	UG/L	11 U	10 U	9 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	11 U	10 U	9 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	11 U	10 U	9 U	10 U	10 U
Pentachlorophenol	UG/L	56 U	50 U	47 U	48 U	52 U
Phenanthrene	UG/L	11 U	10 U	9 U	10 U	10 U
Phenol	UG/L	11 U	10 U	9 U	10 U	10 U
Pyrene	UG/L	11 U	10 U	9 U	10 U	10 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/03/03	12/03/03	12/05/03
Parameter	**Units**					
Pesticides						
4,4-DDD	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.072 UJ	0.072 U	0.070 U	0.070 U	0.072 U
gamma-BHC (Lindane)	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.50 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/03/03	12/03/03	12/05/03
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.4 U	2.4 U	2.1 U	2.7 U	2.4 U
Metals						
Arsenic	UG/L	10.0 U	16.2	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	713,000	3,900,000	124,000	157,000	138,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	128,000	1,720,000	43,600	45,900	39,600
Mercury	UG/L	0.200 U	0.200 UJ	0.200 U	0.200 U	0.200 UJ
Potassium	UG/L	21,800	198,000	1,310	3,330	3,320
Sodium	UG/L	581,000	12,800,000	9,760	20,300	18,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	236	192	291	309	280
Alkalinity, Total (as CaCO3)	MG/L	236	192	291	309	280
Chloride	MG/L	1,140	44,300	17.1	17.3	40.2
Hardness	MG/L	2,800	18,000	580	660	2,800
Monomethyl Mercury	NG/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5	GW03-009A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/03/03	12/03/03	12/05/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,560	1,820 J	199	271	216 J
Total Dissolved Solids	MG/L	4,360	56,900	611	739	664
Total Organic Carbon (TOC)	MG/L	2.0	2.0	3.2	7.3	4.2
Total Suspended Solids	MG/L	4.0 U	54.0	4.0 U	9.0	4.0 UJ
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	250	460	760	99	300
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/16/03	12/05/03	12/05/03	12/08/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	4.0 UJ	8.0 U	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	20 U	40 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-Pentanone	UG/L	20 U	40 U	5.0 U	5.0 U	5.0 UJ
Acetone	UG/L	20 U	R	5.0 U	5.0 U	5.0 U
Benzene	UG/L	4.0 U	94	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
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NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/16/03	12/05/03	12/05/03	12/08/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	4.0 U	8.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	4.0 U	4.3 J	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	4.0 U	82	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	4.0 U	21	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	4.0 U	2.6 J	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	4.0 U	R	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	20 U	40 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	100	8.0 U	86 D	110 D	120 D
Methylcyclohexane	UG/L	4.0 U	47	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	4.0 U	180	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	12 U	160	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U

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NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/16/03	12/05/03	12/05/03	12/08/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	4.0 U	8.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	5 J	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	48 UJ	49 U	50 U	51 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	5 J	10 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	48 U	49 U	50 U	51 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	20 U	20 U	20 U
3-Nitroaniline	UG/L	48 U	48 U	49 U	50 U	51 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	48 U	49 U	50 U	51 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/16/03	12/05/03	12/05/03	12/08/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	9 J	10 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	48 U	49 U	50 U	51 U
4-Nitrophenol	UG/L	48 U	48 U	49 U	50 U	51 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	48 UJ	48 U	49 UJ	50 UJ	51 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 UJ	26	10 UJ	10 UJ	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

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Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/16/03	12/05/03	12/05/03	12/08/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	23 U	24 U	24 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	48 U	49 U	50 U	51 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	4 J	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/16/03	12/05/03	12/05/03	12/08/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.051 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.070 U	0.072 U	0.072 U	0.074 U	0.072 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.48 U	0.49 U	0.50 U	0.50 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/16/03	12/05/03	12/05/03	12/08/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.48 U	0.49 U	0.50 U	0.50 U
Aroclor 1232	UG/L	0.48 U	0.48 U	0.49 U	0.50 U	0.50 U
Aroclor 1242	UG/L	0.48 U	0.48 U	0.49 U	0.50 U	0.50 U
Aroclor 1248	UG/L	0.48 U	0.48 U	0.49 U	0.50 U	0.50 U
Aroclor 1254	UG/L	0.48 U	0.48 U	0.49 U	0.50 U	0.50 U
Aroclor 1260	UG/L	0.48 U	0.48 U	0.49 U	0.50 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.5 U	3.5 U	2.5 U	3.5 U	3.3 U
Metals						
Arsenic	UG/L	10.0 U	20.3	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	2.4	2.3	2.3
Calcium	UG/L	574,000	3,610,000 J	176,000	180,000	189,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	60,000	1,640,000 J	51,900	48,800	56,900
Mercury	UG/L	0.200 UJ	0.200 U	0.200 UJ	0.200 UJ	0.200 U
Potassium	UG/L	6,390	188,000 J	7,100	7,310	8,030
Sodium	UG/L	53,900	12,200,000 J	503,000	460,000	491,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	295	193	360	365	342
Alkalinity, Total (as CaCO3)	MG/L	295	193	360	365	342
Chloride	MG/L	104	40,900	850	782	986
Hardness	MG/L	4,400	15,800	830	770	830
Monomethyl Mercury	NG/L	0.25 U	0.154 B	0.25 U	0.25 U	0.25 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5	GW03-009B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/16/03	12/05/03	12/05/03	12/08/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,410 J	3,240	156 J	236 J	152 J
Total Dissolved Solids	MG/L	1,390	7,340	2,010	2,050	2,100
Total Organic Carbon (TOC)	MG/L	2.8	1.1	1.7	1.9	1.8
Total Suspended Solids	MG/L	6.0	54.0	16.0 UJ	4.0 U	12.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	160	340 J	430	580	260
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/19/03	12/02/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	8.5 J	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/19/03	12/02/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	0.24 J	1.0 U	0.57 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	R	5.0 U	R	R
Methyl tert-butyl ether	UG/L	1.0 U	3.2	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.7	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/19/03	12/02/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	51 U	49 U	50 U	51 U	49 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	51 U	49 U	50 U	51 U	49 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	20 U	20 U	20 U
3-Nitroaniline	UG/L	51 U	49 U	50 U	51 U	49 U
4,6-Dinitro-2-methylphenol	UG/L	51 U	49 U	50 U	51 U	49 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/19/03	12/02/03	12/03/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	51 U	49 U	50 U	51 U	49 U
4-Nitrophenol	UG/L	51 U	49 U	50 U	51 U	49 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 UJ	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 UJ	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	51 U	49 U	50 U	51 U	49 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 UJ	10 U	23	10 UJ	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/19/03	12/02/03	12/03/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	23 U	24 U	24 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	51 U	49 U	50 U	51 U	49 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	2 J	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/19/03	12/02/03	12/03/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 UJ	0.050 U	0.050 U	0.051 U	0.050 U
4,4-DDE	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.071 UJ	0.069 U	0.071 U	0.074 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.49 U	0.50 U	0.49 U	0.47 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/19/03	12/02/03	12/03/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.49 U	0.50 U	0.49 U	0.47 U
Aroclor 1232	UG/L	0.50 U	0.49 U	0.50 U	0.49 U	0.47 U
Aroclor 1242	UG/L	0.50 U	0.49 U	0.50 U	0.49 U	0.47 U
Aroclor 1248	UG/L	0.50 U	0.49 U	0.50 U	0.49 U	0.47 U
Aroclor 1254	UG/L	0.50 U	0.49 U	0.50 U	0.49 U	0.47 U
Aroclor 1260	UG/L	0.50 U	0.49 U	0.50 U	0.49 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.4 U	2.0 U	7.9 U	1.3 U	1.8 UJ
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	16.3	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	552,000	628,000	2,590,000	183,000	395,000
Lead	UG/L	6.0 U	6.0 U	7.2	6.0 U	6.0 U
Magnesium	UG/L	123,000	63,800	1,180,000	42,700	72,900
Mercury	UG/L	0.200 U	0.200 UJ	0.200 UJ	0.200 U	0.200 U
Potassium	UG/L	16,100	9,250	108,000 J	2,620 J	3,400
Sodium	UG/L	99,800	133,000	7,980,000	71,100	47,700
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	277	228	196	296	253
Alkalinity, Total (as CaCO3)	MG/L	277	228	196	296	253
Chloride	MG/L	160	278	15,100	116	397
Hardness	MG/L	2,140	1,930	11,300	700	1,560
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4	GW03-010B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/03/03	12/19/03	12/02/03	12/03/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,400	1,730 J	2,090	491	791
Total Dissolved Solids	MG/L	2,670	2,830	36,900	963	1,010
Total Organic Carbon (TOC)	MG/L	1.4	1.7	1.4	4.8	1.8
Total Suspended Solids	MG/L	4.0 U	4.0 U	24.0	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	55	1 U	15,000	710	100
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	R	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	5.0 U	5.0 U	5.0 U	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.40 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	0.44 J	2.0
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	0.45 J	0.28 J
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	1.6	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	9 U	9 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U	9 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U	9 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	9 U	9 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	9 U	9 U
2,4-Dinitrophenol	UG/L	48 U	48 U	48 U	47 U	47 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	9 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	9 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	9 U	9 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	9 U	9 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	9 U	9 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	9 U	9 U
2-Nitroaniline	UG/L	48 U	48 U	48 U	47 U	47 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	9 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	48 U	48 U	48 U	47 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	48 U	48 U	47 U	47 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	9 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	9 U	9 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	9 U	9 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	9 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	9 U	9 U
4-Nitroaniline	UG/L	48 U	48 U	48 U	47 U	47 U
4-Nitrophenol	UG/L	48 U	48 U	48 U	47 U	47 U
Acenaphthene	UG/L	10 U	10 U	10 U	9 U	9 U
Acenaphthylene	UG/L	10 U	10 U	10 U	9 U	9 U
Acetophenone	UG/L	10 U	10 U	10 U	9 U	9 U
Anthracene	UG/L	10 U	10 U	10 U	9 U	9 U
Atrazine	UG/L	10 U	10 U	10 U	9 U	9 U
Benzaldehyde	UG/L	48 U	48 U	48 U	47 U	47 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	9 U	9 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	9 U	9 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	9 U	9 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	9 U	9 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	9 U	9 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	9 U	9 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	9 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	9 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	9 U	9 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	9 U	9 U
Caprolactam	UG/L	10 U	10 UJ	10 UJ	9 UJ	9 U
Carbazole	UG/L	10 U	10 U	10 U	9 U	9 U
Chrysene	UG/L	10 U	10 U	10 U	9 U	9 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	9 U	9 U
Dibenzofuran	UG/L	10 U	10 U	10 U	9 U	9 U
Diethylphthalate	UG/L	10 U	10 U	10 U	9 U	9 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	9 U	9 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	9 U	9 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	9 U	9 U
Fluoranthene	UG/L	10 U	10 U	10 U	9 U	9 U
Fluorene	UG/L	10 U	10 U	10 U	9 U	9 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	9 U	9 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	9 U	9 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	22 U	22 U	22 U
Hexachloroethane	UG/L	10 U	10 U	10 U	9 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	9 U	9 U
Isophorone	UG/L	10 U	10 U	10 U	9 U	9 U
Naphthalene	UG/L	10 U	10 U	10 U	9 U	9 U
Nitrobenzene	UG/L	10 U	10 U	10 U	9 U	9 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	9 U	9 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	9 U	9 U
Pentachlorophenol	UG/L	48 U	48 U	48 U	47 U	47 U
Phenanthrene	UG/L	10 U	10 U	10 U	9 U	9 U
Phenol	UG/L	10 U	10 U	10 U	9 U	9 U
Pyrene	UG/L	10 U	10 U	10 U	9 U	9 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.070 U	0.070 U	0.069 U	0.068 U	0.068 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.49 U	0.48 U	0.47 U	0.47 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.49 U	0.48 U	0.47 U	0.47 U
Aroclor 1232	UG/L	0.48 U	0.49 U	0.48 U	0.47 U	0.47 U
Aroclor 1242	UG/L	0.48 U	0.49 U	0.48 U	0.47 U	0.47 U
Aroclor 1248	UG/L	0.48 U	0.49 U	0.48 U	0.47 U	0.47 U
Aroclor 1254	UG/L	0.48 U	0.49 U	0.48 U	0.47 U	0.47 U
Aroclor 1260	UG/L	0.48 U	0.49 U	0.48 U	0.47 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.3 U	1.7 U	1.7 U	2.3 U	1.7 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	12.1
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	598,000	142,000	343,000	1,150,000	3,130,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	72,700	43,500	102,000	296,000	1,080,000
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 UJ
Potassium	UG/L	10,300	4,200	10,800	39,900	156,000
Sodium	UG/L	136,000	358,000	129,000	1,760,000	8,900,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	251	334	354	345	279
Alkalinity, Total (as CaCO3)	MG/L	251	334	354	345	279
Chloride	MG/L	278	872	228	3,980	27,800
Hardness	MG/L	2,040	660	625	4,500	13,900
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2	GW03-011A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,430	130	889	1,370	1,620 J
Total Dissolved Solids	MG/L	2,740	1,510	2,040	9,100	41,900
Total Organic Carbon (TOC)	MG/L	1.4	2.0	5.1	2.7	1.0 U
Total Suspended Solids	MG/L	4.0 U	13.0	10.0	20.0	96.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	230	950	110	160	2 J
Total Coliform	C/100 ML	60	90	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	POS	POS	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/02/03	12/03/03	12/16/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	NA	1.0 U	R	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	NA	5.0 U	R	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	NA	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	NA	R	R	R
Benzene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/02/03	12/03/03	12/16/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	NA	1.0 UJ	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	0.34 J	NA	0.33 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	NA	1.0 UJ	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	NA	1.0 U	1.0 U	R
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	NA	R	R	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	NA	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/02/03	12/03/03	12/16/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9 U	NA	9 U	9 U	9 U
2,4,5-Trichlorophenol	UG/L	9 U	NA	9 U	9 U	9 U
2,4,6-Trichlorophenol	UG/L	9 U	NA	9 U	9 U	9 U
2,4-Dichlorophenol	UG/L	9 U	NA	9 U	9 U	9 U
2,4-Dimethylphenol	UG/L	9 U	NA	9 U	9 U	9 U
2,4-Dinitrophenol	UG/L	47 U	NA	47 U	47 U	47 UJ
2,4-Dinitrotoluene	UG/L	9 U	NA	9 U	9 U	9 U
2,6-Dinitrotoluene	UG/L	9 U	NA	9 U	9 U	9 U
2-Chloronaphthalene	UG/L	9 U	NA	9 U	9 U	9 U
2-Chlorophenol	UG/L	9 U	NA	9 U	9 U	9 U
2-Methylnaphthalene	UG/L	9 U	NA	9 U	9 U	9 U
2-Methylphenol (o-cresol)	UG/L	9 U	NA	9 U	9 U	9 U
2-Nitroaniline	UG/L	47 U	NA	47 U	47 U	47 U
2-Nitrophenol	UG/L	9 U	NA	9 U	9 U	9 U
3,3-Dichlorobenzidine	UG/L	19 U	NA	19 U	19 U	19 U
3-Nitroaniline	UG/L	47 U	NA	47 U	47 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	NA	47 U	47 U	47 U
4-Bromophenyl-phenylether	UG/L	9 U	NA	9 U	9 U	9 U
4-Chloro-3-methylphenol	UG/L	9 U	NA	9 U	9 U	9 U
4-Chloroaniline	UG/L	9 U	NA	9 U	9 U	9 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/02/03	12/03/03	12/16/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	9 U	NA	9 U	9 U	9 U
4-Methylphenol (p-cresol)	UG/L	9 U	NA	9 U	9 U	9 U
4-Nitroaniline	UG/L	47 U	NA	47 U	47 U	47 U
4-Nitrophenol	UG/L	47 U	NA	47 U	47 U	47 U
Acenaphthene	UG/L	9 U	NA	9 U	9 U	9 U
Acenaphthylene	UG/L	9 U	NA	9 U	9 U	9 U
Acetophenone	UG/L	9 U	NA	9 U	9 U	9 U
Anthracene	UG/L	9 U	NA	9 U	9 U	9 U
Atrazine	UG/L	9 U	NA	9 U	9 U	9 U
Benzaldehyde	UG/L	47 U	NA	47 U	47 U	47 U
Benzo(a)anthracene	UG/L	9 U	NA	9 U	9 U	9 U
Benzo(a)pyrene	UG/L	9 U	NA	9 U	9 U	9 U
Benzo(b)fluoranthene	UG/L	9 U	NA	9 U	9 U	9 U
Benzo(g,h,i)perylene	UG/L	9 U	NA	9 U	9 U	9 U
Benzo(k)fluoranthene	UG/L	9 U	NA	9 U	9 U	9 U
bis(2-Chloroethoxy)methane	UG/L	9 U	NA	9 U	9 U	9 U
bis(2-Chloroethyl)ether	UG/L	9 U	NA	9 U	9 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	NA	9 U	9 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	NA	9 U	9 U	9 U
Butylbenzylphthalate	UG/L	9 U	NA	9 U	9 U	9 U
Caprolactam	UG/L	9 UJ	NA	9 UJ	9 U	9 U
Carbazole	UG/L	9 U	NA	9 U	9 U	9 U
Chrysene	UG/L	9 U	NA	9 U	9 U	9 U

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TABLE 2
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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/02/03	12/03/03	12/16/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	9 U	NA	9 U	9 U	9 U
Dibenzofuran	UG/L	9 U	NA	9 U	9 U	9 U
Diethylphthalate	UG/L	9 U	NA	9 U	9 U	9 U
Dimethylphthalate	UG/L	9 U	NA	9 U	9 U	9 U
Di-n-butylphthalate	UG/L	9 U	NA	9 U	9 U	9 U
Di-n-octylphthalate	UG/L	9 U	NA	9 U	9 U	7 J
Fluoranthene	UG/L	9 U	NA	9 U	9 U	9 U
Fluorene	UG/L	9 U	NA	9 U	9 U	9 U
Hexachlorobenzene	UG/L	9 U	NA	9 U	9 U	9 U
Hexachlorobutadiene	UG/L	9 U	NA	9 U	9 U	9 U
Hexachlorocyclopentadiene	UG/L	22 U	NA	22 U	22 U	22 U
Hexachloroethane	UG/L	9 U	NA	9 U	9 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	NA	9 U	9 U	9 U
Isophorone	UG/L	9 U	NA	9 U	9 U	9 U
Naphthalene	UG/L	9 U	NA	9 U	9 U	9 U
Nitrobenzene	UG/L	9 U	NA	9 U	9 U	9 U
N-Nitroso-di-n-propylamine	UG/L	9 U	NA	9 U	9 U	9 U
N-Nitrosodiphenylamine	UG/L	9 U	NA	9 U	9 U	9 U
Pentachlorophenol	UG/L	47 U	NA	47 U	47 U	47 U
Phenanthrene	UG/L	9 U	NA	9 U	9 U	9 U
Phenol	UG/L	9 U	NA	9 U	9 U	9 U
Pyrene	UG/L	9 U	NA	9 U	9 U	9 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/02/03	12/03/03	12/16/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	NA	0.069 U	0.068 U	0.068 U	0.070 U
gamma-BHC (Lindane)	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	NA	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	NA	0.47 U	0.47 U	0.47 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/02/03	12/03/03	12/16/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	NA	0.47 U	0.47 U	0.47 U
Aroclor 1232	UG/L	0.47 U	NA	0.47 U	0.47 U	0.47 U
Aroclor 1242	UG/L	0.47 U	NA	0.47 U	0.47 U	0.47 U
Aroclor 1248	UG/L	0.47 U	NA	0.47 U	0.47 U	0.47 U
Aroclor 1254	UG/L	0.47 U	NA	0.47 U	0.47 U	0.47 U
Aroclor 1260	UG/L	0.47 U	NA	0.47 U	0.47 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	2.0 U	0.96 U	1.0 U	4.4 U
Metals						
Arsenic	UG/L	10.0 U	NA	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Calcium	UG/L	90,800	NA	87,100	188,000	222,000
Lead	UG/L	6.0 U	NA	6.0 U	6.0 U	9.7
Magnesium	UG/L	67,900	NA	74,400	49,600	60,800
Mercury	UG/L	0.200 U	NA	0.200 U	0.200 U	0.200 U
Potassium	UG/L	1,740 J	NA	2,450 J	10,900	4,230
Sodium	UG/L	39,800	NA	38,200	26,800	417,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	384	NA	371	336	341
Alkalinity, Total (as CaCO3)	MG/L	384	NA	371	336	341
Chloride	MG/L	20.5	NA	36.6	6.3	586
Hardness	MG/L	548	NA	548	800	819
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	12/02/03	12/03/03	12/16/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	164	NA	169	416	320
Total Dissolved Solids	MG/L	622	NA	652	953	1,960
Total Organic Carbon (TOC)	MG/L	5.2	NA	2.2	2.2	2.1
Total Suspended Solids	MG/L	4.0 U	NA	4.0 U	4.0 U	4.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	310	NA	42,000	390	230
Total Coliform	C/100 ML	20 U	NA	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Sample ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	12/17/03	12/16/03	12/16/03	12/15/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	20 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	20 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	52 J	R	9.1 J	R	R
Benzene	UG/L	110	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Sample ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	12/17/03	12/16/03	12/16/03	12/15/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	4.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	4.0 U	1.0 U	1.8	0.34 J	1.0 U
Carbon Tetrachloride	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroform	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	15	1.0 U	0.34 J	0.59 J	1.0 U
Dibromochloromethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	4.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	3.4 J	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	4.0 U	1.0 U	R	R	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	30	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	3.0 J	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	55	1.0 U	1.4	1.0 U	1.0 U
Total Xylenes	UG/L	38	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Sample ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	12/17/03	12/16/03	12/16/03	12/15/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	NA	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	NA	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	NA	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	NA	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	4 J	NA	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	NA	50 UJ	48 UJ	48 UJ
2,4-Dinitrotoluene	UG/L	10 U	NA	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	NA	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	NA	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	NA	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	NA	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	4 J	NA	10 U	10 U	10 U
2-Nitroaniline	UG/L	50 U	NA	50 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	NA	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	NA	20 U	19 U	19 U
3-Nitroaniline	UG/L	50 U	NA	50 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	NA	50 U	48 U	48 UJ
4-Bromophenyl-phenylether	UG/L	10 U	NA	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	NA	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	NA	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Sample ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	12/17/03	12/16/03	12/16/03	12/15/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	NA	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	5 J	NA	10 U	10 U	10 U
4-Nitroaniline	UG/L	50 U	NA	50 U	48 U	48 U
4-Nitrophenol	UG/L	50 U	NA	50 U	48 U	48 U
Acenaphthene	UG/L	10 U	NA	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	NA	10 U	10 U	10 U
Acetophenone	UG/L	10 U	NA	10 U	10 U	10 U
Anthracene	UG/L	10 U	NA	10 U	10 U	10 U
Atrazine	UG/L	10 U	NA	10 U	10 U	10 U
Benzaldehyde	UG/L	50 U	NA	50 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	NA	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	NA	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	NA	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	NA	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	NA	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	NA	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	NA	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	NA	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	NA	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Caprolactam	UG/L	25	NA	60	9 J	6 J
Carbazole	UG/L	10 U	NA	10 U	10 U	10 U
Chrysene	UG/L	10 U	NA	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Sample ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	12/17/03	12/16/03	12/16/03	12/15/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	NA	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	NA	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	NA	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	NA	10 U	10 U	10 U
Fluorene	UG/L	10 U	NA	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	NA	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	NA	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	NA	23 U	23 U	23 U
Hexachloroethane	UG/L	10 U	NA	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	NA	10 U	10 U	10 U
Isophorone	UG/L	10 U	NA	10 U	10 U	10 U
Naphthalene	UG/L	10 U	NA	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	NA	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	NA	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	NA	10 U	10 U	10 U
Pentachlorophenol	UG/L	50 U	NA	50 U	48 U	48 U
Phenanthrene	UG/L	10 U	NA	10 U	10 U	10 U
Phenol	UG/L	10	NA	10 U	10 U	10 U
Pyrene	UG/L	10 U	NA	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Sample ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	12/17/03	12/16/03	12/16/03	12/15/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.052 U	NA	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.075 U	NA	0.070 U	0.071 U	0.069 U
gamma-BHC (Lindane)	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.49 U	NA	0.51 U	0.48 U	0.50 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Sample ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	12/17/03	12/16/03	12/16/03	12/15/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.49 U	NA	0.51 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.49 U	NA	0.51 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.49 U	NA	0.51 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.49 U	NA	0.51 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.49 U	NA	0.51 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.49 U	NA	0.51 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	5.5 U	NA	5.5 U	5.7 U	6.2 U
Metals						
Arsenic	UG/L	10.0 U	NA	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	NA	1.4	1.0 U	1.1
Calcium	UG/L	8,100,000	NA	633,000	283,000	142,000
Lead	UG/L	38.9 J	NA	55.6	6.0 U	6.0 U
Magnesium	UG/L	2,990,000	NA	87,800	44,900	43,100
Mercury	UG/L	0.200 UJ	NA	0.200 U	0.200 U	0.200 U
Potassium	UG/L	435,000 J	NA	13,700	11,600	2,530
Sodium	UG/L	27,100,000	NA	295,000	383,000	392,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	155	282	308	309	321
Alkalinity, Total (as CaCO3)	MG/L	155	282	308	309	321
Chloride	MG/L	7,710	NA	362	1,520	581
Hardness	MG/L	37,400	1,090	1,850	1,030	597
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Sample ID		GW03-012A-P3	GW03-012B-P4	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	12/17/03	12/16/03	12/16/03	12/15/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	4,840	NA	1,490	864	252
Total Dissolved Solids	MG/L	94,500	NA	3,100	2,020	1,460
Total Organic Carbon (TOC)	MG/L	1.0	2.9	2.4	1.8	2.1
Total Suspended Solids	MG/L	247	NA	368	23.0	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1,100	NA	44,000	470	6,500
Total Coliform	C/100 ML	20 U	NA	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/08/03	12/04/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 UJ	5.0 U	5.0 U
Acetone	UG/L	R	R	5.0 U	R	R
Benzene	UG/L	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/08/03	12/04/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.30 J
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.1	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.7	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	0.93 J	1.0 U	0.51 J
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	0.49 J	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/08/03	12/04/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	9 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	48 U	47 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	9 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	9 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	48 U	47 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	9 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	48 U	48 U	47 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	48 U	47 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	9 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	9 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/08/03	12/04/03	12/04/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	9 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	9 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	48 U	47 U	48 U	48 U
4-Nitrophenol	UG/L	48 U	48 U	47 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	9 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	9 U	10 U	10 U
Acetophenone	UG/L	10 UJ	10 UJ	9 U	10 UJ	10 UJ
Anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Atrazine	UG/L	10 UJ	10 UJ	9 U	10 UJ	10 UJ
Benzaldehyde	UG/L	48 U	48 U	47 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Caprolactam	UG/L	10 UJ	10 UJ	9 U	10 UJ	10 UJ
Carbazole	UG/L	10 U	10 U	9 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/08/03	12/04/03	12/04/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	9 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	22 U	22 U	22 U	22 U	22 U
Hexachloroethane	UG/L	10 U	10 U	9 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	9 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	9 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	9 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	9 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	9 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	48 U	47 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	9 U	10 U	10 U
Phenol	UG/L	10 U	10 U	9 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/08/03	12/04/03	12/04/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
4,4-DDE	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
4,4-DDT	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Aldrin	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
alpha-BHC	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
alpha-Chlordane	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
beta-BHC	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
delta-BHC	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Dieldrin	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Endosulfan I	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Endosulfan II	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Endosulfan sulfate	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Endrin	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Endrin aldehyde	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Endrin ketone	UG/L	0.068 UJ	0.068 UJ	0.069 U	0.068 UJ	0.068 UJ
gamma-BHC (Lindane)	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
gamma-Chlordane	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Heptachlor	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Heptachlor epoxide	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Methoxychlor	UG/L	0.050 UJ	0.050 UJ	0.050 U	0.050 UJ	0.050 UJ
Toxaphene	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	0.47 U	0.48 U	0.48 U	0.47 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/08/03	12/04/03	12/04/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1232	UG/L	0.47 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1242	UG/L	0.47 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1248	UG/L	0.47 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1254	UG/L	0.47 U	0.47 U	0.48 U	0.48 U	0.47 U
Aroclor 1260	UG/L	0.47 U	0.47 U	0.48 U	0.48 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.3 U	2.0 U	2.7 U	3.4 U	3.6 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	144,000	118,000	150,000	144,000	326,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	46,500	27,800	38,200	46,900	55,000
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 UJ	0.200 UJ
Potassium	UG/L	3,120 J	4,440	13,900	2,920	9,530
Sodium	UG/L	330,000	99,400	294,000	324,000	116,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	296	151	129	296	306
Alkalinity, Total (as CaCO3)	MG/L	296	151	129	296	306
Chloride	MG/L	546	243	606	762	309
Hardness	MG/L	610	501	3,800	650	1,150
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P1	GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/08/03	12/04/03	12/04/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	243	211	267 J	242 J	739 J
Total Dissolved Solids	MG/L	1,410	753	1,490	1,370	1,680
Total Organic Carbon (TOC)	MG/L	2.1	1.7	1.0	1.9	1.8
Total Suspended Solids	MG/L	10.0	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	740 J	360	16,000	910	1,500
Total Coliform	C/100 ML	20 UJ	200	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	POS	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Sample ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/15/03	12/18/03	12/18/03	12/05/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	0.45 J
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U
Acetone	UG/L	5.0 U	R	R	R	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	120	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Sample ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/15/03	12/18/03	12/18/03	12/05/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 UJ	5.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.4	1.0 U	5.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	5.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	0.31 J	22	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	5.8	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	5.1	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Toluene	UG/L	1.0 U	0.40 J	1.0 U	95	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	57	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Sample ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/15/03	12/18/03	12/18/03	12/05/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	NA	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	50 UJ	NA	49 U	50 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	NA	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	NA	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	NA	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	NA	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	NA	10 U	10 U
2-Nitroaniline	UG/L	48 U	50 U	NA	49 U	50 U
2-Nitrophenol	UG/L	10 U	10 U	NA	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	NA	20 U	20 U
3-Nitroaniline	UG/L	48 U	50 U	NA	49 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	50 U	NA	49 U	50 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	NA	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	NA	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	NA	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Sample ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/15/03	12/18/03	12/18/03	12/05/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	NA	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	NA	10 U	10 U
4-Nitroaniline	UG/L	48 U	50 U	NA	49 U	50 U
4-Nitrophenol	UG/L	48 U	50 U	NA	49 U	50 U
Acenaphthene	UG/L	10 U	10 U	NA	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	NA	10 U	10 U
Acetophenone	UG/L	10 U	10 U	NA	10 U	10 U
Anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Atrazine	UG/L	10 U	10 U	NA	10 U	10 U
Benzaldehyde	UG/L	48 UJ	50 U	NA	49 U	50 UJ
Benzo(a)anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	NA	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Caprolactam	UG/L	10 UJ	20	NA	10 U	10 UJ
Carbazole	UG/L	10 U	10 U	NA	10 U	10 U
Chrysene	UG/L	10 U	10 U	NA	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Sample ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/15/03	12/18/03	12/18/03	12/05/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	NA	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
Fluorene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	24 U	NA	23 U	24 U
Hexachloroethane	UG/L	10 U	10 U	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	NA	10 U	10 U
Isophorone	UG/L	10 U	10 U	NA	10 U	10 U
Naphthalene	UG/L	10 U	10 U	NA	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	NA	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	NA	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	NA	10 U	10 U
Pentachlorophenol	UG/L	48 U	50 U	NA	49 U	50 U
Phenanthrene	UG/L	10 U	10 U	NA	10 U	10 U
Phenol	UG/L	10 U	10 U	NA	10 U	10 U
Pyrene	UG/L	10 U	10 U	NA	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Sample ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/15/03	12/18/03	12/18/03	12/05/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.052 U	0.052 U	NA	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin ketone	UG/L	0.075 U	0.075 U	NA	0.069 U	0.072 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.51 U	NA	0.50 U	0.50 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Sample ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/15/03	12/18/03	12/18/03	12/05/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.51 U	NA	0.50 U	0.50 U
Aroclor 1232	UG/L	0.48 U	0.51 U	NA	0.50 U	0.50 U
Aroclor 1242	UG/L	0.48 U	0.51 U	NA	0.50 U	0.50 U
Aroclor 1248	UG/L	0.48 U	0.51 U	NA	0.50 U	0.50 U
Aroclor 1254	UG/L	0.48 U	0.51 U	NA	0.50 U	0.50 U
Aroclor 1260	UG/L	0.48 U	0.51 U	NA	0.50 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	4.4 U	5.4 U	NA	2.0 U	2.8 U
Metals						
Arsenic	UG/L	10.0 U	32.3	10.0 U	10.3	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	2.0	1.0 U	1.0 U
Calcium	UG/L	213,000	660,000	2,150,000 J	3,010,000 J	204,000
Lead	UG/L	7.4	6.0 U	12.8	6.0 U	6.0 U
Magnesium	UG/L	63,200	178,000	618,000 J	941,000 J	55,000
Mercury	UG/L	0.200 UJ	0.200 U	0.200 UJ	0.200 UJ	0.200 UJ
Potassium	UG/L	5,070	12,000	87,000 J	623,000 J	5,110
Sodium	UG/L	23,700	695,000	6,480,000 J	6,020,000 J	102,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	350	488	166	68.5	306
Alkalinity, Total (as CaCO3)	MG/L	350	488	166	68.5	306
Chloride	MG/L	28.1	1,120	14,700	96,600	184
Hardness	MG/L	860	3,710	8,800	65,400	830
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Sample ID		GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3	GW03-014B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	12/15/03	12/18/03	12/18/03	12/05/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	577 J	2,000	1,920	1,590	444 J
Total Dissolved Solids	MG/L	884	4,660	21,200	134,000	1,180
Total Organic Carbon (TOC)	MG/L	3.5	2.9	2.1	1.0 U	2.3
Total Suspended Solids	MG/L	360	236	352	80.0	8.0 UJ
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	93,000	2,100	16,000	1,200 J	28 J
Total Coliform	C/100 ML	20	20 U	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	POS	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Sample ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	0.49 J	0.87 J	0.43 J	0.68 J	5.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	0.42 J	1.0 U	1.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	0.29 J	1.0 U	1.0 U	5.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 U	5.0 U	5.0 U	25 U
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 U	5.0 U	5.0 U	25 U
Acetone	UG/L	5.0 U	R	R	R	61 J
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.4 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Sample ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	5.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	8.6
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Tetrachloroethene	UG/L	1.0 U	1.0	1.0 U	0.35 J	5.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.9 J
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	15 U
Trichloroethene	UG/L	1.0 U	1.7	1.0 U	1.1	5.0 U

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Sample ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Vinyl Chloride	UG/L	1.8	1.0 U	1.0 U	1.0 U	5.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	11 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	11 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	11 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	11 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	11 U	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	49 U	55 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	11 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	11 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	11 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	11 U	1 J	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	11 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	11 U	10 U	10 U
2-Nitroaniline	UG/L	50 U	49 U	55 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	11 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	22 U	19 U	19 U
3-Nitroaniline	UG/L	50 U	49 U	55 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	49 U	55 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	11 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	11 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	11 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Sample ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	11 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	11 U	10 U	10 U
4-Nitroaniline	UG/L	50 U	49 U	55 U	48 U	48 U
4-Nitrophenol	UG/L	50 U	49 U	55 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	11 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	11 U	10 U	10 U
Acetophenone	UG/L	10 U	10 UJ	11 UJ	10 UJ	10 UJ
Anthracene	UG/L	10 U	10 U	11 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	11 UJ	10 U	10 U
Benzaldehyde	UG/L	50 U	49 U	55 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	11 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	11 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	11 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	11 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	11 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	11 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	11 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	11 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Caprolactam	UG/L	10 U	10 UJ	11 UJ	10 UJ	44 J
Carbazole	UG/L	10 U	10 U	11 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	11 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Sample ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	11 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	11 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	11 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	11 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	11 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	11 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	23 UJ	26 U	23 UJ	23 UJ
Hexachloroethane	UG/L	10 U	10 U	11 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	11 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	11 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	11 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	11 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	11 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	11 U	10 U	10 U
Pentachlorophenol	UG/L	50 U	49 U	55 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	11 U	10 U	10 U
Phenol	UG/L	10 U	10 U	11 U	10 U	16
Pyrene	UG/L	10 U	10 U	11 U	1 J	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Sample ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.031 J	0.050 UJ	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.048 J	0.050 UJ	0.057 J	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Endrin ketone	UG/L	0.072 U	0.069 U	0.072 UJ	0.069 U	0.069 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 UJ	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.48 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Sample ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.50 U	0.50 U	0.50 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.9 U	2.5 U	2.7 U	3.3 U	3.2 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	17.0
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	331,000	102,000	128,000	70,500	4,680,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	54,000	12,900	27,400	12,700	1,420,000
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	R
Potassium	UG/L	8,510	2,140	4,740	1,790	240,000
Sodium	UG/L	84,500	16,900	387,000	19,400	12,800,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	306	115	220	112	246
Alkalinity, Total (as CaCO3)	MG/L	306	115	220	112	246
Chloride	MG/L	152	46.2	10.5	38.0	33,400
Hardness	MG/L	1,420	360	490	240	19,800
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Sample ID		GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1	GW03-015A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/04/03	12/08/03	12/10/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	747 J	270	248	182	1,560
Total Dissolved Solids	MG/L	1,610	431	1,440	328	52,500
Total Organic Carbon (TOC)	MG/L	2.6	1.0	3.4	1.1	1.0 U
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	4.0 U	6.7
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	21 J	47	580	150	1,900
Total Coliform	C/100 ML	20 U	20	160	20	20 U
Fecal Coliform	C/100 ML	NA	NA	20 U	20 U	NA
E Coli	POS/NEG	NEG	NEG	POS	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	12/08/03	12/10/03	12/09/03	12/09/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.2	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	3.3	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	17	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	3.5	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	41 DJ	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	52 D	1.0 U	0.74 J
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	62 D	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	2.1	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	12/08/03	12/10/03	12/09/03	12/09/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	0.42 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	0.40 J	1.0 U	0.28 J
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	32	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	2.8	1.0 U	1.1	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	0.30 J	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	R	R	R
Methyl tert-butyl ether	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	UG/L	0.83 J	1.0 U	1.6	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	190 D	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	1.6 J	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.2	0.44 J	1.0 U

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TABLE 2
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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	12/08/03	12/10/03	12/09/03	12/09/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	720 D	1.0 U	1.9
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	50 U	48 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	50 U	48 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	12/08/03	12/10/03	12/09/03	12/09/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	48 U
4-Nitrophenol	UG/L	48 U	50 U	48 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	48 U	50 U	48 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	12/08/03	12/10/03	12/09/03	12/09/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 UJ	24 UJ	22 UJ	22 UJ	23 UJ
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	50 U	48 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	12/08/03	12/10/03	12/09/03	12/09/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.053 J
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.069 U	0.069 U	0.069 U	0.069 U	0.069 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	12/08/03	12/10/03	12/09/03	12/09/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	3.1 U	2.8 U	2.2 U	1.9 U	1.4 U
Metals						
Arsenic	UG/L	14.3	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	4,560,000	225,000	508,000	74,700	105,000
Lead	UG/L	16.6	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	1,610,000	57,700	76,000	17,600	42,600
Mercury	UG/L	R	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	228,000	3,220	14,700	2,850	2,920
Sodium	UG/L	14,200,000	110,000	236,000	72,900	28,700
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	152	310	71.1	5.0 U	99.1
Alkalinity, Total (as CaCO3)	MG/L	152	310	71.1	5.0 U	99.1
Chloride	MG/L	33,500	310	789	194	35.0
Hardness	MG/L	18,300	910	1,580	264	468
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	12/08/03	12/10/03	12/09/03	12/09/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,230	620	943	79.3	312
Total Dissolved Solids	MG/L	52,400	1,260	2,640	526	668
Total Organic Carbon (TOC)	MG/L	2.5	2.2	4.2	1.0 U	1.8
Total Suspended Solids	MG/L	560	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	11,000	170	4 J	150	26 J
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	20
Fecal Coliform	C/100 ML	NA	NA	NA	20 U	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/16/03	12/11/03	12/12/03	12/17/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	3.2	4.0 U	0.27 J	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	8.0	0.99 J	12	18	8.0
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	4.9	0.40 J	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	2.6	4.0 U	0.69 J	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	5.7	1.0 J	0.74 J	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	20 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	20 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	5.0	0.44 J	79	20	0.62 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
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NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/16/03	12/11/03	12/12/03	12/17/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	0.86 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	7.9	4.9	1.5	0.80 J
Chloroethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	52	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 UJ
Ethylbenzene	UG/L	1.0 U	1.0 U	8.1	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	0.98 J	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	R	4.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	R	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	4.0 UJ	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	14	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	6.1	1.0 U	4.0 U	1.3	1.2
Toluene	UG/L	1.0 U	1.0 U	85	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	79	3.0 U	3.0 U
Trichloroethene	UG/L	10	0.26 J	1.2 J	2.2	3.4

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NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/16/03	12/11/03	12/12/03	12/17/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	4.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	2.0	1.0 U	51	7.5	2.8
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	50 UJ	48 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	50 U	48 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
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NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/16/03	12/11/03	12/12/03	12/17/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	48 U
4-Nitrophenol	UG/L	48 U	50 U	48 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	48 U	50 U	48 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 UJ	10 U	10 UJ	10 UJ	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/16/03	12/11/03	12/12/03	12/17/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 UJ	24 U	22 UJ	23 UJ	22 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	4 J	10 U	6 J	4 J	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	50 U	48 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/16/03	12/11/03	12/12/03	12/17/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.074	0.087 J	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.078	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.069 U	0.072 U	0.070 U	0.069 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.50 U	0.50 U	0.48 U	0.48 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/16/03	12/11/03	12/12/03	12/17/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.48 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.48 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.48 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.48 U	0.50 U	0.50 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.48 U	0.50 U	0.50 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	3.2 U	4.5 U	4.3 U	2.9 U	6.1 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	73,800	411,000	1,050,000	89,700	149,000
Lead	UG/L	6.0 UJ	6.0 U	6.0 UJ	6.0 UJ	6.0 U
Magnesium	UG/L	10,100	12,500	271,000	12,800	26,400
Mercury	UG/L	0.200 UJ	0.200 U	0.200 U	0.200 UJ	0.200 UJ
Potassium	UG/L	4,800	3,600	51,400	1,250	1,740
Sodium	UG/L	28,700	18,400	2,540,000	31,600	53,600
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	106	109	245	115	142
Alkalinity, Total (as CaCO3)	MG/L	106	109	245	115	142
Chloride	MG/L	23.5	27.2	4,770	27.1	49.8
Hardness	MG/L	272	1,160	4,940	293	548
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4	GW03-016B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/16/03	12/11/03	12/12/03	12/17/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	200	905	1,480	154	444
Total Dissolved Solids	MG/L	395	1,550	8,720	350	740
Total Organic Carbon (TOC)	MG/L	1.3	1.1	1.0 U	1.2	1.2
Total Suspended Solids	MG/L	8.0	4.0 U	40.0	4.0 U	7.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1,400	47	4,100	2,200	5,200
Total Coliform	C/100 ML	20 U	20 U	460	40	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	POS	POS	NEG

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/17/03	12/17/03	12/12/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,2-Dichlorobenzene	UG/L	0.22 J	1.0 U	0.32 J	5.0 U	10 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,2-Dichloroethene (cis)	UG/L	2.0	1.1	3.5	100	270
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	4.9 J	10
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,3-Dichlorobenzene	UG/L	0.44 J	1.0 U	1.3	5.0 U	10 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
1,4-Dichlorobenzene	UG/L	0.81 J	1.0 U	1.3	5.0 U	10 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	25 U	50 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	25 U	50 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	0.50 J	2.0 J	9.8 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/17/03	12/17/03	12/12/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 UJ	5.0 UJ	10 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Chlorobenzene	UG/L	1.0	1.0 U	1.2	5.0 U	10 U
Chloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	5.0 U	10 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	25 U	50 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Tetrachloroethene	UG/L	0.35 J	0.51 J	1.4	5.0 U	10 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	15 U	30 U
Trichloroethene	UG/L	0.88 J	1.1	3.0	5.0 U	4.7 J

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/17/03	12/17/03	12/12/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	5.0 U	10 U
Vinyl Chloride	UG/L	1.4	1.0 U	1.0 U	130	170
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	9 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 UJ	50 UJ	47 U	48 U	50 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	9 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	9 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	50 U	47 U	48 U	50 U
2-Nitrophenol	UG/L	10 U	10 U	9 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	19 U	19 U	20 U
3-Nitroaniline	UG/L	48 U	50 U	47 U	48 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	50 U	47 U	48 U	50 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	9 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	9 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/17/03	12/17/03	12/12/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	9 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	9 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	50 U	47 U	48 U	50 U
4-Nitrophenol	UG/L	48 U	50 U	47 U	48 U	50 U
Acenaphthene	UG/L	10 U	10 U	9 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	9 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	9 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	9 U	10 U	10 U
Benzaldehyde	UG/L	48 U	50 U	47 U	48 U	50 U
Benzo(a)anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	7 J	8 J	10 UJ
Carbazole	UG/L	10 U	10 U	9 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/17/03	12/17/03	12/12/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	9 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	22 U	24 U	22 U	22 U	24 UJ
Hexachloroethane	UG/L	10 U	10 U	9 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	9 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	9 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	9 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	9 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	9 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	50 U	47 U	48 U	50 U
Phenanthrene	UG/L	10 U	10 U	9 U	10 U	10 U
Phenol	UG/L	10 U	10 U	18	10 U	10 U
Pyrene	UG/L	10 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/17/03	12/17/03	12/12/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.038 J	0.027 J	0.052	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.069 U	0.072 U	0.069 U	0.069 U	0.072 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.50 U	0.48 U	0.48 U	0.50 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/17/03	12/17/03	12/12/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.50 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.50 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.50 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.50 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.50 U	0.50 U	0.48 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	9.4 U	8.0 U	2.8 U	7.5 U	3.2 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.2	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	119,000	47,800	69,400	651,000	556,000
Lead	UG/L	9.8	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	10,200	9,740	11,000	98,000	58,200
Mercury	UG/L	0.200 U	0.200 U	0.200 UJ	0.200 UJ	0.200 UJ
Potassium	UG/L	1,970	1,770	1,900	17,400	26,000
Sodium	UG/L	12,900	12,500	12,200	346,000	197,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	107	100	109	200	92.5
Alkalinity, Total (as CaCO3)	MG/L	107	100	109	200	92.5
Chloride	MG/L	22.8	22.7	22.6	581	263
Hardness	MG/L	422	464	272	2,200	2,020
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1	GW03-017A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/17/03	12/17/03	12/12/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	302	52.7	99.6	1,680	1,680
Total Dissolved Solids	MG/L	407	194	298	3,480	2,570
Total Organic Carbon (TOC)	MG/L	1.4	1.4	1.0 U	1.4	1.1
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	450	47 J	99	6,100	73
Total Coliform	C/100 ML	20	120 J	20 U	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	POS	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/10/03	12/11/03	12/11/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	10 U	1.1	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	10 U	74 D	6.6	6.2	2.7
1,2-Dichloroethene (trans)	UG/L	10 U	2.4	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	50 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	50 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	4.2 J	R
Benzene	UG/L	10 U	0.39 J	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/10/03	12/11/03	12/11/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	10 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	50 U	R	R	R	R
Methyl tert-butyl ether	UG/L	10 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Methylcyclohexane	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	10 U	2.4	2.2	1.4	0.80 J
Toluene	UG/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	30 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	10 U	85 D	4.9	2.5	1.8

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/10/03	12/11/03	12/11/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	10 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	10 U	3.0	1.0 U	1.8	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	NA	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	NA	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	NA	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	NA	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	NA	49 U	50 U	50 U	49 U
2,4-Dinitrotoluene	UG/L	NA	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	NA	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	NA	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	NA	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	NA	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	NA	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	NA	49 U	50 U	50 U	49 U
2-Nitrophenol	UG/L	NA	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	NA	20 U	20 U	20 U	20 U
3-Nitroaniline	UG/L	NA	49 U	50 U	50 U	49 U
4,6-Dinitro-2-methylphenol	UG/L	NA	49 U	50 U	50 U	49 U
4-Bromophenyl-phenylether	UG/L	NA	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	NA	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	NA	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/10/03	12/11/03	12/11/03	12/10/03
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	NA	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	NA	49 U	50 U	50 U	49 U
4-Nitrophenol	UG/L	NA	49 U	50 U	50 U	49 U
Acenaphthene	UG/L	NA	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	NA	10 U	10 U	10 U	10 U
Acetophenone	UG/L	NA	10 UJ	10 U	10 UJ	10 UJ
Anthracene	UG/L	NA	10 U	10 U	10 U	10 U
Atrazine	UG/L	NA	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	NA	49 U	50 U	50 U	49 U
Benzo(a)anthracene	UG/L	NA	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	NA	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	NA	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	NA	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	NA	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	NA	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Caprolactam	UG/L	NA	10 UJ	10 UJ	10 UJ	10 UJ
Carbazole	UG/L	NA	10 U	10 U	10 U	10 U
Chrysene	UG/L	NA	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/10/03	12/11/03	12/11/03	12/10/03
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	NA	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	NA	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	NA	10 U	10 U	10 U	10 U
Fluorene	UG/L	NA	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	NA	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	NA	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	NA	23 UJ	24 UJ	24 UJ	23 UJ
Hexachloroethane	UG/L	NA	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	NA	10 U	10 U	10 U	10 U
Isophorone	UG/L	NA	10 U	10 U	10 U	10 U
Naphthalene	UG/L	NA	10 U	4 J	10 U	10 U
Nitrobenzene	UG/L	NA	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	NA	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	NA	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	NA	49 U	50 U	50 U	49 U
Phenanthrene	UG/L	NA	10 U	10 U	10 U	10 U
Phenol	UG/L	NA	10 U	10 U	10 U	10 U
Pyrene	UG/L	NA	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/10/03	12/11/03	12/11/03	12/10/03
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	NA	0.038 J	0.077	0.073	0.050 U
delta-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	NA	0.072 U	0.072 U	0.073 U	0.072 U
gamma-BHC (Lindane)	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	NA	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	0.50 U	0.51 U	0.50 U	0.50 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/10/03	12/11/03	12/11/03	12/10/03
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	0.50 U	0.51 U	0.50 U	0.50 U
Aroclor 1232	UG/L	NA	0.50 U	0.51 U	0.50 U	0.50 U
Aroclor 1242	UG/L	NA	0.50 U	0.51 U	0.50 U	0.50 U
Aroclor 1248	UG/L	NA	0.50 U	0.51 U	0.50 U	0.50 U
Aroclor 1254	UG/L	NA	0.50 U	0.51 U	0.50 U	0.50 U
Aroclor 1260	UG/L	NA	0.50 U	0.51 U	0.50 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	1.9 U	2.4 U	2.9 U	2.5 U
Metals						
Arsenic	UG/L	NA	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	NA	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	NA	55,400	58,600	52,900	63,700
Lead	UG/L	NA	6.0 U	6.0 UJ	6.0 U	6.0 U
Magnesium	UG/L	NA	11,600	12,100	10,600	11,500
Mercury	UG/L	NA	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	NA	10,500	2,120	2,230	3,530
Sodium	UG/L	NA	20,000	16,000	15,200	14,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	233	109	109	95.3
Alkalinity, Total (as CaCO3)	MG/L	NA	233	109	109	95.3
Chloride	MG/L	NA	23.2	28.8	25.3	21.8
Hardness	MG/L	NA	192	194	188	252
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P3	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/10/03	12/11/03	12/11/03	12/10/03
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	86.6	97.2	61.1	88.4
Total Dissolved Solids	MG/L	NA	312	275	216	292
Total Organic Carbon (TOC)	MG/L	NA	1.4	1.1	1.2	1.0
Total Suspended Solids	MG/L	NA	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	37	260	290	110
Total Coliform	C/100 ML	NA	20 U	340	110	20
Fecal Coliform	C/100 ML	NA	NA	NA	NA	20 U
E Coli	POS/NEG	NA	POS	POS	POS	NEG

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		12/15/03	12/18/03
Parameter	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	10 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	10 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	10 U	1.0 U
1,1,2-Trichloroethane	UG/L	10 U	1.0 U
1,1-Dichloroethane	UG/L	10 U	1.0 U
1,1-Dichloroethene	UG/L	10 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	10 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	10 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	10 U	1.0 U
1,2-Dichlorobenzene	UG/L	10 U	1.0 U
1,2-Dichloroethane	UG/L	10 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	130	0.34 J
1,2-Dichloroethene (trans)	UG/L	10 U	1.0 U
1,2-Dichloropropane	UG/L	10 U	1.0 U
1,3-Dichlorobenzene	UG/L	10 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	10 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	10 U	1.0 U
1,4-Dichlorobenzene	UG/L	10 U	1.0 U
2-Hexanone	UG/L	50 U	5.0 U
4-Methyl-2-Pentanone	UG/L	50 U	5.0 U
Acetone	UG/L	R	19 J
Benzene	UG/L	10 U	0.99 J
Bromodichloromethane	UG/L	10 U	1.0 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		12/15/03	12/18/03
Parameter	Units		
Volatile Organic Compounds			
Bromoform	UG/L	10 U	1.0 U
Bromomethane	UG/L	10 U	1.0 UJ
Carbon Disulfide	UG/L	10 U	1.8
Carbon Tetrachloride	UG/L	10 U	1.0 U
Chlorobenzene	UG/L	10 U	1.0 U
Chloroethane	UG/L	10 UJ	1.0 U
Chloroform	UG/L	10 U	1.0 U
Chloromethane	UG/L	10 U	1.0 U
Cyclohexane	UG/L	10 U	1.0 U
Dibromochloromethane	UG/L	10 U	1.0 U
Dichlorodifluoromethane	UG/L	10 U	1.0 UJ
Ethylbenzene	UG/L	10 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	10 U	1.0 U
Methyl acetate	UG/L	10 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	50 U	5.0 U
Methyl tert-butyl ether	UG/L	10 U	1.0 U
Methylcyclohexane	UG/L	10 U	1.0 U
Methylene Chloride	UG/L	10 U	1.0 U
Styrene	UG/L	10 U	1.0 U
Tetrachloroethene	UG/L	9.5 J	1.0 U
Toluene	UG/L	10 U	0.78 J
Total Xylenes	UG/L	30 U	3.0 U
Trichloroethene	UG/L	120	1.0 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		12/15/03	12/18/03
Parameter	Units		
Volatile Organic Compounds			
Trichlorofluoromethane	UG/L	10 U	1.0 U
Vinyl Chloride	UG/L	10 U	1.0 U
Semivolatile Organic Compounds			
1,1-Biphenyl	UG/L	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	2 J
2,4-Dinitrophenol	UG/L	48 UJ	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	4 J
2-Nitroaniline	UG/L	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U
3-Nitroaniline	UG/L	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 UJ	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		12/15/03	12/18/03
Parameter	Units		
Semivolatile Organic Compounds			
4-Chlorophenyl-phenylether	UG/L	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	7 J
4-Nitroaniline	UG/L	48 U	48 U
4-Nitrophenol	UG/L	48 U	48 U
Acenaphthene	UG/L	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U
Acetophenone	UG/L	10 U	10 U
Anthracene	UG/L	10 U	10 U
Atrazine	UG/L	10 U	10 U
Benzaldehyde	UG/L	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U
Caprolactam	UG/L	10 U	12
Carbazole	UG/L	10 U	10 U
Chrysene	UG/L	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		12/15/03	12/18/03
Parameter	Units		
Semivolatile Organic Compounds			
Dibenz(a,h)anthracene	UG/L	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U
Fluoranthene	UG/L	10 U	10 U
Fluorene	UG/L	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	22 U
Hexachloroethane	UG/L	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U
Isophorone	UG/L	10 U	10 U
Naphthalene	UG/L	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U
Pentachlorophenol	UG/L	48 U	48 U
Phenanthrene	UG/L	10 U	10 U
Phenol	UG/L	10 U	30
Pyrene	UG/L	10 U	10 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		12/15/03	12/18/03
Parameter	Units		
Pesticides			
4,4-DDD	UG/L	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U
beta-BHC	UG/L	0.062 J	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U
Endrin ketone	UG/L	0.070 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U
Polychlorinated Biphenyls			
Aroclor 1016	UG/L	0.50 U	0.48 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		12/15/03	12/18/03
Parameter	**Units**		
Polychlorinated Biphenyls			
Aroclor 1221	UG/L	0.50 U	0.48 U
Aroclor 1232	UG/L	0.50 U	0.48 U
Aroclor 1242	UG/L	0.50 U	0.48 U
Aroclor 1248	UG/L	0.50 U	0.48 U
Aroclor 1254	UG/L	0.50 U	0.48 U
Aroclor 1260	UG/L	0.50 U	0.48 U
Dioxins & Furans			
2,3,7,8-TCDD	PG/L	4.9 U	3.2 U
Metals			
Arsenic	UG/L	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U
Calcium	UG/L	58,300	527,000
Lead	UG/L	6.0 U	6.0 U
Magnesium	UG/L	13,100	84,500
Mercury	UG/L	0.200 U	0.200 UJ
Potassium	UG/L	2,460	39,700
Sodium	UG/L	15,900	271,000
Miscellaneous Parameters			
Alkalinity, Bicarbonate (as CaCO3)	MG/L	113	229
Alkalinity, Total (as CaCO3)	MG/L	113	229
Chloride	MG/L	23.9	592
Hardness	MG/L	237	2,100
Monomethyl Mercury	NG/L	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		12/15/03	12/18/03
Parameter	Units		
Miscellaneous Parameters			
Sulfate (as SO4)	MG/L	69.5	1,420
Total Dissolved Solids	MG/L	225	2,860
Total Organic Carbon (TOC)	MG/L	1.0 U	2.8
Total Suspended Solids	MG/L	7.0	9.0
Bacterial and Microbial Parameters			
Heterotrophic Plate Count	CFU/ML	540	4,400 J
Total Coliform	C/100 ML	20 U	20 U
Fecal Coliform	C/100 ML	NA	NA
E Coli	POS/NEG	NEG	NEG

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB4-120203	TB5-120203	TB6-120203	TRIP BLANK	TB-1-12/03/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	5.0 U	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB4-120203	TB5-120203	TB6-120203	TRIP BLANK	TB-1-12/03/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB4-120203	TB5-120203	TB6-120203	TRIP BLANK	TB-1-12/03/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB4-120203	TB5-120203	TB6-120203	TRIP BLANK	TB-1-12/03/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB4-120203	TB5-120203	TB6-120203	TRIP BLANK	TB-1-12/03/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By_JJL 2/27/04_

Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB4-120203	TB5-120203	TB6-120203	TRIP BLANK	TB-1-12/03/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

Printed: 3/4/2004 2:07:24 PM
[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB4-120203	TB5-120203	TB6-120203	TRIP BLANK	TB-1-12/03/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB4-120203	TB5-120203	TB6-120203	TRIP BLANK	TB-1-12/03/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/02/03	12/02/03	12/02/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (1-1)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-120303	TB3-120303	TB-4-120303	TB-5-12/03/02	TB-6-120303
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/03/03	12/03/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-120303	TB3-120303	TB-4-120303	TB-5-12/03/02	TB-6-120303
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/03/03	12/03/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-120303	TB3-120303	TB-4-120303	TB-5-12/03/02	TB-6-120303
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/03/03	12/03/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-120303	TB3-120303	TB-4-120303	TB-5-12/03/02	TB-6-120303
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/03/03	12/03/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-120303	TB3-120303	TB-4-120303	TB-5-12/03/02	TB-6-120303
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/03/03	12/03/03	12/03/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-120303	TB3-120303	TB-4-120303	TB-5-12/03/02	TB-6-120303
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/03/03	12/03/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-120303	TB3-120303	TB-4-120303	TB-5-12/03/02	TB-6-120303
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/03/03	12/03/03	12/03/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-120303	TB3-120303	TB-4-120303	TB-5-12/03/02	TB-6-120303
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/03/03	12/03/03	12/03/03	12/03/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-7-120303	TB1-120403	TB2-120403	TB3-120403	TB4-120403
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/04/03	12/04/03	12/04/03	12/04/03
Parameter	Units	Trip Blank (7-7)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-7-120303	TB1-120403	TB2-120403	TB3-120403	TB4-120403
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/04/03	12/04/03	12/04/03	12/04/03
Parameter	**Units**	Trip Blank (7-7)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	0.89 J	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.2	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-7-120303	TB1-120403	TB2-120403	TB3-120403	TB4-120403
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/04/03	12/04/03	12/04/03	12/04/03
Parameter	**Units**	Trip Blank (7-7)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-7-120303	TB1-120403	TB2-120403	TB3-120403	TB4-120403
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/04/03	12/04/03	12/04/03	12/04/03
Parameter	**Units**	Trip Blank (7-7)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-7-120303	TB1-120403	TB2-120403	TB3-120403	TB4-120403
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/04/03	12/04/03	12/04/03	12/04/03
Parameter	**Units**	Trip Blank (7-7)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-7-120303	TB1-120403	TB2-120403	TB3-120403	TB4-120403
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/04/03	12/04/03	12/04/03	12/04/03
Parameter	**Units**	Trip Blank (7-7)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-7-120303	TB1-120403	TB2-120403	TB3-120403	TB4-120403
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/04/03	12/04/03	12/04/03	12/04/03
Parameter	Units	Trip Blank (7-7)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-7-120303	TB1-120403	TB2-120403	TB3-120403	TB4-120403
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	12/04/03	12/04/03	12/04/03	12/04/03
Parameter	**Units**	Trip Blank (7-7)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-12/4/03	TB-6-12/4/03	TB1-120503	TB2-120503	TB3-120503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/05/03	12/05/03	12/05/03
Parameter	Units	Trip Blank (5-5)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	5.0 U	5.0 U	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-12/4/03	TB-6-12/4/03	TB1-120503	TB2-120503	TB3-120503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/05/03	12/05/03	12/05/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-12/4/03	TB-6-12/4/03	TB1-120503	TB2-120503	TB3-120503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/05/03	12/05/03	12/05/03
Parameter	Units	Trip Blank (5-5)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-12/4/03	TB-6-12/4/03	TB1-120503	TB2-120503	TB3-120503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/05/03	12/05/03	12/05/03
Parameter	Units	Trip Blank (5-5)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-12/4/03	TB-6-12/4/03	TB1-120503	TB2-120503	TB3-120503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/05/03	12/05/03	12/05/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-12/4/03	TB-6-12/4/03	TB1-120503	TB2-120503	TB3-120503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/05/03	12/05/03	12/05/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-12/4/03	TB-6-12/4/03	TB1-120503	TB2-120503	TB3-120503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/05/03	12/05/03	12/05/03
Parameter	Units	Trip Blank (5-5)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB5-12/4/03	TB-6-12/4/03	TB1-120503	TB2-120503	TB3-120503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/04/03	12/05/03	12/05/03	12/05/03
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-03-12/8/03	TB1-120803	TB2-120803	TB-4-12/08/03	TB-5-12/08/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/08/03	12/08/03	12/08/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (5-5)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Acetone	UG/L	5.0 U	5.0 U	5.0 U	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-03-12/8/03	TB1-120803	TB2-120803	TB-4-12/08/03	TB-5-12/08/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/08/03	12/08/03	12/08/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (5-5)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	0.32 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-03-12/8/03	TB1-120803	TB2-120803	TB-4-12/08/03	TB-5-12/08/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/08/03	12/08/03	12/08/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (5-5)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-03-12/8/03	TB1-120803	TB2-120803	TB-4-12/08/03	TB-5-12/08/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/08/03	12/08/03	12/08/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (5-5)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-03-12/8/03	TB1-120803	TB2-120803	TB-4-12/08/03	TB-5-12/08/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/08/03	12/08/03	12/08/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (5-5)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-03-12/8/03	TB1-120803	TB2-120803	TB-4-12/08/03	TB-5-12/08/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/08/03	12/08/03	12/08/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (5-5)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-03-12/8/03	TB1-120803	TB2-120803	TB-4-12/08/03	TB-5-12/08/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/08/03	12/08/03	12/08/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (5-5)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-03-12/8/03	TB1-120803	TB2-120803	TB-4-12/08/03	TB-5-12/08/03
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/08/03	12/08/03	12/08/03	12/08/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (5-5)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-6-12/08/03	TB1 120903	TB2 120903	TB01-121003	TB02-121003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/09/03	12/10/03	12/10/03
Parameter	Units	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Acetone	UG/L	R	5.0 U	5.0 U	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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NIAGARA POWER PROJECT RELICENSING

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Sample ID		TB-6-12/08/03	TB1 120903	TB2 120903	TB01-121003	TB02-121003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/09/03	12/10/03	12/10/03
Parameter	Units	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-6-12/08/03	TB1 120903	TB2 120903	TB01-121003	TB02-121003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/09/03	12/10/03	12/10/03
Parameter	Units	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-6-12/08/03	TB1 120903	TB2 120903	TB01-121003	TB02-121003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/09/03	12/10/03	12/10/03
Parameter	**Units**	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-6-12/08/03	TB1 120903	TB2 120903	TB01-121003	TB02-121003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/09/03	12/10/03	12/10/03
Parameter	Units	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-6-12/08/03	TB1 120903	TB2 120903	TB01-121003	TB02-121003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/09/03	12/10/03	12/10/03
Parameter	Units	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-6-12/08/03	TB1 120903	TB2 120903	TB01-121003	TB02-121003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/09/03	12/10/03	12/10/03
Parameter	Units	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB-6-12/08/03	TB1 120903	TB2 120903	TB01-121003	TB02-121003
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	12/09/03	12/09/03	12/10/03	12/10/03
Parameter	**Units**	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB03-121003	TB04-121003	TB1-121103	TB2-121103	TB1-121203
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/10/03	12/11/03	12/11/03	12/12/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB03-121003	TB04-121003	TB1-121103	TB2-121103	TB1-121203
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/10/03	12/11/03	12/11/03	12/12/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R	5.0 U
Methyl tert-butyl ether	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 3
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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB03-121003	TB04-121003	TB1-121103	TB2-121103	TB1-121203
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/10/03	12/11/03	12/11/03	12/12/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB03-121003	TB04-121003	TB1-121103	TB2-121103	TB1-121203
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/10/03	12/11/03	12/11/03	12/12/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB03-121003	TB04-121003	TB1-121103	TB2-121103	TB1-121203
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/10/03	12/11/03	12/11/03	12/12/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB03-121003	TB04-121003	TB1-121103	TB2-121103	TB1-121203
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/10/03	12/11/03	12/11/03	12/12/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB03-121003	TB04-121003	TB1-121103	TB2-121103	TB1-121203
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/10/03	12/11/03	12/11/03	12/12/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB03-121003	TB04-121003	TB1-121103	TB2-121103	TB1-121203
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	12/10/03	12/11/03	12/11/03	12/12/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121203	TB-3-12/12/03	EB1-121503	EB2-121503	TB1-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/12/03	12/15/03	12/15/03	12/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Equipment Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121203	TB-3-12/12/03	EB1-121503	EB2-121503	TB1-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/12/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Equipment Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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NIAGARA POWER PROJECT RELICENSING

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Sample ID		TB2-121203	TB-3-12/12/03	EB1-121503	EB2-121503	TB1-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/12/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Equipment Blank (2-2)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	10 U	10 U	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	10 U	10 U	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	10 U	10 U	NA
2,4-Dichlorophenol	UG/L	NA	NA	10 U	10 U	NA
2,4-Dimethylphenol	UG/L	NA	NA	10 U	10 U	NA
2,4-Dinitrophenol	UG/L	NA	NA	48 UJ	50 UJ	NA
2,4-Dinitrotoluene	UG/L	NA	NA	10 U	10 U	NA
2,6-Dinitrotoluene	UG/L	NA	NA	10 U	10 U	NA
2-Chloronaphthalene	UG/L	NA	NA	10 U	10 U	NA
2-Chlorophenol	UG/L	NA	NA	10 U	10 U	NA
2-Methylnaphthalene	UG/L	NA	NA	10 U	10 U	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	10 U	10 U	NA
2-Nitroaniline	UG/L	NA	NA	48 U	50 U	NA
2-Nitrophenol	UG/L	NA	NA	10 U	10 U	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	19 U	20 U	NA
3-Nitroaniline	UG/L	NA	NA	48 U	50 U	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	48 UJ	50 U	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	10 U	10 U	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	10 U	10 U	NA
4-Chloroaniline	UG/L	NA	NA	10 U	10 U	NA

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121203	TB-3-12/12/03	EB1-121503	EB2-121503	TB1-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/12/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Equipment Blank (2-2)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	10 U	10 U	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	10 U	10 U	NA
4-Nitroaniline	UG/L	NA	NA	48 U	50 U	NA
4-Nitrophenol	UG/L	NA	NA	48 U	50 U	NA
Acenaphthene	UG/L	NA	NA	10 U	10 U	NA
Acenaphthylene	UG/L	NA	NA	10 U	10 U	NA
Acetophenone	UG/L	NA	NA	10 U	10 U	NA
Anthracene	UG/L	NA	NA	10 U	10 U	NA
Atrazine	UG/L	NA	NA	10 U	10 U	NA
Benzaldehyde	UG/L	NA	NA	48 U	50 U	NA
Benzo(a)anthracene	UG/L	NA	NA	10 U	10 U	NA
Benzo(a)pyrene	UG/L	NA	NA	10 U	10 U	NA
Benzo(b)fluoranthene	UG/L	NA	NA	10 U	10 U	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	10 U	10 U	NA
Benzo(k)fluoranthene	UG/L	NA	NA	10 U	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	10 U	10 U	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	10 U	10 U	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	10 U	10 U	NA
Butylbenzylphthalate	UG/L	NA	NA	10 U	10 U	NA
Caprolactam	UG/L	NA	NA	10 U	10 U	NA
Carbazole	UG/L	NA	NA	10 U	10 U	NA
Chrysene	UG/L	NA	NA	10 U	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121203	TB-3-12/12/03	EB1-121503	EB2-121503	TB1-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/12/03	12/15/03	12/15/03	12/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Equipment Blank (2-2)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	10 U	10 U	NA
Dibenzofuran	UG/L	NA	NA	10 U	10 U	NA
Diethylphthalate	UG/L	NA	NA	10 U	10 U	NA
Dimethylphthalate	UG/L	NA	NA	10 U	10 U	NA
Di-n-butylphthalate	UG/L	NA	NA	10 U	10 U	NA
Di-n-octylphthalate	UG/L	NA	NA	10 U	10 U	NA
Fluoranthene	UG/L	NA	NA	10 U	10 U	NA
Fluorene	UG/L	NA	NA	10 U	10 U	NA
Hexachlorobenzene	UG/L	NA	NA	10 U	10 U	NA
Hexachlorobutadiene	UG/L	NA	NA	10 U	10 U	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	23 U	23 U	NA
Hexachloroethane	UG/L	NA	NA	10 U	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	10 U	10 U	NA
Isophorone	UG/L	NA	NA	10 U	10 U	NA
Naphthalene	UG/L	NA	NA	10 U	10 U	NA
Nitrobenzene	UG/L	NA	NA	10 U	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	10 U	10 U	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	10 U	10 U	NA
Pentachlorophenol	UG/L	NA	NA	48 U	50 U	NA
Phenanthrene	UG/L	NA	NA	10 U	10 U	NA
Phenol	UG/L	NA	NA	10 U	10 U	NA
Pyrene	UG/L	NA	NA	10 U	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121203	TB-3-12/12/03	EB1-121503	EB2-121503	TB1-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/12/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Equipment Blank (2-2)	Trip Blank (1-1)
Pesticides						
4,4-DDD	UG/L	NA	NA	0.050 U	0.050 U	NA
4,4-DDE	UG/L	NA	NA	0.050 U	0.050 U	NA
4,4-DDT	UG/L	NA	NA	0.050 U	0.050 U	NA
Aldrin	UG/L	NA	NA	0.050 U	0.050 U	NA
alpha-BHC	UG/L	NA	NA	0.050 U	0.050 U	NA
alpha-Chlordane	UG/L	NA	NA	0.050 U	0.050 U	NA
beta-BHC	UG/L	NA	NA	0.050 U	0.050 U	NA
delta-BHC	UG/L	NA	NA	0.050 U	0.050 U	NA
Dieldrin	UG/L	NA	NA	0.050 U	0.050 U	NA
Endosulfan I	UG/L	NA	NA	0.050 U	0.050 U	NA
Endosulfan II	UG/L	NA	NA	0.050 U	0.050 U	NA
Endosulfan sulfate	UG/L	NA	NA	0.050 U	0.050 U	NA
Endrin	UG/L	NA	NA	0.050 U	0.050 U	NA
Endrin aldehyde	UG/L	NA	NA	0.050 U	0.050 U	NA
Endrin ketone	UG/L	NA	NA	0.069 U	0.072 U	NA
gamma-BHC (Lindane)	UG/L	NA	NA	0.050 U	0.050 U	NA
gamma-Chlordane	UG/L	NA	NA	0.050 U	0.050 U	NA
Heptachlor	UG/L	NA	NA	0.050 U	0.050 U	NA
Heptachlor epoxide	UG/L	NA	NA	0.050 U	0.050 U	NA
Methoxychlor	UG/L	NA	NA	0.050 U	0.050 U	NA
Toxaphene	UG/L	NA	NA	1.0 U	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	0.49 U	0.50 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121203	TB-3-12/12/03	EB1-121503	EB2-121503	TB1-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/12/03	12/15/03	12/15/03	12/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Equipment Blank (2-2)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	0.49 U	0.50 U	NA
Aroclor 1232	UG/L	NA	NA	0.49 U	0.50 U	NA
Aroclor 1242	UG/L	NA	NA	0.49 U	0.50 U	NA
Aroclor 1248	UG/L	NA	NA	0.49 U	0.50 U	NA
Aroclor 1254	UG/L	NA	NA	0.49 U	0.50 U	NA
Aroclor 1260	UG/L	NA	NA	0.49 U	0.50 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	6.8 U	4.5 U	NA
Metals						
Arsenic	UG/L	NA	NA	10.0 U	10.0 U	NA
Cadmium	UG/L	NA	NA	1.0 U	1.0 U	NA
Calcium	UG/L	NA	NA	500 U	500 U	NA
Lead	UG/L	NA	NA	6.0 U	6.0 U	NA
Magnesium	UG/L	NA	NA	200 U	200 U	NA
Mercury	UG/L	NA	NA	0.200 U	0.200 U	NA
Potassium	UG/L	NA	NA	500 U	500 U	NA
Sodium	UG/L	NA	NA	1,000 U	1,000 U	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	87.9	88.8	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	87.9	88.8	NA
Chloride	MG/L	NA	NA	22.8	23.6	NA
Hardness	MG/L	NA	NA	2.0 U	2.0 U	NA
Monomethyl Mercury	NG/L	NA	NA	0.25 U	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121203	TB-3-12/12/03	EB1-121503	EB2-121503	TB1-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	12/12/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Equipment Blank (1-1)	Equipment Blank (2-2)	Trip Blank (1-1)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	29.0	29.9	NA
Total Dissolved Solids	MG/L	NA	NA	156	148	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	1.0 U	1.0 U	NA
Total Suspended Solids	MG/L	NA	NA	4.0 U	4.0 U	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	100	100	NA
Total Coliform	C/100 ML	NA	NA	20.0 U	20.0 U	NA
E Coli	POS/NEG	NA	NA	NEG	NEG	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121503	TB3-121503	TB4-121503	TB5-121503	TB6-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/15/03	12/15/03	12/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121503	TB3-121503	TB4-121503	TB5-121503	TB6-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121503	TB3-121503	TB4-121503	TB5-121503	TB6-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/15/03	12/15/03	12/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121503	TB3-121503	TB4-121503	TB5-121503	TB6-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121503	TB3-121503	TB4-121503	TB5-121503	TB6-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-121503	TB3-121503	TB4-121503	TB5-121503	TB6-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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Sample ID		TB2-121503	TB3-121503	TB4-121503	TB5-121503	TB6-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/15/03	12/15/03	12/15/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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Sample ID		TB2-121503	TB3-121503	TB4-121503	TB5-121503	TB6-121503
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	12/15/03	12/15/03	12/15/03	12/15/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Trip Blank (6-6)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-121603	TB2-121603	TB3-121603	TB4-121603	TB1-121703
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	12/16/03	12/16/03	12/16/03	12/17/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-121603	TB2-121603	TB3-121603	TB4-121603	TB1-121703
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	12/16/03	12/16/03	12/16/03	12/17/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	R	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	12/16/03	12/16/03	12/16/03	12/17/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	12/16/03	12/16/03	12/16/03	12/17/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	12/16/03	12/16/03	12/16/03	12/17/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-121603	TB2-121603	TB3-121603	TB4-121603	TB1-121703
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	12/16/03	12/16/03	12/16/03	12/17/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-121603	TB2-121603	TB3-121603	TB4-121603	TB1-121703
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	12/16/03	12/16/03	12/16/03	12/17/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB1-121603	TB2-121603	TB3-121603	TB4-121603	TB1-121703
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	12/16/03	12/16/03	12/16/03	12/17/03
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-12/17/03	TB3-121703	TB4-12/17/02	TB1-121803	TB2-121803
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	12/17/03	12/17/03	12/18/03	12/18/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	3.1 J	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-12/17/03	TB3-121703	TB4-12/17/02	TB1-121803	TB2-121803
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	12/17/03	12/17/03	12/18/03	12/18/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-12/17/03	TB3-121703	TB4-12/17/02	TB1-121803	TB2-121803
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	12/17/03	12/17/03	12/18/03	12/18/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-12/17/03	TB3-121703	TB4-12/17/02	TB1-121803	TB2-121803
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	12/17/03	12/17/03	12/18/03	12/18/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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Sample ID		TB2-12/17/03	TB3-121703	TB4-12/17/02	TB1-121803	TB2-121803
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	12/17/03	12/17/03	12/18/03	12/18/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	12/17/03	12/17/03	12/18/03	12/18/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-12/17/03	TB3-121703	TB4-12/17/02	TB1-121803	TB2-121803
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	12/17/03	12/17/03	12/18/03	12/18/03
Parameter	Units	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB2-12/17/03	TB3-121703	TB4-12/17/02	TB1-121803	TB2-121803
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	12/17/03	12/17/03	12/18/03	12/18/03
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-121803	TB4-121803	TB1-121903	TB2-121903	EB2-121503(RE)
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/18/03	12/19/03	12/19/03	12/23/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Equipment Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	NA
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	NA
Acetone	UG/L	R	R	R	R	NA
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-121803	TB4-121803	TB1-121903	TB2-121903	EB2-121503(RE)
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/18/03	12/19/03	12/19/03	12/23/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Equipment Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	NA
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Dichlorodifluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	NA
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	NA
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	NA
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-121803	TB4-121803	TB1-121903	TB2-121903	EB2-121503(RE)
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/18/03	12/19/03	12/19/03	12/23/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Equipment Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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VALIDATED FIELD QC SAMPLE RESULTS
DECEMBER 2003
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-121803	TB4-121803	TB1-121903	TB2-121903	EB2-121503(RE)
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/18/03	12/19/03	12/19/03	12/23/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Equipment Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
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NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB3-121803	TB4-121803	TB1-121903	TB2-121903	EB2-121503(RE)
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/18/03	12/19/03	12/19/03	12/23/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Equipment Blank (1-1)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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Sample ID		TB3-121803	TB4-121803	TB1-121903	TB2-121903	EB2-121503(RE)
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/18/03	12/19/03	12/19/03	12/23/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Equipment Blank (1-1)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/18/03	12/19/03	12/19/03	12/23/03
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Equipment Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	0.25 U

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Sample ID		TB3-121803	TB4-121803	TB1-121903	TB2-121903	EB2-121503(RE)
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/18/03	12/18/03	12/19/03	12/19/03	12/23/03
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (2-2)	Equipment Blank (1-1)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By_GEK 2/20/04_
Checked By_JJL 2/27/04_

Detection Limits shown are PQL

Printed: 3/4/2004 2:07:47 PM
[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #12/2/2003# AND #12/23/2003# AND [tblRES].[LOCID] = 'FIELDQC'

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ATTACHMENT A
DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT B
DEFINITIONS OF SAMPLE CONCENTRATION UNITS

PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.
POS/NEG	The sample tested positive or negative for this analyte.

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ATTACHMENT C
DOCUMENTATION SUPPORTING THE QUALIFICATION OF DATA

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman, Dan Tosin

LAB STL-Buffalo

COOLER 1+2 of ~~3~~ 4 (S.M.)

PAGE 1 of 2

DELIVERY SERVICE: URS Courier to lab AIRBILL NO.: —

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxins (2378-TCDD); Metals/Total Hg; TDS/TSS/Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 40ml VOA; 40ml VOA w/HCL; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16oz HDPE w/HNO3; 16oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40ml VOA	40ml VOA w/HCL	1L Amber	1L Amber	1L Amber	1L Amber	16oz HDPE w/HNO3	16oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-011B-P4	12/2/03	15:15	G	GW03-011B-P4	WG	19	3	2	2	2	1	2	1	1		N	—	—	—
GW03-011C-P7	12/2/03	16:45	G	GW03-011C-P7	WG	19	3	2	2	2	1	2	1	1		N	—	—	—
Field QC	12/2/03	—	—	TB-6-12/02/03	WQ	2	2								TRIP BLANK	TB	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andy B Brayman	12/2/03	17:30	D M. [illegible]	12-2-03	17:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
D M. [illegible]	12-3-03	0647	K Kosperek	12/03/03	0715

SPECIAL INSTRUCTIONS: * Any questions, contact Jim Lehner at 1-800-850-9230

Shipment = 4 coolers @ 2°C, 2°C, 2°C, 2°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

512/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Blayne/[signature] DAN TOBIN [signature]

DELIVERY SERVICE: Courier to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1/2 of ~~3~~ 4 (5 m)

PAGE 2 of 2

TESTS: Alkalinity (Cl, F, Br, SO4); Total Hardness; Total Coliform & E. coli; Heterotrophic Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz NPPE; 4 oz NPPE w/ HNO_3; 4 oz NPPE w/ $NaO_2S_2O_3$; 4 oz NPPE w/ $Na_2S_2O_3$; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz NPPE	4 oz NPPE w/ HNO_3	4 oz NPPE w/ $NaO_2S_2O_3$	4 oz NPPE w/ $Na_2S_2O_3$	12 oz glass	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-011B-P4	12/2/03	15:15	G	GW03-011B-P4	WG	—	1	1	1	1	1		N	—	—	—
GW03-011C-P7	12/2/03	16:45	G	GW03-011C-P7	WG	—	1	1	1	1	1		N	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/2/03	17:30	[signature]	12-2-03	17:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	0647	[signature]		0647

SPECIAL INSTRUCTIONS: * Hold Methyl Hg samples

Shipment = 4 coolers @ 4°C, 2°C, 2°C, 1°C. KEK

KEK 2°C 12/3/2003

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

513/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Biagoni/Andy Bryn

DELIVERY SERVICE: Courier AIRBILL NO.: —

LAB STL Buffalo

COOLER *6 of *6

PAGE 1 of 2

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8-TCDD); Mercury Total/Methyl Hg; TDS/TSS/Cl/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA w/HCl; 1 L Amber; 1 L Amber; 1 L Amber; 1 L Amber; 16 oz NOAC w/NaOH; 16 oz NOPC

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA w/HCl	1 L Amber	1 L Amber	1 L Amber	1 L Amber	16 oz NOAC w/NaOH	16 oz NOPC	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (FRPIMS)
GW03-011C-P8	12/3/03	11:00	G	GW03-011C-P8	WG	19	3	2	2	2	1	2	1	1		N	—	—	—
Field QC	12/3/03	—	—	TB-1-12/03/03	WQ	1	1								TRIP BLANK	TB	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andy Biagoni/Andy Bryn	12/3/03	12:25	[signature]	12-03-03	12:25
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	14:10	[signature] STL	12-03-03	14:10

482.0°C

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE.

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00036

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Bragan / Andrew Bragan

LAB STL-Buffalo (SM)

COOLER *6 of *6

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS: Alkalinity (Carb + Bicarb) | Total Hardness | Total Coliform & E. coli | Hetrotrophic Plate Count | Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 6 oz NDPE | 4 oz NDPE w/HNO3 | 4 oz NDPE w/Na2S2O3 | 4 oz NDPE w/Na2S2O3 | 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	6 oz NDPE	4 oz NDPE w/HNO3	4 oz NDPE w/Na2S2O3	4 oz NDPE w/Na2S2O3	12 oz glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-DIK-P8	12/3/03	11:03	G	GW03-DIK-P8	WG	—	1	1	1	1	1					N	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES				
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andrew Bragan	12/3/03	12:25	[signature]	12-3-03	12:25
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	12-3-03	14:10	[signature] STL	12-03-03	14:10

482.6°C

SPECIAL INSTRUCTIONS

ANY QUESTIONS CONTACT JIM LEHNEN AT 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Braymer/[signature] DAN TEBON/[signature]

LAB STL-Buffalo

COOLER 2+3 of 8

PAGE 1 of 2

DELIVERY SERVICE: Courier Lab AIRBILL NO.: —

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA w/HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (33 TEF TCDD) (1L Amber)	Metals/Total Hg (16oz HDPE w/HNO3)	TDS/TSS/Cl-/SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
GW03-013A-P1	12/4/03	09:30	G	GW03-013A-P1	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-013A-P2	12/4/03	12:05	G	GW03-013A-P2	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC	12/4/03	—	—	TB-3-12/04/03	WQ	2	2									TB3	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/4/03	1300	[signature]	12/4/03	1300
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-4-03	14:35	[signature] STL	12-04-03	14:35

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files [signature] 12/04/03 1515

URSF-075C/1 OF 1/CofCR/GCM

802.02

517/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman / [signature] DAN TOBIN [signature]

LAB STL-Buffalo

COOLER 2+3 of 8

PAGE 2 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

TESTS: Alkalinity (Carb/Bicarb); Total Hardness; Total Coliform & E. coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz NDPG; 4 oz ADPG w/HNO3; 4 oz NDPG w/Na2S2O3; 4 oz NDPG w/Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz NDPG	4 oz ADPG w/HNO3	4 oz NDPG w/Na2S2O3	4 oz NDPG w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (BRPMS)
GW03-013A-P1	12/4/03	09:30	G	GW03-013A-P1	WG	—	1	1	1	1						N1	—	—	—
GW03-013A-P2	12/4/03	12:05	G	GW03-013A-P2	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/4/03	1300	[signature]	12-4-03	1300
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	12-4-03	14:35	[signature] STL	12-04-03	14:35

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

[signature] STL 12/4/03 1515

8P2.0°C

URSF-075C/1 OF 1/CofCR/GCM

516/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117/932.00006

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) Andy Brayman / [signature]

LAB STL-Buffalo

COOLER 1+2 of 2

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: –

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/ HCL)	TCL SVOCs (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCBs (1 L Amber)	Dioxin (2,3,7,8-TCDD) (1 L Amber)	Metals/Total Hg (16 oz NOPE w/ HNO3)	TDS/TSS/Cl-/SO4 (16 oz NOPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERMMS)
GW03-011A-P1	12/2/03	09:30	G	GW03-011A-P1	WG	19	3	2	2	2	1	2	1	1		N	–	–	–
GW03-011A-P2	12/2/03	12:40	G	GW03-011A-P2	WG	19	3	2	2	2	1	2	1	1		N	–	–	–
Field QC	12/2/03	–	–	TB-3-12/02/03	WQ	1	1									TB	–	–	–
Field QC	12/2/03	–	–	TB-4-12/02/03	WQ	1	1									TB	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12/2/03	13:25	[signature] STL	12/2/03	13:25

SPECIAL INSTRUCTIONS: 502.00

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

511/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) Andy Blapm / [illegible] DAN TOBIN / [illegible]

LAB STL-Buffalo

COOLER 1+2 of 2

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	Alkalinity (Carb+Bicarb) 8 oz HDPE	Total Hardness 4 oz HDPE w/HNO3	Total coliform & E.coli 4 oz HDPE w/Na2S2O3	Heterotrophic Plate Count 4 oz HDPE w/Na2S2O3	Mercury/Hg 12 oz Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-011A-P1	12/2/03	09:30	G	GW03-011A-P1	WG	—	1	1	1	1	1					N	—	—	—
GW03-011A-P2	12/2/03	12:40	G	GW03-011A-P2	WG	—	1	1	1	1	1					N	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
Andy B Blapm	12/2/03	13:25	[illegible] STL	12-2-03	13:25

SPECIAL INSTRUCTIONS: 502.0

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

518/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Grady / B Pekarski

DELIVERY SERVICE: HAND DELIVERED TO LAB AIRBILL NO.: —

LAB STL - Buffalo

COOLER 3 of 4

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40ml VOA)	TOC (40ml VOA)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	metals/ Total Hg (1L oz HDPE w/HNO3)	TDS/TSS/ Cl-/SO4 (1L oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-006A-P1	12/2/03	1355	Grab	GW03-0006A-P1	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES	
AA - AMBIENT AIR	SL - SLUDGE
SE - SEDIMENT	WP - DRINKING WATER
SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER
WG - GROUND WATER	WL - LEACHATE
SO - SOIL	GS - SOIL GAS
DC - DRILL CUTTINGS	WC - DRILLING WATER
WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
WQ - WATER FIELD QC	

SAMPLE TYPE CODES	
TB# - TRIP BLANK	RB# - RINSE BLANK
SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE
N# - NORMAL ENVIRONMENTAL SAMPLE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/2/03	1700	[signature]	12-2-03	1700
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	12-3-03	0647	[signature]	12/03/03	1715

Shipment of 4 coolers @ 2°C, 2°C, 2°C, 2°C. KEK

SPECIAL INSTRUCTIONS

ANY QUESTIONS CALL JIM LEHNEN AT 1-800-350-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/ColCR/GCM

519/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0000 G

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Grady / R Pekarski

HAND DELIVERED

DELIVERY SERVICE: TO LAB AIRBILL NO.: —

LAB STL-Buffalo

COOLER 3 of 4

PAGE 2 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE W/NaOH	4 oz HDPE W/NaS2O3	4 oz HDPE W/HNO3	12 oz Glass	40 ml VOA			REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							Alkalinity (Carb+Bicarb)	Total Coliform/E. Coli	Heterotrophic Plate Count	Total Hardness	Methyl Hg	TCL VOC							
GW03-006A-P1	12/2/03	1355	Grab	GW03-006A-P1	WG	—	1	1	1	1	1					N1	—	—	—
FIELD QC	12/2/03	—	--	TB4-120203	WG							1			TRIP BLANK	TB4	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	12/2/03	1700		12-2-03	1700
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
	12-3-03	0647		12/03/03	0647

SPECIAL INSTRUCTIONS

*HOLD METHYL HG SAMPLE

SHIPMENT = 4 COOLERS @ 2°C, 2°C, 2°C, 1°C

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) R.B. Karski, J. Grady, Randy Pakanski, Jerry Grady

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 5 of 8

PAGE 1 of 2

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals/ Total Hg (16 oz HDPE w/HNO3)	TDS/TSS/ Cl-/SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-008A-P2	12/4/03	10:55	Grab	GW03-008A-P2	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
TB4-120403	12/4/03	NA	—	TB4-120403	WQ	1	1									TB4	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Jerry Grady	12/4/03	14:35	STL	12-04-03	14:35
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
STL	12-04-03	15:15	SR	12/04/03	1515

SPECIAL INSTRUCTIONS: Problems / Questions Contact Jim Lehnen @ URS 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

8 02.0°C

URSF-075C/1OF1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Randy Pekarski J Grady Randy Pekarski J Grady

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 5 of 8

PAGE 2 of 2

TESTS: Alkalinity (Carb+Bicarb), Total Hardness, Total Coliform/Fecal, Heterotrophic Plate Count, Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE; 4 oz HDPE/HNO3; 4 oz HDPE w/Na2S2O3; 4 oz HDPE w/Na2S2O3; 1 2oz. Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz. HDPE	4 oz HDPE/HNO3	4 oz HDPE w/Na2S2O3	4 oz HDPE w/Na2S2O3	1 2oz. Glass	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
GW03-008A-P2	12/4/03	10:55	Grab	GW03-008A-P2	WG	—	1	1	1	1	1		NI	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Randy Pekarski	12/4/03	14:35	STL	12-04-03	14:35
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
STL	12-04-03	15:15		12/4/03	1515

SPECIAL INSTRUCTIONS: * Hold Methyl Hg

Distribution: Original accompanies shipment, copy to coordinator field files

8 8 2.0°C

URSF-075C/1 OF 1/CofCR/GCM

522/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00001

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) J. GRADY, R. PERACSKI, M. HOLQUIST, K. JACKSON, S. MOELLER, M. NEMETH

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

LAB STL BUFFALO

COOLER – of 3

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC's (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOC's (1 L AMBER)	TCL PESTICIDES (1 L AMBER)	TCL PCBs (1 L AMBER)	DIOXIN (2,3,7,8-TCDD) (1 L AMBER)	METALS/ TOTAL HG (16 oz HDPE w/HNO3)	TDS/TSS/ Cl-/SO4- (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-003A-P1	12/2/03	0935	G	GW03-003A-P1	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-003A-P2	12/2/03	1000	G	GW03-003A-P2	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-010C-P7	12/2/03	1215	G	GW03-010C-P7	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
FIELD QC	12/2/03	–	–	TB1-12/2/03	WQ	1	1								GW03-010C-P7	TB1	–	–	–
FIELD QC	12/2/03	–	–	TB2-12/2/03	WQ	2	2								GW03-003A-P1 GW03-003A-P2	TB2	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[illegible]	12/2/03	1320	[illegible] STL	12-2-03	13:20

SPECIAL INSTRUCTIONS
ANY QUESTIONS - CONTACT JIM LEHNEN AT 1-800-850-9230.
502.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

523/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) J. GRADY, R. PERACCHI, M. HOLCQUIST, K. JACKSON, S. MOELLER, M. NEMETH

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

LAB STL BUFFALO

COOLER - of -

PAGE 2 of 2

TESTS: ALKALINITY (CARB; BICARB) / TOTAL HARDNESS / TOTAL COLIFORM / E. COLI / HET. PLATE COUNT / METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE / 4 oz HDPE HNO_3 / 4 oz HDPE $Na_2S_2O_3$ / 4 oz HDPE $Na_2S_2O_3$ / 12 oz GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE $Na_2S_2O_3$	4 oz HDPE $Na_2S_2O_3$	12 oz GLASS				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPMS)
GW03-003A-P2	12/2/03	0935	G	GW03-003A-P2	WG	-	1	1	1	1	1					N1	-	-	-
GW03-003A-P2	12/2/03	1000	G	GW03-003A-P2	WG	-	1	1	1	1	1					N1	-	-	-
GW03-010C-P7	12/2/03	1215	G	GW03-010C-P7	WG	-	1	1	1	1	1					N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12/2/03	1320	[signature] STL	12-2-03	13:20

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE. 50 2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CoICR/GCM

524/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, S. MOELLER

LAB STL BUFFALO

COOLER 4 of 4

PAGE 1 of 2

DELIVERY SERVICE: HAND-DELIVERED TO LAB AIRBILL NO.: NA

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOCs (1L AMBER)	TCL PESTICIDES (1L AMBER)	TCL PCBs (1L AMBER)	DIOXIN (2,3,7,8-TCDD) (1L AMBER)	METALS/ TOTAL HG (16 oz HDPE HNO3)	TDS/TSS/ Cl-/SO4- (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-010B-P4	12/2/03	1545	G	GW03-010B-P4	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
FIELD QC	12/2/03	-	-	TB5-120203	WQ	1	1								TRIP BLANK	TB5	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	0647	[signature]	12/03/03	0715

SHIPMENT = 4 COOLERS @ 2°C, 2°C, 2°C, 2°C. KEK

SPECIAL INSTRUCTIONS: ANY QUESTIONS CONTACT JIM LEHNEN AT 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, S MOELLER

LAB STL BUFFALO

COOLER 4 of 4

PAGE 2 of 2

DELIVERY SERVICE: HAND-DELIVERED TO LAB AIRBILL NO.: NA

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	ALKALINITY (CARB/BICARB) 8oz HDPE	TOTAL HARDNESS 4oz HDPE HNO_3	TOTAL COLIFORM/ E.COLI 4oz HDPE $Na_2S_2O_3$	HETEROTROPHIC PLATE COUNT 4oz HDPE $Na_2S_2O_3$	METHYL HG 12oz GLASS				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-010B-P4	12/2/03	1545	G	GW03-010B-P4	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES				
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	0647	[signature]	12/03/03	0647

SPECIAL INSTRUCTIONS

*HOLD METHYL HG SAMPLE.

SHIPMENT RECEIVED 4 COOLERS @ 2°C, 2°C, 2°C, 1°C.

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

526/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, S. MOELLER, J. GRADY, M. HOLQUIST, R. PERKOSKI, K. JACKSON.

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

LAB STL - BUFFALO

COOLER 1,2,3,4 of 5

PAGE 1 of 2

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL PESTICIDES; TCL PCBs; DIOXIN (2,3,7,8-TCDD); METALS/TOTAL Hg; TDS/TSS/Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1L AMBER; 1L AMBER; 1L AMBER; 1L AMBER; 16 oz HDPE HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L AMBER	1L AMBER	1L AMBER	1L AMBER	16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010B-P5	12/3/03	0955	G	GW03-010B-P5	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-008B P5	12/3/03	1115	G	GW03 008B-P5	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-008B P4	12/3/03	0930	G	GW03 008B-P4	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-008A P1	12/3/03	0915	G	GW03 008A-P1	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
FIELD QC	12/3/03	—	G	TB2-120303	WQ	2	2								TRIP BLANK FOR GW03-008 CLUSTER	TB2	-	—	-
FIELD QC	12/3/03	—	G	TB3-120303	WQ	1	1								TRIP BLANK FOR GW03-010B-P5	TB3	-	—	—
GW03-010B-P6	12/3/03	1300	G	GW03-010B-P6	WG	19	3	2	2	2	1	2	1	1	& GW03-010B-P6	N1	-	-	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	14:10	[signature] STL	12-03-03	14:10
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] STL	12-03-03	14:40			

SPECIAL INSTRUCTIONS: ANY QUESTIONS CONTACT JIM LEHMEN AT 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

402.0-

URSF-075C/1 OF 1/ColCR/GCM

527/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. MOELLER, M. NEMETH, J GRADY, M. HOLQUIST, R. PEKARSKI, K. JACKSON.

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

LAB STL BUFFALO

COOLER 1,2,3,4,5 of 6

PAGE 2 of 2

TESTS: ALKALINITY (CARB/BICARB); TOTAL HARDNESS; TOTAL COLIFORM/E. COLI; HETEROTROPHIC PLATE COUNT; METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE; 4 oz HDPE HNO3; 4 oz HDPE $Na_2S_2O_3$; 4 oz. HDPE $Na_2S_2O_3$; 12 oz. GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz. HDPE	4 oz HDPE HNO3	4 oz HDPE $Na_2S_2O_3$	4 oz. HDPE $Na_2S_2O_3$	12 oz. GLASS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERDIMS)
GW03-010B-P5	12/3/03	0955	G	GW03-010B-P5	WG	—	1	1	1	1	1		N1	—	—	—
GW03-008B P5	12/3/03	1115	G	GW03-008B-P5	WG	~~1~~ 5	1	1	1	1	1		N1	—	—	—
GW03-008B P4	12/3/03	0930	G	GW03-008B-P4	WG	—	1	1	1	1	1		N1	—	—	—
GW03-008A P1	12/3/03	0915	G	GW03-008A-P1	WG	—	1	1	1	1	1		N1	—	—	—
GW03-010B-P6	12/3/03	1300	G	GW03-010B-P6	WG	—	1	1	1	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	1410	[signature] STL	12-03-03	14:10
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] STL	12-03-03	1410	[signature]		

SPECIAL INSTRUCTIONS: *HOLD METHYL HG SAMPLE.

Distribution: Original accompanies shipment, copy to coordinator field files

4@2.0°C

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller/Melissa Nemeth

LAB STL- Buffalo

COOLER 1 of 8

PAGE 1 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml. glass vial-unpres.)	TOC (40 ml. glass vial-HCl)	TCL SVOCs (1 l. amber glass-unpres.)	TCL Pesticides (1 l. amber glass-unpres.)	TCL PCBs (1 l. amber glass-unpres.)	Dioxin (2,3,7,8-TCDD) (1 l. amber glass-unpres.)	Metals/ Total Hg (16 oz. HDPE w/HNO3)	TDS/TSS/ Cl-/SO4 (16 oz. HDPE-unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010A-P1	12-4-03	1000	grab	GW03-010A-P1	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-014C-P7	12-4-03	1300	grab	GW03-014C-P7	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-4-03	14:35	[signature] STL	12-04-03	14:35
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] STL	12-04-03	15:15	[signature]		

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

12/04/03 1515

8820°C

URST-0750/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller/Melissa Nemeth

LAB STL - Buffalo

COOLER 1 & 4 of 8

PAGE 2 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	Alkalinity (Carb.+Bicarb.) 8oz. HDPE-unpres.	Total Hardness 4oz. HDPE-w/HNO3	Total Coliform E. Coli 4oz. HDPE-w/Na2S2O3	Heterotrophic Plate Count 4oz. HDPE-w/Na2S2O3	Total Coliform E. Coli/Fecal Coliform 4oz. HDPE w/Na2S2O3	TCL VOCs 40ml. glass vial-unpres.			REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010A-P1	12-4-03	1000	grab	GW03-010A-P1	WG	—	1	1	1	1						N1	—	—	—
FIELD QC	12-4-03	—	grab	TB1-120403	WQ	2						2			TRIP BLANK	TB1	—	—	—
GW03-014C-P7	12-4-03	1300	grab	GW03-014C-P7	WG	—	1	1		1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-4-03	14:35	[signature] STL	12-04-03	14:35
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] STL	12-04-03	15:15	[signature] STL 12/04/03 1515		

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

8 0 2.0°C

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson

LAB STL - Buffalo

COOLER 6,7,8 of 8

PAGE 1 of 2

DELIVERY SERVICE: courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/HCL)	TCL SVOCs (1L Amber)	TCL Pests (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals (16 oz HDPE w/ HNO3)	Total Hg, TDS/TSS, Cl-/SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-005A-P1	12/4/03	09:35	Grab	GW03-005A - P1	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-005A-P1	12/4/03	09:35	Grab	GW03-005A - P1-MS	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-005-P1	12/4/03	09:35	Grab	GW03-005A-P1-MSD	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
TB2-12/4/03	12/4/03	N/A	N/A	TB2-12/4/03	WQ	1	1									TB2	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/4/03	14:35	[signature] STL	12-04-03	14:35
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] STL	12-04-03	15:15	[signature] SR	12/04/03	1515

SPECIAL INSTRUCTIONS
If any questions, contact Jim Lehnen at 1(800) 850-9230.
802.02

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URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00018

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson

LAB STL - Buffalo

COOLER 6, 7, 8 of 8

PAGE 2 of 2

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	Alkalinity Carb + Bicarb / 8 oz HDPE	Total Hardness / 4 oz HDPE w/ HNO_3	Total Coliform/ecoli / 4 oz HDPE w/ $Na_2S_2O_3$	Heterotrophic Plate Count / 4 oz HDPE w/ $Na_2S_2O_3$	Methyl Hg / 12 oz. glass.				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-005A-P1	12/4/03	09:35	Grab	GW03-005A-P1	WG	—	1	1	1	1	1					N1	—	—	—
GW03-005A-P1	12/4/03	09:35	Grab	GW03-005A-P1-MS	WG	—	1	1	1	1	1					N1	—	—	—
GW03-005A-P1	12/4/03	09:35	Grab	GW03-005A-P1-MSD	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Martha E Holquist	12/4/03	14:35	STL	12-04-03	14:35
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
STL	12-04-03	15:15	KR	12/04/03	1515

SPECIAL INSTRUCTIONS
* Hold Methyl Mercury samples.
8-2.0°C

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URSF-075C/1 OF 1/CofCR/GCM

532/4264

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayer / Andrew Brayer

LAB STL-Buffalo

COOLER 6 of 6

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40 mL VOA w/HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2378-TCDD) (1L Amber)	Metals/Total Cn (16 oz NOPE w/HNO3)	TDS/TSS/CF/SO4 (16 oz NOPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-011A-P3	12/3/03	15:40	G	GW03-011A-P3	WG	18	3	2	2	2	1	2	1	1		N	—	—	—
Field QC	12/3/03	—	—	TB-5-12/03/02	WQ	1	1									TB5	—	—	—
GW03-011B-P4	12/3/03	15:00	G	GW03-011B-P4	WG	4				2	1	1				N	—	—	—

MATRIX CODES					
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC
	LH - HAZARDOUS LIQUID WASTE				
	LF - FLOATING/FREE PRODUCT ON GW TABLE				

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andy Brayer	12/3/03	17:15	[illegible]	12-3-03	1715
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[illegible]	12-3-03	1800	[illegible] STL-Buffalo	12/3/03	1800

SPECIAL INSTRUCTIONS

*If any questions, contact Jim Lehnen at 1-800-850-9230

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6 0.2.0°C

URSF-075C/1 OF 1/CoICR/GCM

493/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman/Andrew Bryan URS DAN TOBIN

DELIVERY SERVICE: Courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 6 of 6

PAGE 2 of 2

TESTS: Alkalinity (Carbonate/Bicarb); Total Hardness; Total Dissolved Solids; Hydrographic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz NONE; 4 oz NONE w/ HNO3; 4 oz NONE (No Sol); 4 oz NONE w/ NaOH

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz NONE	4 oz NONE w/ HNO3	4 oz NONE (No Sol)	4 oz NONE w/ NaOH					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-011A-P3	12/3/03	15:40	G	GW03-011A-P3	WG	—	1	1	1	1						N	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# TRIP BLANK; SD# MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/3/03	17:15	[signature]	12-3-03	1715
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03		[signature] STL-Buffalo	12/3/03	1820

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files 6.2.0°C

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller/Melissa Nemeth

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: ——

LAB STL-Buffalo

COOLER 1 of 6

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml-glass vial-unpres.)	TOC (40 ml-glass vial-HCl)	TCL SVOCs (1 l. amber glass)	TCL Pesticides (1 l. amber glass)	TCL PCBs (1 l. amber glass)	DIOXIN (2,3,7,8-TCDD) (1 l. amber glass)	Metals/ Total Hg (16 oz. HDPE bottle-HNO3)	TDS/TSS/ Cl-/SO4 (16 oz. HDPE bottle-unpres)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
FIELD QC	12-3-03	—	grab	TB4-120303	WQ	1	1								TRIP BLANK	TB4	—	—	—
GW03-010A-P2	12-3-03	1625	grab	GW03-010A-P2	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	1500	[signature] STL-Buffalo	12/3/03	18 00

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

6 @ 2.0°C

URSF-075C/1 OF 1;CofCR/GCM

497/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Melissa Nemeth

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 6

PAGE 2 of 2

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	Alkalinity (Carb.+Bicarb.) 8oz. HDPE-unpres.	Total Hardness 4oz. HDPE w/HNO3 ~~Na2S2O3~~	Total Coliform, E. Coli 4oz. HDPE w/Na2S2O3	Heterotrophic Plate Count 4oz. HDPE w/Na2S2O3	Methyl Hg 12oz. glass-unpres.				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010A-P2	12-3-03	1625	grab	GW03-010A-P2	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES			
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	1500	[signature] STL-Buffalo	12/3/03	1500

SPECIAL INSTRUCTIONS
* Hold Methyl Hg sample

Distribution: Original accompanies shipment, copy to coordinator field files

6 @ 2.0°C

URSF-075C/1 OF 1/CofCR/GCM

498/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174932.00006

SITE NAME NYPA GW Investigation

LAB STL-Buffalo

COOLER 2,3,4,5 of 6

PAGE 1 of 2

SAMPLERS (PRINT/SIGNATURE) Gordy/R Pekarski, Jerry Grach, Randy S. Hearn

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.:

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (23,378-TCDD); Metals/Total Hg; TDS/TSS; Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 1L HDPE; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA	1L Amber	1L Amber	1L Amber	1L Amber	1L HDPE	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-008A-P3	12/3/03	1550	Grab	GW03-008A-P3	WG	~~18~~ 19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-006A-P5	12/3/03	1310	Grab	GW03-006A-P5	WG	~~18~~ 19	3	2	2	2	1	2	1	1		N1	—	—	—
TB6-120303	12/3/03	—	grab	TB6-120303	WQ	1	1								TRIP BLANK GW-03-005/006	TB6	—	—	—
GW03-004A-P2	12/3/03	1520	Grab	GW03-004A-P2	WG	~~18~~ 19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-004A-P1	12/3/03	1545	Grab	GW03-004A P1	WG	~~18~~ 19	3	2	2	2	1	2	1	1	TRIP BLANK - GW03-004	TB7	—	—	—
TB7-120303	12/3/03	—	grab	TB7-120303	WQ	1	1									N1	2-8.M		

S.M.

S.M.

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Jerry Grach	12/3/03	1710	[signature]	12/3/03	1710
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	1800	[signature] STL-Buffalo	12/3/03	1800

SPECIAL INSTRUCTIONS: Any Questions contact Jim Lehman 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files 6 @ 2.0 lb

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J. Glady / R. Pelkowski

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: —

LAB STL - Buffalo

COOLER 2,3,4,5 of 6

PAGE 2 of 2

TESTS: Alkalinity Cal + Bicarb; Total Hardness; Total Coliform E. Coli; Heterotrophic Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: Pore HDPE; 4oz HDPE; 4oz HDPE w NaOH; 4oz HDPE NaS2O3; 8oz. glass - unpreserved

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Pore HDPE	4oz HDPE	4oz HDPE w NaOH	4oz HDPE NaS2O3	8oz. glass - unpreserved	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-008A-P3	12/5/03	1550	Grab	GW03-008A-P3	WG	—	1	1	1	1	1		N1	—	—	—
GW03-006A-P5	12/3/03	1310	Grab	GW03-006A-P5	WG	—	1	1	1	1	1		N1	—	—	—
GW03-004A-P2	12/3/03	1520	Grab	GW03-004A-P2	WG	—	1	1	1	1	1		N1	—	—	—
GW03-002A-P1	12/3/03	1545	Grab	GW03-002A-P1	WG	—	1	1	1	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/4/03	1710	[signature]	12-3-03	1710
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-3-03	1500	[signature] STL-Buffalo	12/3/03	1500

SPECIAL INSTRUCTIONS: * Hold Methyl Hg

Distribution: Original accompanies shipment, copy to coordinator field files

6A2.0°C

URSF-075C/1 OF 1/CofCR/GCM

496/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA GW investigation

SAMPLERS (PRINT/SIGNATURE) Matthew E. Hofgrist / Jerry Grady / Randy Kiepski

DELIVERY SERVICE: courier to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1,2 of

PAGE 1 of 2

TESTS: TPH 8015 | TCL | TCL SVOCs | TCL Pesticides | TCL PCBs | Dioxins (2,3,7,8 TCDD only) | Metals Total Hg | TAL/TSS/Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA | 40 mL VOA w/HCl | 1L Amber | 1L Amber | 1L Amber | 1L Amber | 16 oz HDPE w/HNO3 | 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA w/HCl	1L Amber	1L Amber	1L Amber	1L Amber	16 oz HDPE w/HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007A-P1	12/4/03	1430	Grab	GW03-007A-P1	WQ	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-007B-P4	12/4/03	1430	Grab	GW03-007A-P4	WQ	19	3	2	2	2	1	2	1	1		N1	—	—	—
TB-5-12/4/03	12/4/03	N/A	N/A	TB5-12/4/03	WQ	1	1									TB5	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew Hofgrist	12/4/03	17:00	[signature]	12-4-03	1700
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-4-03	17:40	for Jerry SA Burton	12/04/03	17:40

SPECIAL INSTRUCTIONS: If any questions, contact Jim Lehnen 1(800)850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

402.00

URSF-075C/1 OF 1/CofCR/GCM

499/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006
SITE NAME NYPA GW investigation

SAMPLERS (PRINT/SIGNATURE) M Helquist / J. Grady / R Kopaski — [signature]

DELIVERY SERVICE: URS courier to lab AIRBILL NO.: —

LAB STL Buffalo
COOLER 02 of
PAGE 2 of 2

TESTS (with BOTTLE TYPE AND PRESERVATIVE):
1. Alkalinity (carbonate) — 8 oz HDPE
2. Total Hardness — 4 oz HDPE w/HNO3
3. Total Cyanide — 4 oz HDPE w/NaOH
4. Hexavalent Chromium / Electrical Conductivity — 4 oz HDPE w/NaHCO3
5. Methyl Hg — 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Test 1	Test 2	Test 3	Test 4	Test 5				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007A-P1	12/4/03	1430	Grab	GW03-007A-P1	WG	—	1	1	1	1	1					N1	—	—	—
GW03-007A-P4	12/4/03	1430	Grab	GW03-007B-P4	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES					
AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/4/03	1700	[signature]	12-4-03	1700
[signature]	12-4-03	17:40	RECEIVED FOR LAB BY (SIGNATURE): [signature] SA Butler	12/4/03	17:40

SPECIAL INSTRUCTIONS
* Hold Methyl Mercury samples.

Distribution: Original accompanies shipment, copy to coordinator field files 4@2.0°C

500/5179

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman / Andrew Brayman

LAB STL-Buffalo

COOLER 3+4 of 4

PAGE 1 of 2

DELIVERY SERVICE: URS Courier to lab AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA w/HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals/ Total Hg (16oz HDPE)	TDS/TSS/ Cl-/SO4 (16oz HDPE w/HNO3)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-0133-P5	12/4/03	14:55	G	GW03-0133-P5	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-0133-P4	12/4/03	16:10	G	GW03-0133-P4	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	12/4/03	—	—	TB-6-12/4/03	WQ	2	2									TB6	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andrew B Brayman	12/4/03	16:55	[signature]	12-4-03	16:55
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-4-03	17:40	for by SA Butler	12/5/03	17:40

SPECIAL INSTRUCTIONS
* If any questions, contact Jim Lehman at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

4e2.0°C

URSF-075C/1 OF 1/CofCR/GCM

501/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman/[signature] Dan Tobin/[signature]

DELIVERY SERVICE: Courier to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 3+4 of 4

PAGE 2 of 2

TESTS: Alkalinity (Carbonate Bicarb); Total Hardness; Total Coliform & e. coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz NOPE; 4 oz NOPE w/HNO3; 4 oz HDPE w/Na2S2O3; 4 oz NOPE w/Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz NOPE	4 oz NOPE w/HNO3	4 oz HDPE w/Na2S2O3	4 oz NOPE w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013B-P5	12/4/03	14:55	G	GW03-013B-P5	WG	—	1	1	1	1						MI	—	—	—
GW03-013B-P4	12/4/03	16:10	G	GW03-013B-P4	WG	—	1	1	1	1						MI	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/4/03	16:55	[signature]	12-4-03	16:55
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-4-03	17:40	for Joy SA Bath	12/4/03	17:40

SPECIAL INSTRUCTIONS

@2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

502/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA Investigation

SAMPLERS (PRINT/SIGNATURE) Kendy, R. Pokluski, M. Holquist, K. Jackson

LAB STL - Buffalo

COOLER 3,4,5,6 of 6

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml VOA)	TOC (40 ml VOA HCL)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (1L Amber)	metals (16 oz HDPE w/ HNO3)	Total Hg TDS/TSS Cl⁻/Br⁻ (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-009A-P1	12/5/03	0940	Grab	GW03-009A-P1	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-009A-P2	12/5/03	1205	Grab	GW03-009A-P2	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-009B-P4	12/5/03	0915	Grab	GW03-009B-P4	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-009B-P5	12/5/03	1230	Grab	GW03-009B-P5	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
TB3-120503	12/5/03	—	Grab	TB3-120503	WG	1	1								TRIP BLANK	TB3	-	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/5/03	13:55	[signature] STL	12-5-03	13:55
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] STL	12-5-03	14:30	[signature] STL Buffalo	12/05/03	1500

SPECIAL INSTRUCTIONS
Problems/Questions contact
Jim Lehman @ URS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 QF1/CofCR/GCM

602.000

503/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00000

SITE NAME NYPA Investigation

SAMPLERS (PRINT/SIGNATURE) J Gerdy, R. Pekowski, M. Holzwart, K. Jackson

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

LAB STL - Buffalo

COOLER 3,4,5,6 of 4

PAGE 2 of 2

TESTS: Alka Linity (Carb + bi Carb); Total Hardness; Total Coliform/E.Coli; Heterotrophic plate Count; mercury/Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE w/HNO3; 4 oz HDPE w/NaOH+ZnO3; 4oz HDPE w/NaOH+ZnO3; 1oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8oz HDPE	4oz HDPE w/HNO3	4 oz HDPE w/NaOH+ZnO3	4oz HDPE w/NaOH+ZnO3	1oz Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-009A-P1	12/5/03	0940	Grab	GW03-009A-P1	WG	—	1	1	1	1	1					N1	—	—	—
GW03-009A-P2	12/5/03	1205	Grab	GW03-009A-P2	WG	—	1	1	1	1	1					N1	—	—	—
GW03-009B-P4	12/5/03	0915	Grab	GW03-009B-P4	WG	—	1	1	1	1	1					N1	—	—	—
GW03-009B-P5	12/5/03	1230	Grab	GW03-009B-P5	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/5/03	13:55	[signature] STL	12-5-03	13:55
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] STL	12-5-03	14:30	[signature] STL Buffalo	12/5/03	1500

SPECIAL INSTRUCTIONS: Hold mercury/Hg

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

6@2.0°C

504/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

LAB STL-Buffalo

COOLER 1 of 6

PAGE 1 of 2

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Melissa Nemeth

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml. glass vial-unpres.)	TOC (40 ml. glass vial-HCl)	TCL SVOCs (1 L. amber glass-unpres.)	TCL Pesticides (1 L. amber glass-unpres.)	TCL PCBs (1 L. amber glass-unpres.)	Dioxin (2,3,7,8-TCDD) (1 L. amber glass-unpres.)	Metals/ Total Hg (1 L. ~~amber plastic-unpres.~~)	TDS/TSS/ Cl-/SO4 (16 oz. HDPE, unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014B-P4	12-5-03	1000	grab	GW03-014B-P4	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	12-5-03	—	grab	TB1-120503	WQ	1	1								TRIP BLANK	TB1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-5-03	13:55	[signature] STL	12-5-03	13:55
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] STL	12-5-03	14:30	[signature] STL	12/5/03	1500

SPECIAL INSTRUCTIONS
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

6 @ 2.0°C

505/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller, Melissa Nemeth

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 6

PAGE 2 of 2

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	Alkalinity (Carb. & Bicarb.) 8oz. HDPE-unpres.	Total Hardness 4oz. HDPE-HNO3	Total Coliforms E. Coli. 4oz. HDPE-w/Na2S2O3	Heterotrophic Plate Count 4oz. HDPE-w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014B-P4	12-5-03	1000	grab	GW03-014B-P4	WG	—	1	1	1	1						N1	—	—	—
	~~12-5-03~~ S.M.																		

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
S.M.	12-5-03	1355	STL	12-5-03	1355
STL	12-5-03	1430	STL Buffalo	12/5/03	1500

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCH/GCM

602.0°C

506/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman/[signature] DAN TOBIN [signature]

DELIVERY SERVICE: Courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 2 of 6

PAGE 1 of 2

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs 40 mL VOA	TOC 40 mL VOA w/HCl	TCL SVOCs 1 L Amber	TCL Pesticides 1 L Amber	TCL PCBs 1 L Amber	Dioxin (2,3,7,8-TCDD) 1 L Amber	Metals/Total Hg 16 oz HDPE w/HNO3	TDS/TSS/Cr/SO4 16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013C-P7	12/5/03	10:45	G	GW03-013C-P7	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
Field QC	12/5/03	-	-	TB-2-12/05/03	WQ	1	1									TB2	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/5/03	13:45	[signature]	12-5-03	13:45
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-5-03	13:55	[signature] STL	12-5-03	13:55

SPECIAL INSTRUCTIONS
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

LAB STL-Buffalo

COOLER 2 of 6

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE) Andy Braymer/[signature] DAN TOBIN [signature]

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

TESTS: Alkalinity Carbonate Bicarb; Total Hardness; Total coliform & coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE w/ HNO_3; 4 oz HDPE w/ $Na_2S_2O_3$; 4 oz HDPE w/ $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE w/ HNO_3	4 oz HDPE w/ $Na_2S_2O_3$	4 oz HDPE w/ $Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013C-P7	12/5/03	10:45	G	GW03-013C-P7	WG	-	1	1	1	1						N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/5/03	13:45	[signature]	12-5-03	13:45
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12/5/03	13:55	[signature] STL	12-5-03	13:55

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

12-5-03 14:32

URSF-075C/1 OF 1/CofCR/GCM

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508/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steve Moeller, Melissa Nemeth

LAB STL-Buffalo

COOLER 1, 2, 3 of 7

PAGE 1 of 2

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40ml-glass vial-unpres.)	TOC (40ml-glass vial-HCl)	TCL SVOCs (1 L-amber glass-unpres.)	TCL Pesticides (1 L-amber glass-unpres.)	TCL PCBs (1 L-amber glass-unpres.)	Dioxin (2,3,7,8-TCDD) (1 L-amber glass-unpres.)	Metals/Total Hg (16oz HDPE w/ HNO_3)	TDS/TSS/Cl^-/$SO_4^=$ (16oz HDPE-unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
FIELD QC	12-8-03	—	grab	TB1-120803	WQ	2	2								TRIP BLANK	TB1	—	—	—
GW03-014B-P5	12-8-03	1200	grab	GW03-014B-P5	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-014B-P5	12-8-03	1200	grab	GW03-014B-P5 MS	WG	18	3	2	2	2	1	2	1	1	MATRIX SPIKE	MS1	—	—	—
GW03-014B-P5	12-8-03	1200	grab	GW03-014B-P5 MSD	WG	18	3	2	2	2	1	2	1	1	MATRIX SPIKE DUPLICATE	SD1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-8-03	14:00	[signature] STL	12-08-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

7 @ 3.4°C

URSF-075C/1 OF 1/CofCR/GCM

513/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller/Melissa Nemeth

LAB STL-Buffalo

COOLER 1,2,3 of 7

PAGE 2 of 2

DELIVERY SERVICE: courier AIRBILL NO.: Lab →

TESTS: Alkalinity (Carb. + Bicarb.); Total Hardness; Total Coliforms/E. Coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE-unpres.; 4oz. HDPE-HNO_3; 4oz. HDPE-w/$Na_2S_2O_3$; 4oz. HDPE-w/$Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz. HDPE-unpres.	4oz. HDPE-HNO_3	4oz. HDPE-w/$Na_2S_2O_3$	4oz. HDPE-w/$Na_2S_2O_3$	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014B-P5	12-8-03	1200	grab	GW03-014B-P5	WG	—	1	1	1	1		N1	—	—	—
GW03-014B-P5	12-8-03	1200	grab	GW03-014B-P5MS	WG	—	1	1	1	1	MATRIX SPIKE	MS1	—	—	—
GW03-014B-P5	12-8-03	1200	grab	GW03-014B-P5MSD	WG	—	1	1	1	1	MATRIX SPIKE DUPLICATE	SD1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-8-03	1400	[signature] STL	12-08-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 7@3.4°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

514/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Grady / R. Pekarski Jerry Grady Randy S. Pekarski

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: —

LAB STL - BUFFALO

COOLER 3 of 4

PAGE 1 of 2

TESTS: TCL VOCs TOC; TCL SVOCs; TCL Pests; TCL PCBs; Dioxin (2,3,7,8-TCDD); Metals (Total Hg); TDS/TSS Cl/Sol

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA w/HCL; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16oz HDPE w/HNO3; 16oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA w/HCL	1L Amber	1L Amber	1L Amber	1L Amber	16oz HDPE w/HNO3	16oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-001A-P1	12/8/03	1540	GRAB	GW03-001A-P1	WG	19	3	2	2	2	1	2	1	1		NL	—	—	—
FIELD QC TB6-12-8-03	12/8/03	—	—	TB6-120803	WQ	1	1								TRIP BLANK	TB6	—	—	—

MATRIX CODES: AA - AMBIENT A; SE - SEDIMENT; SH - HAZARDOU SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLAN; SD# - MATRIX S KE DUPL CATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Jerry Grady	12/8/03	1910			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] STL	12/08/03	1910

SPECIAL INSTRUCTIONS: Questions/Comments Contact Jim Lehren 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/Co:CR/GCM

537/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Grady / R Rehanski

DELIVERY SERVICE: Delivered to lab by URS AIRBILL NO.: —

LAB STL - Buffalo

COOLER 3 of 4

PAGE 2 of 2

TESTS: Alk (Carb + Bicarb); Total Hard; Total Calcium; Total Coli; Heterotrophic Plate Ct; Anthy/Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE; 4 oz HDPE w/ NaOH; 4 oz HDPE w/ NaS2O3; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE	4 oz HDPE w/ NaOH	4 oz HDPE w/ NaS2O3	12 oz glass	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-001A-P1	12/8/03	1540	Grab	GW03-001A-P1	GW	—	1	1	1	1	1		N1	—	—	—
GW03-005A-P1	12/8/03	1505	Grab	GW03-005A-P1	WG	2			1	1		RESAMPLE	N1	—	—	—
GW03-005A-P1-MS	12/8/03	1505	Grab	GW03-005A-P1-MS	WG	2			1	1		RESAMPLE	N1	—	—	—
GW03-005A-P1-MSD	12/8/03	1505	Grab	GW03-005A-P1-MSD	WG	2			1	1		RESAMPLE	N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	12/8/03	1910			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE) STL	DATE	TIME
				12/08/03	1910

SPECIAL INSTRUCTIONS: * Hold Methyl Hg

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson — Matthew E Holquist

DELIVERY SERVICE: courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 6 of 7

PAGE 1 of 2

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/HCl)	TCL SVOCs (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCB (1 L Amber)	Dioxin (2,3,7,8-TCDD) (1 L Amber)	Metals/ Total Hg (16 oz HDPE w/HNO3)	TDS/TSS/ C-1504 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-009B-Pb	12/8/03	1040	Grab	GW03-009B-Pb	WG	19	3	2	2	2	1	2	1	1		N	—	—	—
TB-03-12/8/03	12/8/03	—	—	TB-03-12/8/03	WQ	1	1								TRIP BLANK	TB3	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew E Holquist	12/8/03	17:00	Cliff Hyde STL	12-08-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: If any questions, contact Jim Lehnen at (800) 850-9230.

Distribution: Original accompanies shipment, copy to coordinator field files

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URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist/K. Jackson

LAB STL-Buffalo

COOLER 6 of 7

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Alk (Bicarb) 8 oz HDPE	Total Hardness 4 oz HDPE w/HNO3	Total coliform/ecoli 4 oz HDPE w/Na2S2O3	Heterotrophic Plate Count 4 oz HDPE w/Na2S2O3	Methyl Hg 12 oz glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-009B-P6	12/8/03	1040	GRAB	GW03-009B-P6	WG	-	1	1	1	1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Maureen E Holquist	12/8/03	14:00	Chris Pye STL	12/08/03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: * Hold Methy Hg samples.

Distribution: Original accompanies shipment, copy to coordinator field files 7 @ 3.4°C

URSF-075C/1 OF 1/CofCR/GCM

512/5179

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00106

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Melissa Nemeth

LAB STL-Buffalo

COOLER 4 of 4

PAGE 1 of 2

DELIVERY SERVICE: Delivered to lab by URS AIRBILL NO.: —

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml. glass vial-unpres.)	TOC (40 ml. glass vial-HCl)	TCL SVOCs (1 l. amber glass-unpres.)	TCL Pesticides (1 l. amber glass-unpres.)	TCL PCBs (1 l. amber glass-unpres.)	Dioxins (2,3,7,8-TCDD) (1 l. amber glass-unpres.)	Metals/ Total Hg (16 oz. HDPE w/HNO3)	TDS/TSS/ Cl-/SO4 (16 oz. HDPE unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014B-P6	12-8-03	11:25	grab	GW03-014B-P6	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	12-8-03	—	grab	TB4-120803	WQ	1	1								TRIP BLANK	TB4	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-8-03	1910	[signature] STL	12/08/03	1910

SPECIAL INSTRUCTIONS
* If any questions, contact Jim Lehner at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00.06

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Melissa Nemeth

LAB STL-Buffalo

COOLER 4 of 4

PAGE 2 of 2

DELIVERY SERVICE: Delivered to lab by URS AIRBILL NO.: ——

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	Alkalinity (Carb.+Bicarb.) 8oz. HDPE-unpres.	Total Hardness 4oz. HDPE-w/HNO3	Total Coliform/ E. Coli. 4oz. HDPE-w/Na2S2O3	Heterotrophic Plate Count 4oz. HDPE w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014B-P6	12-8-03	16 25	grab	GW03-014B-P6	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	
[signature]	12-8-03	1910	[signature]	12/08/03	1910	

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Bergman / Andrew Berger DAN TOBIN

LAB STL-Buffalo

COOLER 1+2 of 2

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 mL VOA)	TDC (40 mL VOA w/HCl)	TCL SVOCs (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCBs (1 L Amber)	Dioxin (2,3,7,8-TCDD) (1 L Amber)	Metals / Total Hg (16 oz HDPE w/HNO3)	TDS / TSS / Cl- / SO4- (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P1	12/8/03	13:05	G	GW03-015A-P1	WG	18	3	2	2	2	1	2	1	1		N	—	—	—
GW03-015B-P4	12/8/03	16:30	G	GW03-015B-P4	WG	18	3	2	2	2	1	2	1	1		N	—	—	—
Field QC	12/8/03	—	—	TB-5-12/08/03	WQ	1	1									TB5	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andrew B Berger	12/8/03	18:15	[signature]	12-8-03	18:15
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	12-8-03	1910	[signature] STL	12/8/03	1910

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

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PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

LAB STL-Buffalo

COOLER 1+2 of 4

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE) Andy Blayman/Andre Bergen Dave Tosin

DELIVERY SERVICE: Courier to lab AIRBILL NO.: —

TESTS: Alkalinity (Carbonate Bicarb) | Total Hardness | Total coliform & e coli | Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE | 4 oz HDPE w/HNO3 | 4 oz HDPE w/Na2S2O3 | 4 oz HDPE w/Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE w/HNO3	4 oz HDPE w/Na2S2O3	4 oz HDPE w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P1	12/8/03	13:05	G	GW03-015A-P1	WG	—	1	1	1	1						N	—	—	—
GW03-015B-P4	12/8/03	16:30	G	GW03-015B-P4	WG	—	1	1	1	1						N	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andre D Bergen	12/8/03	18:15	[signature]	12-8-03	18:15
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	12-8-03	1910	[signature] STL	12/8/03	1910

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

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PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Gracy / R. Rekarski

LAB STL-Buffalo

COOLER 1, 5 of 7

PAGE 1 of 2

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs	TOC	TCL SVOCs	TCL Pesticides	TCL PCBs	Dioxin (2,3,7,8-TCDD)	metals/ Total Hg	TDS/TSS Cl⁻/SO₄	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-006B-P2	12/8/03	1015	Grab	GW03-006B-P2	WG	19	3	2	2	2	1	2	1	1		N1		—	—
GW03-006B-P4	12/8/03	1210	Grab	GW03-006B-P4	WG	19	3	2	2	2	1	2	1	1		N1		—	—
TB2-120803	12/8/03	—	—	TB2-120803	WQ	1	1								Trip Blank TB2			—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-8-03	14:00	[signature] STL	12-8-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Problems / Questions Contact Jim Lehnen @ URS

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CHAIN OF CUSTODY RECORD

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PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Gary Grady / Randy Pedlosky

LAB STL-Buffalo

COOLER 4.5 of 7

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Alkalinity (carb. bicarb)	Total Hardness	Total Cl/Fluoride/Sulfate	Heterotrophic Plate Count	methyl Hg	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							8 oz HDPE	4 oz HDPE w/ HNO_3	4 oz HDPE w/ $NaAsO_2$	4 oz HDPE w/ NaS_2O_3	12 oz H_2O_2					
GW03-006B-R2	12/8/03	10:[illegible]	Grab	GW03-006B-R2	WG	—	1	1	1	1	1		N1			
GW03-006B-P4	12/8/03	12:[illegible]0	Grab	GW03-006B-P4	WG	—	1	1	1	1	1		N1			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Gary Grady	12/8/03	14:02	STL	12-09-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: *Hold methyl Hg

Distribution: Original accompanies shipment, copy to coordinator field files

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URSF-075C/1 OF 1/ PofCR/GCM

532/6118

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CHAIN OF CUSTODY RECORD

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PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman / Dan Togin

DELIVERY SERVICE: Courier AIRBILL NO.: —

LAB STL- Buffalo

COOLER 1 of 1

PAGE 1 of 2

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA w/HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals/ Total Hg (16 oz HDPE w/HNO3)	TDS/TSS/ Cl-/SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-013A-P3	12/8/03	9:50	G	GW03-013A-P3	WG	18	3	2	2	2	1	2	1	1		N	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/8/03	12:00	[signature]	12-8-03	12:00
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
[signature]	12-8-03	14:00	[signature] STL	12-8-03	14:00

SPECIAL INSTRUCTIONS: * No trip blank (Side & back)

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7@34°C

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayer, Chris Bryan

DAN TOSINI

DELIVERY SERVICE: Courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 7 of 7

PAGE 2 of 2

TESTS: Alkalinity (Carb & Bicarb), Total Hardness, Total coliform & Coli, Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE w/ HNO_3; 4 oz HDPE w/ $Na_2S_2O_3$; 4 oz HDPE w/ $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE w/ HNO_3	4 oz HDPE w/ $Na_2S_2O_3$	4 oz HDPE w/ $Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013A-P3	12/8/03	9:50	G	GW03-013A-P3	WG	—	1	1	1	1						N	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andy Brayer, Chris Bryan	12/8/03	12:00	[signature]	12/8/03	12:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-8-03	14:00	[signature] STL	12-08-03	14:00

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

7 @ 3.4°C

Distribution: Original accompanies shipment, copy to coordinator/field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00000 6

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) J. Grady / R. Pekarski

LAB STL - Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: ____ AIRBILL NO.: ____

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 ml VOA)	TOC (40 ml VOA)	TCL SVOCs (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCB's (1 L Amber)	Dioxin (2,3,7,8-TCDD) (1 L Amber)	metals (16 oz HDPE w/HNO3)	Total Hg (16 oz HDPE)	TDS/TSS Cl-/SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-WC-P1	12/9/03	1130	Grab	GW03-WC-P1	WG	19	3	2	2	2	1	2	1	1			N1	-	-	-
TB1 120903				TB1 120903	WQ	1	1													

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Jerry Grady	12/9/03	1350	[illegible] STL	12-09-03	13:50
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

Zero °C

URSF-075C/1 OF 1/CofCR/GCM

539/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171432.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J. Grady/R. Pelkarski

LAB STL-Buffalo

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: —

TESTS: Alkalinity (carb-bicarb); Total Hardness; Total Coliform/Heterotrophic Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE w/ HNO_3; 4oz HDPE w/ $Na_2S_2O_3$; 4oz HDPE w/ $Na_2S_2O_3$; 12 oz. Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE w/ HNO_3	4oz HDPE w/ $Na_2S_2O_3$	4oz HDPE w/ $Na_2S_2O_3$	12 oz. Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-002A-P1	12/9/03	11:30	Grab	GW03-002A-P1	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
J. Grady	12/9/03	1350	STL	12-09-03	13:50
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Hold methyl Hg

Distribution: Original accompanies shipment, copy to coordinator field files

2°C

URSF-075C/1 OF 1/CofCR/GCM

540/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Braymer / [illegible]

DELIVERY SERVICE: Courier AIRBILL NO.: –

LAB STL-Buffalo

COOLER 1 of 1

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA w/HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals / Total Hg (16oz HDPE w/HNO3)	TDS/TSS/Cl-/SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-01SA-P3	12/9/03	9:00	G	GW03-01SA-P3	WG	18	3	2	2	2	1	2	1	1		N	–	–	–
Field QC	12/9/03	–	–	TB-2-12/9/03	WQ	1	1									TB	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/9/03	13:20	[signature] STL	12-09-03	13:50
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

202.02

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman/[illegible]

LAB STL-Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	Alkalinity (Carb + Bicarb) 8 oz HDPE	Total Hardness 4 oz HDPE w/HNO3	Total coliform 2 oz HDPE w/Na2S2O3	Heterotrophic Plate Count 4 oz HDPE w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P3	12/9/03	9:00	G	GW03-015A-P3	WG	—	1	1	1	1						N	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andy D. Bray	12/9/03	13:20	[illegible] STL	12-09-03	13:20
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

282.0°C

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman [signature] DAN TOBIN/[signature]

LAB STL-Buffalo

COOLER 1+2 of 2

PAGE 1 of 2

DELIVERY SERVICE: URS Courier to lab AIRBILL NO.: —

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8-TCDD); Metals/Total Hg; TDS/TSS/Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 4/40mL VOA; 4/40mL VOA w/HCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16 oz NOPAC w/HNO3; 16 oz NOPAC

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	4/40mL VOA	4/40mL VOA w/HCl	1L Amber	1L Amber	1L Amber	1L Amber	16 oz NOPAC w/HNO3	16 oz NOPAC	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
GW03-015B-P6	12/9/03	13:10	G	GW03-015B-P6	WG	18	3	2	2	2	1	2	1	1		N	-	-	-
GW03-015C-P7	12/9/03	15:30	G	GW03-015C-P7	WG	18	3	2	2	2	1	2	1	1		N	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andrew B. Brayman	12/9/03	16:30	[signature]	12-9-03	16:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-9-03	1730	[signature]	12/9/03	1730

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

2020c

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Blaymer/[signature] DAN TOBIN/[signature]

LAB STL-Buffalo

COOLER 1 of 2

PAGE 2 of 2

DELIVERY SERVICE: URS Courier to lab AIRBILL NO.: —

TESTS: Alkalinity (Carb + Bicarb); Total Hardness; Total Chloride & Cal.; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz NOPE; 4 oz NOPE w/HNO3; 4 oz NOPE w/NaS2O3; 4 oz NOPE w/NaS2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz NOPE	4 oz NOPE w/HNO3	4 oz NOPE w/NaS2O3	4 oz NOPE w/NaS2O3				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-015B-P6	12/9/03	13:10	G	GW03-015B-P6	WG	—	1	1	1	1					N	-	-	-
GW03-015C-P7	12/9/03	15:30	G	GW03-015C-P7	WG	—	1	1	1	1					N	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/9/03	16:30	[signature]	12-9-03	16:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-9-03	17:30	[signature] SZ	12/09/03	17:30

SPECIAL INSTRUCTIONS: * No trip blanks - trip blanks had frozen & broke vials

Distribution: Original accompanies shipment, copy to coordinator field files

202.0°-

URSF-075C/1 OF 1/CofCR/GCM

544/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Bergman / [signature] DAN TUBIN / [signature]

LAB STL - Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2378-TCDD); Metals/Total Hg; TDS/TSS/Cl-/SO4-

BOTTLE TYPE AND PRESERVATIVE: 40mL VOA; 40mL VOA w/HCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16oz HDPE w/HNO3; 16oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40mL VOA	40mL VOA w/HCl	1L Amber	1L Amber	1L Amber	1L Amber	16oz HDPE w/HNO3	16oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015B-PS	12/10/03	11:00	G	GW03-015B-PS	WG	18	3	2	2	2	1	2	1	1		N	–	–	–
Field QC	12/10/03	—	—	TB-2-12/10/03	WQ	1	1									TB	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/10/03	14:05	[signature] STL	12/10/03	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

482 00

545/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Blayney / Andy Blayney DAN TUBIN / [illegible]

DELIVERY SERVICE: Courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 1

PAGE 2 of 2

TESTS: Alkalinity (Ca, Mg, K, Na); Total Hardness; Total coliform & e coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE w/HNO3; 4 oz HDPE w/Na2S2O3; 4 oz HDPE w/Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE w/HNO3	4 oz HDPE w/Na2S2O3	4 oz HDPE w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015B-PS	12/10/03	11:00	G	GW03-015B-PS	WG	—	1	1	1	1						N	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andy A Blayney	12/10/03	14:00	[illegible] STL	12-10-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files 402.00

URSF-075C/1 OF 1/CofCR/GCM

546/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holzist - Matthew E. Holzist
K. Jackson - Kyle R. Jackson

LAB STL-Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: courier AIRBILL NO.: —

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TESTS: TCL VOCs	TOC	TCL SVOCs	TCL Pesticides	TCL PCBs	Dioxin (2,3,7,8-TCDD)	Metals Total Hg	TDS/TSS/Cl⁻/SO₄⁻	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA	40 mL VOA w/HCl	1L Amber	1L Amber	1L Amber	1L Amber	16 oz. HDPE w/HNO₃	16 oz. HDPE					
GW03-005A-P2	12/10/03	0810	GRAB	GW03-005A-P2	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
TB03-121003	12/10/03	–	–	TB03-121003	WQ	1	1								TB	3			

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew E. Holzist	12/10/03	14:05	STL	12-10-03	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: If any questions, contact Jim Lehnen at 1(800) 850-9230.

Distribution: Original accompanies shipment, copy to coordinator field files

UBZ 8°C

URSF-075C/1 OF 1/CofCR/GCM

547/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holgy, Jr - Matthew E Holgy
K. Jackson - Kyle R Jackson

LAB STL-BUFFALO

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Alkalinity (Carb + bicarb) / 8 oz. HDPE	Total Hardness / 4 oz. HDPE w/ HNO_3	Total Coliform/fecal / 4 oz. HDPE w/ $Na_2S_2O_3$	Heterotrophic Plate Count / 4 oz HDPE w/ $Na_2S_2O_3$	Methyl Hg / 12 oz. glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
GW03-005A-P2	12/10/03	0840	GRAB	GW03-005A-P2	WG	—	1	1	1	1	1					N.	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew E Holgy	12/10/03	14:05	[signature] STL	12-10-03	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
hold methyl Hg samples.
add ~~fecal~~ coliform.

Distribution: Original accompanies shipment, copy to coordinator field files

4°C 0°-

URSF-075C/1 OF 1/ColCR/GCM

548/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00001

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Melissa Nemeth

LAB STL-Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: ____

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 ml. glass Vial-unpres.)	TOC (40 ml. glass Vial-HCl)	TCL SVOCs (1 l amber glass-unpres.)	TCL Pesticides (1 l. amber glass-unpres.)	TCL PCBs (1 l. amber glass-unpres.)	Dioxin (2,3,7,8-TCDD) (1 l. amber glass-unpres.)	Metals / Total Hg (16 oz. HDPE w/HNO3)	TDS/TSS/Cl-/SO4 (16 oz. HDPE-unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERTMS)
GW03-017B-P4	12-10-03	1250	grab	GW03-017B-P4	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	12-10-03	—	grab	TB4-121003	WQ										TRIP BLANK	TB4	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-10-03	14:05	[signature] STL	12/10/03	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

LAB STL- Buffalo

COOLER ____ of ____

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE) Steven Moeller/Melissa Nemeth

DELIVERY SERVICE: Lab Courier AIRBILL NO.: ——

TESTS: Alkalinity (Carb+Bicarb.), Total Hardness, Total Coliform/E. Coli, Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE-unpres., 4oz. HDPE w/HNO3, 4oz. HDPE w/$Na_2S_2O_3$, 4oz. HDPE w/$Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz. HDPE-unpres.	4oz. HDPE w/HNO3	4oz. HDPE w/$Na_2S_2O_3$	4oz. HDPE w/$Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017B-P4	12-10-03	1250	grab	GW03-017B-P4	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-10-03	14:05	[signature] STL	12-10-03	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

402.02

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11174932.000006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Grady/R Pekarsko Randy S. Pekarsko Jerry Grady

LAB SKL - Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: ____

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 ml VOA)	TOC (40 ml VOA)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals/ Total Hg (16 oz HDPE w/HNO3)	TDS/TSS Cl-/SO4 (1 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007A-PC	12/10/03	1030	Grab	GW03-007A-PC	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
TB1-121003	12/10/03		grab	TB1-121003	WQ	1	1												

MATRIX CODES					
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC
					LH - HAZARDOUS LIQUID WASTE
					LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-10-03	14:05	[signature] STL	12-10-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Problems/Questions contact Jim Lehmann @ URS 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Brady/RPekarski Randy P. Pekarski

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

LAB STL - Buffalo

COOLER ____ of ____

PAGE 2 of 2

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE w/HNO3	4oz HDPE NaOH	4oz HDPE NaS2O3	12oz Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							TESTS: Alkalinity (water, bicarb)	Total Hardness	Total Cyanide	Recoverable Phenolics	Methylmercury plate Cu	Methyl Hg							
GW03-007A-P2	12/10/03	1030	Grab	GW03-007A-P2	WG	—	1	1	1	1	1					N			

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Brady	12/10/03	14:05	STL	12-10-03	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Hold methyl Hg

Distribution: Original accompanies shipment, copy to coordinator field files

4@20°C

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Brayman / Andrew Brown URS

DELIVERY SERVICE: Courier to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 2

PAGE 1 of 2

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/HCl)	TCL SVOCs (1 L Amber)	TCL Pesticides TCL PCBs (1 L Amber)	Dioxin (2,3,7,8-TCDD) (1 L Amber)	Metals/ Total Hg (1 L Amber)	TDS/TSS/ CL/SO4 (16 oz HDPE w/HNO3)	(16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (FRHMS)
GW03-015A-P2	12/10/03	1600	G	GW03-015A-P2	WG	18	3	2	2	2	1	2	1	1		N	–	–	–

MATRIX CODES	
	AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES	
	TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andrew B Brown	12/10/03	1730			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	12/10/03	1730

SPECIAL INSTRUCTIONS

* If any questions, contact Jim Lehner at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

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2e2.0c

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Blayman/Andrew Bryan

DELIVERY SERVICE: URS Courier to lab AIRBILL NO.: —

LAB STL- Buffalo

COOLER 1 of 2

PAGE 2 of 2

TESTS: Alkalinity (Carb + Bicarb); Total Hardness; Total Coliform & Col.; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz NOPE; 4 oz NOPE w/HNO3; 4 oz NOPE w/Na2S2O3; 4 oz NOPE w/Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz NOPE	4 oz NOPE w/HNO3	4 oz NOPE w/Na2S2O3	4 oz NOPE w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-01SA-P2	12/10/03	10 00	G	GW03-01SA-P2	WG	—	1	1	1	1						N/	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andrew M Bryan	12/10/03	1730			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	12/10/03	1730

SPECIAL INSTRUCTIONS: * Trip blanks froze & broke in cooler

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Melissa Nemeth

DELIVERY SERVICE: Delivered to lab by URS AIRBILL NO.: —

LAB STL - Buffalo

COOLER 2 of 2

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml glass Vial - unpres.)	TOC (40 ml glass Vial - HCl)	TCL SVOCs (1 L amber glass - unpres.)	TCL Pesticides (1 L amber glass - unpres.)	TCL PCBs (1 L amber glass - unpres.)	Dioxin (2,3,7,8-TCDD) (1 L amber glass - unpres.)	Metals/ Total Hg (16 oz. HDPE w/ HNO3)	TDS/TSS/ Cl-/SO4 (16 oz. HDPE - unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GWD3-017C-P7	12-10-03	1612	grab	GWD3-017C-P7	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature] 12-	10-03	1730	[signature]	12/10/03	1730

SPECIAL INSTRUCTIONS

* If any questions, contact Jim Lehnen at 1-800-850-9230

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2e2.02

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932-00004

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Melissa Nemeth

DELIVERY SERVICE: Delivered to lab by URS AIRBILL NO.: ——

LAB STL-Buffalo

COOLER 2 of 2

PAGE 2 of 2

TESTS: Alkalinity (Carb. + Bicarb.) / Total Hardness / Total Coliform / E. Coli / Fecal / Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE unpres. / 4 oz. HDPE w/HNO3 / 4 oz. HDPE w/$Na_2S_2O_3$ / 4 oz. HDPE w/$Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz. HDPE unpres.	4 oz. HDPE w/HNO3	4 oz. HDPE w/$Na_2S_2O_3$	4 oz. HDPE w/$Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
GW03-017C-P7	12-10-03	1512	grab	GW03-017C-P7	WG	—	1	1	1	1					see below	N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-10-03	1730	[signature] SR	12/10/03	1730

SPECIAL INSTRUCTIONS
* Also analyze for FECAL COLIFORM (Trip Blank froze in cooler and broke) 2e2.0°

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Keady, R. Palkowski, M. Holquist, K. Jackson

LAB STL - Buffalo

COOLER 2+3 of 3

PAGE 1 of 2

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml VOA)	TOC (4 ml VOA w/HCL)	TCL SVOCs (TCL 1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals (1L oz HDPE w/HNO3)	Total Hg TPS/TSS Cl-/SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007A-P3	12/11/03	0830	Grab	GW03-007A-P3	WG	19	3	2	2	2	1	2	1	1		N1	—	-	-
GW03-007B-P5	12/11/03	0900	Grab	GW03-007B-P5	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
TB1-121103	12/11/03	—	—	TB1-121103	WG	1	1								TRIP BLANK	TB	1-	—	—

MATRIX CODES
AA - AMBIENT A[illegible] SE - SEDIMENT SH - HAZARDOU[illegible] SOLID W[illegible]ASTE
SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER
WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS
WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER
WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC
LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLAN[illegible] SD# - MATRIX S[illegible]KE DUPL[illegible]CATE
RE# - RINSE BLANK FF# - FIELD REPLICATE
N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/11/03	13:50	[signature] STL	12-11-03	13:50
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	12/11/03	1430

SPECIAL INSTRUCTIONS
Problems/Questions contact
Jim Lahnen @ URS
302.02

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Grady, R Pekarski, M Holquist, K. Cadkin

LAB STL - Buffalo

COOLER 2+3 of 3

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS: Alkalinity (Carb+Bicarb); Total Hardness; Total Coliform/E Coli; Heterotrophic Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE w HNO3; 4oz HDPE; Na2S2O3; 4oz HDPE Na2S2O3; 12oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE w HNO3	4oz HDPE	Na2S2O3	4oz HDPE Na2S2O3	12oz Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007A-P3	12/11/03	0830	Grab	GW03-007A-P3	WG	—	1	1	1		1	1					N1	—	—	—
GW03-007B-P5	12/11/03	0900	Grab	GW03-007B-P5	WG	—	1	1	1		1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/11/03	13:50	[signature] STL	12-11-03	13:50
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] LR	12/11/03	1430

SPECIAL INSTRUCTIONS: Hold methyl Hg

3e2.0c

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

558/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.10006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Melissa Nemeth

LAB STL - Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (4 oz. glass vial-unpres.)	TOC (4 oz. glass vial-HCl)	TCL SVOCs (1 L. amber glass-unpres.)	TCL Pesticides (1 L. amber glass-unpres.)	TCL PCBs (1 L. amber glass-unpres.)	Dioxin (2,3,7,8-TCDD) (1 L. amber glass-unpres.)	Metals/ Total Hg (16 oz. HDPE w/ HNO3)	TDS/TSS/ Cl-/SO4 (16 oz. HDPE unpres.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017B-P6	12-11-03	1200	grab	GW03-017B-P6	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-11-03	13:50	[signature] STL	12-11-03	13:50
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature] SR	12/11/03	1430

SPECIAL INSTRUCTIONS
*If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

30 2002

559/6118

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller/Melissa Nemeth

LAB STL - Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Alkalinity (Carb.+Bicarb.) 8oz. HDPE unpres.	Total Hardness 4oz. HDPE w/HNO3	Total Coliform/ E. Coli. 4oz. HDPE w/$Na_2S_2O_3$	Heterotrophic Plate Count 4oz. HDPE w/$Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017B-P6	12-11-03	1200	grab	GW03-017B-P6	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-11-03	13:50	[signature] STL	12-11-03	13:50
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] SR	12/11/03	1730

SPECIAL INSTRUCTIONS: * No trip blank (Trip blank froze in cooler & broke 3e2pi

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Bergman/Dan Tobin [signature]

URS

DELIVERY SERVICE: Courier to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 2

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA w/ HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals/ Total Hg (16 oz. HDPE w/ HNO_3)	TDS/TSS/ Cl⁻/SO₄ (16 oz. HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016A-P3	12/11/03	15:00	G	GW03-016A-P3	WG	18	3	2	2	2	1	2	1	1		N	–	–	–

MATRIX CODES					
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC
	LH - HAZARDOUS LIQUID WASTE				
	LF - FLOATING/FREE PRODUCT ON GW TABLE				

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/11/03	1800	[signature]	12/11/03	1800
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Bragan/Dan Fobin [signature]

DELIVERY SERVICE: URS Courier to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 2

PAGE 2 of 2

TESTS: Alkalinity (Carbs & Bicarbs); Total Hardness; Total Coliform 2 col.; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE w/HNO3; 4 oz HDPE w/Na2S2O3; 4 oz HDPE w/Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE w/HNO3	4 oz HDPE w/Na2S2O3	4 oz HDPE w/Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016A-P3	12/11/03	15:00	G	GW03-016A-P3	WG	1	1	1	1	1						N	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Andrew B. Bragan	12/11/03	1800	[signature]	12/11/03	1800
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Melissa Nemeth

LAB STL-Buffalo

COOLER 2 of 2

PAGE 1 of 2

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 ml-glass vial-unpres.)	TOC (40 ml. glass vial-HCl)	TCL SVOCs (1 l. amber glass-unpres.)	TCL Pesticides (1 l. amber glass-unpres.)	TCL PCBs (1 l. amber glass-unpres.)	Dioxin (2,3,7,8-TCDD) (1 l. amber glass-unpres.)	Metals / Total Hg (Aqueous/ Total HNO3)	TDS/TSS/ Cl-/SO4 (TDS/TSS/ Cl-/SO4 S.M.)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017B-P5	12-11-03	1630	grab	GW03-017B-P5	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	12-11-03		grab	TB2-121103	WQ	1	1								TRIP BLANK	TB2	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-11-03	1800	[signature] STL BUFFALO	12/11/03	1800

SPECIAL INSTRUCTIONS
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

LAB STL-Buffalo

COOLER 2 of 2

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE) Steven Moeller/Melissa Nemeth

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: —

TESTS: Alkalinity (Carb. + Bicarb.); Total Hardness; Total Coliform E. Coli.; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE-unpres.; 4oz. HDPE w/ HNO3; 4oz. HDPE w/ $Na_2S_2O_3$; 4oz. HDPE w/ $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz. HDPE-unpres.	4oz. HDPE w/ HNO3	4oz. HDPE w/ $Na_2S_2O_3$	4oz. HDPE w/ $Na_2S_2O_3$	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017B-P5	12-11-03	1630	grab	GW03-017B-P5	WG	—	1	1	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
[signature]	12-11-03	1800	[signature] STL	12/11/03	1800

SPECIAL INSTRUCTIONS

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. MOELLER, M NEMETH / J. Grady, R. Pekarski

DELIVERY SERVICE: Lab Courier AIRBILL NO.: NA

LAB STL BUFFALO

COOLER 1,2,3 of 5

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 mL VOA UNPRESERVED)	TOC (40 mL VOA HCl)	TCL SVOCs (1 L AMBER GLASS)	TCL PESTICIDES (1 L AMBER GLASS)	TCL PCBs (1 L AMBER GLASS)	DIOXIN (2,3,7,8-TCDD) (1 L AMBER GLASS)	METALS/ TOTAL Hg (16 oz HDPE HNO3)	TDS/TSS/ Cl-/SO4 (16 oz HDPE UNPRESERVED)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017A-P2	12/12/03	1200	G	GW03-017A-P2	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-017A-P2	12/12/03	1200	grab	GW03-017A-P2MS	WG	18	3	2	2	2	1	2	1	1	MATRIX SPIKE	MS1	–	–	–
GW03-017A-P2	12/12/03	1200	grab	GW03-017A-P2MSD	WG	18	3	2	2	2	1	2	1	1	MATRIX SPIKE DUPLICATE	SD1	–	–	–
FIELD QC	12/12/03	—	grab	TB1-121203	WQ	2	2								TRIP BLANK	TB1	–	–	–
GW03-002A-P2	12/12/03	0830	grab	GW03-002A-P2	WG	8	3	2					1		PARTIAL VOLUME ONLY	N1	–	–	–
FIELD QC	12/12/03	—	grab	TB2-121203	WQ	1	1								TRIP BLANK	TB2	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-12-03	14:00	[signature] STL	12-12-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
ANY QUESTIONS CONTACT JIM LEHNEN AT 1-800-850-9230
SEE QC

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. MOELLER, M. NEMETH / J. Grady, R. Pekarski

LAB STL BUFFALO

COOLER 1, 2, 3 of 5

PAGE 2 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: NA

TESTS: ALKALINITY (CARB & BICARB); TOTAL HARDNESS; TOTAL COLIFORM / E COLI; HETEROTROPHIC PLATE COUNT

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE UNPRESERVED; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 4 oz HDPE Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE UNPRESERVED	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	4 oz HDPE Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017A-P2	12/12/03	12:00	G	GW03-017A-P2	WG	—	1	1	1	1						N1	0	0	0
GW03-017A-P2	12/12/03	12:00	grab	GW03-017A-P2 MS	WG	—	1	1	1	1					MATRIX SPIKE	MS1	—	—	—
GW03-017A-P2	12/12/03	12:00	grab	GW03-017A-P2 MSD	WG	—	1	1	1	1					MATRIX SPIKE DUPLICATE	SD1	—	—	—
GW03-002A-P2	12/12/03	0830	grab	GW03-002A-P2	WG	—			1	1					Partial volume only	N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-12-03	14:00	[signature] STL	12-12-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 5@2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Andy Braymer/[illegible] Dan Tobin/[illegible]

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

LAB STL-Buffalo

COOLER 4 of 5

PAGE 1 of 2

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA w/HCl)	TCL SVOCs (1L Amber)	TCL Pest/Herb (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals/ Total Hg (16oz HDPE w/HNO3)	TDS/TSS/ Cl- (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016A-P1	12/12/03	9:55	G	GW03-016A-P1	WG	18	3	2	2	2	1	2	1	1		N	—	—	—
GW03-016B-P4	12/12/03	12:10	G	GW03-016B-P4	WG	18	3	2	2	2	1	2	1	1		N	—	—	—
Field QC	12/12/03	—	—	TB-3-12/12/03	WQ	2	2									TB	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[illegible]	12/12/03	14:00	[illegible] STL	12/12/03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

502.0C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

LAB STL - Buffalo

COOLER 4+5 of 5

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE) Andy Blayney / [signature] DAN TORIN / [signature]

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS: Alkalinity (Calcit Acid); Total Hardness; Total Chloride & Sol.; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz NOPE; 4 oz NOPE w/ HNO_3; 4 oz NOPE w/ $Na_2S_2O_3$; 4 oz NOPE w/ $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz NOPE	4 oz NOPE w/ HNO_3	4 oz NOPE w/ $Na_2S_2O_3$	4 oz NOPE w/ $Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016A-P1	12/12/03	9:55	G	GW03-016A-P1	WG	—	1	1	1	1						N	—	—	—
GW03-016B-P4	12/12/03	12:10	G	GW03-016B-P4	WG	—	1	1	1	1						N	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/12/03	14:00	[signature] STL	12-12-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 502.00

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. MOELLER, M. NEMENTZ / J. Grady, R. Pekarski

DELIVERY SERVICE: Lab Courier AIRBILL NO.: NA

LAB STL BUFFALO

COOLER 1,2,3 of 5

PAGE 1 of 2

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2,3,7,8-TCDD); Metals/Total Hg; TDS/TSS/Cl⁻/SO₄⁻

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA Unpreserved; 40 mL VOA HCl; 1 L Amber Glass; 1 L Amber Glass; 1 L Amber Glass; 1 L Amber Glass; 16 oz HDPE HNO3; 16 oz HDPE Unpreserved

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA Unpreserved	40 mL VOA HCl	1 L Amber Glass	1 L Amber Glass	1 L Amber Glass	1 L Amber Glass	16 oz HDPE HNO3	16 oz HDPE Unpreserved	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017A-P2	12/12/03	1200	G	GW03-017A-P2	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-017A-P2	12/12/03	1200	grab	GW03-017A-P2MS	WG	18	3	2	2	2	1	2	1	1	MATRIX SPIKE	MS1	—	—	—
GW03-017A-P2	12/12/03	1200	grab	GW03-017A-P2MSD	WG	18	3	2	2	2	1	2	1	1	MATRIX SPIKE DUPLICATE	SD1	—	—	—
FIELD QC	12/12/03	—	grab	TB1-121203	WQ	2	2								TRIP BLANK	TB1	—	—	—
GW03-002A-P2	12/12/03	0830	grab	GW03-002A-P2	WG	8	3	2					1		PARTIAL VOLUME ONLY	N1	—	—	—
FIELD QC	12/12/03	—	grab	TB2-121203	WQ	1	1								TRIP BLANK	TB2	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-12-03	14:00	[signature] STL	12-12-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: ANY QUESTIONS CONTACT JIM LEHNEN AT 1-800-850-9230 Sez. 8°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

310/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. MOELLER, M. NEMETH / J. Grady, R. PeKarski

DELIVERY SERVICE: Lab Courier AIRBILL NO.: NA

LAB STL BUFFALO

COOLER 1, 2, 3 of 5

PAGE 2 of 2

TESTS: ALKALINITY (CARB & BICARB); TOTAL HARDNESS; TOTAL COLIFORM; E. COLI; HETEROTROPHIC PLATE COUNT

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE UNPRESERVED; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 4 oz HDPE Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE UNPRESERVED	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	4 oz HDPE Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
																N1	0	0	0
GW03-017A-P2	12/12/03	12:00	G	GW03-017A-P2	WG	—	1	1	1	1									
GW03-017A-P2	12/12/03	12:00	grab	GW03-017A-P2 MS	WG	—	1	1	1	1					MATRIX SPIKE	MS1	—	—	—
GW03-017A-P2	12/12/03	12:00	grab	GW03-017A-P2 MSD	WG	—	1	1	1	1					MATRIX SPIKE DUPLICATE	SD1	—	—	—
GW03-002A-P2	12/12/03	0830	grab	GW03-002A-P2	WG	—			1	1					Partial volume only	N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-12-03	14:00	[signature] STL	12-12-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 5@2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

311/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

LAB STL - BUFFALO

COOLER 1+2 of 5

PAGE 1 of 2

SAMPLERS (PRINT/SIGNATURE) DAN TOBIN / [signature] TOM URBAN / [signature]

DELIVERY SERVICE: Lab Courier AIRBILL NO.: N/A

TESTS: TCL VOC; TOC; TCL SVOC; TCL Pesticides; TCL PCB's; DIOXIN (2,3,7,8-TCDD); METALS / TOTAL Hg; TDS/TSS/Cl⁻/SO4⁻

BOTTLE TYPE AND PRESERVATIVE: 40 ml VIAL GLASS 4°C; 40 ml VIAL HCL; 1 L AMBER 4°C; 1 L AMBER 4°C; 1 L AMBER 4°C; 1 L AMBER 4°C; 16 oz POLY HNO3; 16 oz POLY 4°C

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 ml VIAL GLASS 4°C	40 ml VIAL HCL	1 L AMBER 4°C	1 L AMBER 4°C	1 L AMBER 4°C	1 L AMBER 4°C	16 oz POLY HNO3	16 oz POLY 4°C	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016C-P7	12/15/03	0945	G	GW03-016C-P7	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-016C-P7	12/15/03	0945	G	GW03-016C-P7-MS	WG	18	3	2	2	2	1	2	1	1		MS1	–	–	–
GW03-016C-P7	12/15/03	0945	G	GW03-016C-P7-MSD	WG	18	3	2	2	2	1	2	1	1		SD1	–	–	–
FIELD QC	—	—	—	TB-2-12/15/03	WQ	2	2									TB1	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/15/03	14:00	[signature] STL	12-15-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
* If any questions, contact Jim Lehnen at 1800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

5@2.0°C

316/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.000006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAN TOBIN / TOM URBAN / Tom Urban

DELIVERY SERVICE: Lab courier AIRBILL NO.: N/A

LAB STL - BUFFALO

COOLER 1/2 of 5

PAGE 2 of 2

TESTS: Alkalinity (Carb + Bicarb); Total Hardness; Total Coliform; E. Coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz Poly 4oC; 4oz Poly HNO3; 4oz Poly Na2S2O3; 4oz Poly Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8oz Poly 4oC	4oz Poly HNO3	4oz Poly Na2S2O3	4oz Poly Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016C-P7	12/15/03	0945	G	GW03-016C-P7	WG	—	1	1	1	1						N1	—	—	—
GW03-016C-P7	12/15/03	0945	G	GW03-016C-P7-MS	WG	—	1	1	1	1						MS1	—	—	—
GW03-016C-P7	12/15/03	0945	G	GW03-016C-P7-MSD	WG	—	1	1	1	1						SD1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/15/03	14:00	[signature] STL	12-15-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/ColCR/GCM

5 @ 2.0°

315/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.000006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller / Matt Holquist, Kyle Jackson

LAB STL - Buffalo

COOLER 3,4,5 of 5

PAGE 1 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs 4oz. vial - unpres.	TOC 4oz. vial - HCl	TCL SVOCs 1 L. amber glass - unpres.	TCL Pesticides 1 L. amber glass - unpres.	TCL PCBs 1 L. amber glass - unpres.	Dioxins (2,3,7,8-TCDD) 1 L. amber glass - unpres.	Metals/ Total Hg 16 oz. HDPE - HNO3	TDS/TSS/ Cl⁻/SO4 16 oz. HDPE - unpres.	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-017C-P8	12-15-03	1030	grab	GW03-017C-P8	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	12-15-03	→	grab	TB1-121503	WQ	1	1								TRIP BLANK	TB1	—	—	—
FIELD QC	12-15-03	1230	grab	EB1-121503	WQ	~~18~~ 19	3 (5 M)	2	2	2	1	2	1	1	EQUIPMENT RINSE BLANK - PERISTALTIC PUMP TUBING	EB1	—	—	—
GW03-012C-P7	12-15-03	1230	grab	GW03-012C-P7	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	12-15-03	—	grab	TB03-121503	WQ	1	1								TRIP BLANK	TB3	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature] 12-15-03		14:00	[signature] STL	12-15-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

5C 2-0°C

314/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) Steven Moeller

LAB STL - Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: ____

TESTS: Alkalinity (Carb.+Bi Carb.) | Total Hardness | Total Coliform | E. Coli | Heterotrophic Plate Count | Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE - Unpres. | 4oz. HDPE - HNO3 | 4oz. HDPE - w/Na2S2O3 | 4oz. HDPE - w/Na2S2O3 | 8oz. glass unpres.

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz. HDPE - Unpres.	4oz. HDPE - HNO3	4oz. HDPE - w/Na2S2O3	4oz. HDPE - w/Na2S2O3	8oz. glass unpres.				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
GW03-017C-P8	12-15-03	1030	grab	GW03-017C-P8	WG	—	1	1	1	1						N1	—	—	—
FIELD QC	12-15-03	1230	grab	EB1-121503	WG	—	1	1	1	1	1				EQUIPMENT RINSE BLANK - PERISTALTIC PUMP TUBING	EB1	—	—	—
GW03-012C-P7	12-15-03	1230	grab	GW03-012C-P7	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-15-03	14:00	[signature] STL	12-15-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: * Hold Methyl Hg sample

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

5@2.0°C

317/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson / S Moeller / T. Burmeier

LAB STL-Buffalo

COOLER 2, 3 of 3

PAGE 1 of 2

DELIVERY SERVICE: — AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/HCL)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals / Total Hg (16 oz HDPE w/HNO3)	TDS/TSS/Cl⁻/SO4⁻ (16 oz. HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014A-P1	12/15/03	14:35	GRAB	GW03-014A-P1	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
TB4-121503	12/15/03	—	–	TB4-121503	WQ	1	1									TB4	–	–	–
Field QC	12/15/03	15:45	GRAB	EB2-121503	WQ	19	3	2	2	2	1	2	1	1	EQUIP. RINSE BLANK BAILER	EB2	–	–	–
Field QC		—	grab	TB5-121503	WQ	1	1									TB5	–	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew Holquist	12/15/03	1124	[illegible]	12/15/03	17:26
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: IF any questions, contact Jim Lehnen at (800) 850-9230. 382.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CoICR/GCM

318/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson / S. Moeller / T. Burmeier

DELIVERY SERVICE: — AIRBILL NO.: —

LAB SHL - Buffalo

COOLER 2, 3 of 3

PAGE 2 of 2

TESTS: Alkalinity (Carb + Bicarb); Total Hardness; Total Calcium/Iron; Heterotrophic; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE; 4 oz. HDPE w/ HNO_3; 4 oz. w/ $Na_2S_2O_3$; 4 oz. w/ $Na_2S_2O_3$; 12 oz. glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz. HDPE	4 oz. HDPE w/ HNO_3	4 oz. w/ $Na_2S_2O_3$	4 oz. w/ $Na_2S_2O_3$	12 oz. glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014A-P1	12/15/03	1435	GRAB	GW03-014A-P1	WG	—	1	1	1	1									
Field QC	12/15/03	1545	GRAB	EB2-121503	WQ	—	1	1	1	1	1								

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew E. Holquist	12/15/03	17:25	[illegible]	12/15/03	17:26
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Hold Methyl Hg.

382.0

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

319/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAN TOBIN / [signature] URS TOM URBAN / [signature]

DELIVERY SERVICE: courier to lab AIRBILL NO.: N/A

LAB STL - BUFFALO

COOLER 4 of 3

PAGE 1 of 2

TESTS: TCL VOC's; TOC; TCL SVOC's; TCL Pesticides; TCL PCB's; DIOXIN (2,3,7,8-TCDD); METALS; Total Hg; TDS/TSS/Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VIAL 4°C; 40 mL VIAL HCl; 1L Amber 4°C; 1L Amber 4°C; 1L Amber 4°C; 1L Amber 4°C; 16 oz REF HNO3; 16 oz REF 4°C

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VIAL 4°C	40 mL VIAL HCl	1L Amber 4°C	1L Amber 4°C	1L Amber 4°C	1L Amber 4°C	16 oz REF HNO3	16 oz REF 4°C	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-0168-PG	12/15/03	1540	G	GW03-0168-PG	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
FIELD QC	—	—	-	TB6-12/15/03	WQ	1	1									TB6	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/15/03	1725	[signature]	12/15/03	17:26
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

3@2.0°C

URSF-075C/1 OF 1/CofCR/GCM

320/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00000

SITE NAME NYPA GW INVESTIGATION

LAB STL-BUFFALO

COOLER 1 of 3

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE) DAN TOBIN / [signature] TOM URBAN / [signature]

DELIVERY SERVICE: URS Courier to lab AIRBILL NO.: N/A

TESTS: Alkalinity (Carbonate Bicarbonate), Total Hardness, Total Coliform/E. Coli, Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz Poly 4°C; 4oz Poly HNO3; 4oz Poly Na2S2O3; 4oz Poly Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz Poly 4°C	4oz Poly HNO3	4oz Poly Na2S2O3	4oz Poly Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (EPIMS)
GW03-0168-P6	12/15/03	1540	G	GW03-0168-P6	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/15/03	17:25	[signature]	12/15/03	17:26
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

382.0°C

URSF-075C/1 OF 1/CofCR/GCR

321/3637

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAN TOBIN / [signature] TOM URBAN / [signature]

DELIVERY SERVICE: Lab Courier AIRBILL NO.: N/A

LAB STL-BUFFALO

COOLER 1, 2, +3 of ~~3~~ 6 (S.M.)

PAGE 1 of 2

TESTS: TCL VOC's; TOC; TCL SVOC's; TCL PEST.; TCL PCB's; DIOXIN (2,3,7,8-TCDD); METALS (Total Hg); TDS/TSS/Cl⁻/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VIAL 4°C; 40 mL VIAL HCl; 1 L Amber 4°C; 1 L Amber 4°C; 1 L Amber 4°C; 1 L Amber 4°C; 16 OZ POLY HNO3; 16 OZ POLY 4°C

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VIAL 4°C	40 mL VIAL HCl	1 L Amber 4°C	1 L Amber 4°C	1 L Amber 4°C	1 L Amber 4°C	16 OZ POLY HNO3	16 OZ POLY 4°C	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016A-P2	12/16/03	1140	G	GW03-016A-P2	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-016A-P2	12/16/03	1140	G	GW03-016A-P2-MS	WG	18	3	2	2	2	1	2	1	1		MS1	–	–	–
GW03-016A-P2	12/16/03	1140	G	GW03-016A-P2-MSD	WG	18	3	2	2	2	1	2	1	1		SD1	–	–	–
—	—	—	–	TB3-12/16/03	WQ	3	3									TB3	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/16/03	14:00	[signature] STL	12-16-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

6e2.0°c

429/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAN TOBIN / [signature] TOM URBAN / Tom Urban

DELIVERY SERVICE: Lab Courier AIRBILL NO.: N/A

LAB STL-BUFFALO

COOLER 1,2,+3 of 3 6 (5.4)

PAGE 2 of 2

TESTS: Alkalinity (Carbonate, Bicarb); Total Hardness; Total Coliform/E.Coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz. Poly 4°C; 4 oz. Poly HNO3; 4 oz. Poly Na2S2O3; 4 oz. Poly Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz. Poly 4°C	4 oz. Poly HNO3	4 oz. Poly Na2S2O3	4 oz. Poly Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016A-P2	12/16/03	1140	G	GW03-016A-P2	WG	—	1	1	1	1						N1	—	—	—
GW03-016A-P2	12/16/03	1140	G	GW03-016A-P2-MS	WG	—	1	1	1	1						MS1	—	—	—
GW03-016A-P2	12/16/03	1140	G	GW03-016A-P2-MSD	WG	—	1	1	1	1						SD1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/16/03	14:00	[signature] STL	12-16-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

6@2.0°C

430/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson

LAB STL - Buffalo

COOLER 6 of 6

PAGE 1 of 2

DELIVERY SERVICE: Carrier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals / Total Hg (16 oz HDPE w/HNO3)	TDS/TSS/Cl⁻/SO4⁻ (16 oz. HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012B-P5	12/16/03	0845	Grab	GW03-012-P5	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
TB2-121603	12/16/03	—	GRAB	TB2-121603	WQ	1	1									TB2	–	–	–

MATRIX CODES					
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC
	LH - HAZARDOUS LIQUID WASTE				
	LF - FLOATING/FREE PRODUCT ON GW TABLE				

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew E. [illegible]	12/16/03		[illegible] STL	12-16-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

If any questions, contact Jim Lehnen at (800) 850-9230.

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

6 @ 2.0°C

431/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson

LAB STL-Buffalo

COOLER 6 of 6

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS: Alkalinity (Carb Bicarb), Total Hardness, Total Coliform/ecoli, Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz. HDPE w/ HNO_3; 4 oz HDPE w/ $Na_2S_2O_3$; 4 oz HDPE w/ $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz. HDPE w/ HNO_3	4 oz HDPE w/ $Na_2S_2O_3$	4 oz HDPE w/ $Na_2S_2O_3$				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012B-P5	12/16/03	0845	Grab	GW03-012B-P5	WG	—	1	1	1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Martha E. Holquist	12/16/03		STL	12-16-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 6@2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

432/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Grady / R Pakarski

LAB STL - Buffalo

COOLER 4 of 6

PAGE 1 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40-ml VOA)	TOC (4-ml VOA w/HCL)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxins (2,3,7,8-TCDD) (1L Amber)	Inorganics/ Total HG (16 oz HDPE w/HNO3)	TDS/TSS/ Cl-/SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-009A-83	12/16/03	1010	Grab	GW03-009A-83	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-012B-86	12/16/03	1205	Grab	GW03-012B-86	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
TB1 121603	12/16/03	—	—	TB1 — 121603	WQ	1	1									TB1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
J Grady	12/16/03	14:00	STL	12-16-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Problems/Questions Contact Jim Zehner @ URS 836-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

6 @ 2.0°C

433/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Geary / R. Pekurski

LAB S&L - Buffalo

COOLER 4 & 5 of 6

PAGE 2 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

TESTS: Alkalinity (Carb & Bicarb); Total Hardness; Total Chlorides; Ecoli; Heterotrophic (Plate Count); Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE w/ HNO_3; 4 oz HDPE w/ $Na_2S_2O_3$; 4 oz HDPE w/ $NaHSO_4$; 12 oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz HDPE	4 oz HDPE w/ HNO_3	4 oz HDPE w/ $Na_2S_2O_3$	4 oz HDPE w/ $NaHSO_4$	12 oz Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-009A-P3	12/16/03	1010	Grab	GW03-009A-P3	WG	~~19~~	1	1	1	1	1					N1	–	–	–
GW03-012B-P6	12/16/03	1205	Grab	GW03-012B-P6	WG	~~18~~	1	1	1	1	–					N1	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
J Geary	12/16/03	14:00	STL	12-16-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Hold methyl Hg

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

6@2.0ℓ

434/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: —

LAB STL Buffalo

COOLER 1 of 1

PAGE 1 of 2

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxin (2378-TCDD); Metals / Total Hg; TDS/TSS/Cl/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA w/HCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 16 oz HDPE w/HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 mL VOA	40 mL VOA w/HCl	1L Amber	1L Amber	1L Amber	1L Amber	16 oz HDPE w/HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-012A-P2	12/16/03	1500	GRAB	GW03-012A-P2	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QUAL	12/16/03	—	GRAB	TB4-121603	WQ	1	1								TRIP BLANK	TB4	—	—	—

MATRIX CODES					
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew E. Holquist	12/16/03	17:05			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			Jan Sy SR Burn	12/16/03	17:05

SPECIAL INSTRUCTIONS: If any questions, contact Jim Lehnen at (800) 850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

2.0°C

URSF-075C/1 OF 1/CofCR/GCM

435/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson

DELIVERY SERVICE: URS delivered — to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 1

PAGE 2 of 2

TESTS: Alk (Carbon Bicarb) / Tot. Hard. / Tot. / Col. / Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE / 4 oz. HDPE w/ HNO3 / 40z HDPE w/ NaOH / 40z HDPE w/ NaS2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz HDPE	4 oz. HDPE w/ HNO3	40z HDPE w/ NaOH	40z HDPE w/ NaS2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012A-P2	12/16/03	1500	Grab	GW03-012A-P2	WG	—	1	1	1	1						N1	—	-	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Matthew S. Holquist	12/16/03	17:05			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[illegible]	12/16/03	17:05

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

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URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) A. Brayman / M. Holquist / S. Moeller / ~~M. Nemeth~~ / K. Jackson

LAB STL - Buffalo

COOLER 2 of 2

PAGE 1 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TESTS: TCL VOCs	TOC	TCL SVOCs	TCL Pesticides	TCL PCBs	Dioxin (2,3,7,8-TCDD)	Metals/ Total Hg	TDS/TSS/ Cl-/SO4	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							BOTTLE TYPE AND PRESERVATIVE: 40 ml. glass vial-unpres.	40 ml. glass vial-HCl	1 L. amber glass-unpres.	1 L. amber glass-unpres.	1 L. amber glass-unpres.	1 L. amber glass-unpres.	16 oz. HDPE w/HNO3	16 oz. HDPE unpres.					
GW03-017A-P1	12-17-03	1015	grab	GW03-017A-P1	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	12-17-03	—	grab	TB1-121703	WQ	1	1								TRIP BLANK	TB1	—	—	—
GW03-012B-P4	12-17-03	1130	grab	GW03-012B-P4	WG	7	3	2							partial volume	N1	—	—	—
FIELD QC	12-17-03	—	grab	TB3-121703	WQ	1	1								TRIP BLANK	TB3	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
A. M. [signature]	12-17-03	14:00	[signature] STL	12-17-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] STL	12/17/03	1410

SPECIAL INSTRUCTIONS: * If any questions, contact Jim Lehner at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) A. Brayman / M. Holquist / S. Moeller / ~~AA. Nemeth~~ / K. Jackson

LAB STL- Buffalo

COOLER 2 of 2

PAGE 2 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.:

TESTS: Alkalinity (Carb.+Bicarb.); Total Hardness; Total Coliform/E. Coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz. HDPE-unpres.; 4oz. HDPE-w/HNO3; 4oz. HDPE-w/Na2S2O3; 4oz. HDPE-w/Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz. HDPE-unpres.	4oz. HDPE-w/HNO3	4oz. HDPE-w/Na2S2O3	4oz. HDPE-w/Na2S2O3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017A-P1	12-17-03	1015	grab	GW03-017A-P1	WG	—	1	1	1	1		N1	—	—	—
GW03-012B-P4	12-17-03	1130	grab	GW03-012B-P4		—	1	1			partial volume	N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-17-03	14:00	[signature] STL	12-17-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	12/17/03	14:20

SPECIAL INSTRUCTIONS: L. 2.0°

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA G.W. Investigation

SAMPLERS (PRINT/SIGNATURE) Tom Urban/Tom Urban Dan Tobin/[signature]

LAB STL - Buffalo

COOLER 1 of 2

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: –

TESTS: Alkalinity (carbonate/bicarb); Total Hardness; Total Coliform/E.coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE w/HNO_3; 4oz HDPE w/$Na_2S_2O_3$; 4oz HDPE w/$Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE w/HNO_3	4oz HDPE w/$Na_2S_2O_3$	4oz HDPE w/$Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016B-P5	12/17/03	1050	G	GW03-016B-P5	WG	–	1	1	1	1						N1	–	–	–

MATRIX CODES					
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tom Urban	12/17/03	1400	[signature] STL	12-17-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] SR	12/17/03	1430

SPECIAL INSTRUCTIONS

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CHAIN OF CUSTODY RECORD

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PROJECT NO. 11171932.00006

SITE NAME NYPA G.W. Investigation

SAMPLERS (PRINT/SIGNATURE) Tom Urban/Tom Urban Dan Tobin/

LAB STL - Buffalo

COOLER 1 of 2

PAGE 1 of 2

DELIVERY SERVICE: Lab Courier AIRBILL NO.: —

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/ HCl)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	metals/ Total Hg (16oz HDPE w/ HNO_3)	TDS/TSS/ Cl^-/SO_4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016B-P5	12/17/03	1050	G	GW03-016B-P5	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
Field QC	—	—	—	TB2-12/17/03	WQ	1	1								Trip Blank	TB1	-	-	-

MATRIX CODES	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tom Urban	12/17/03	14:00	STL	12-17-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			STL	12/17/03	1430

SPECIAL INSTRUCTIONS

Ice 2.0°C

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAN TOBIN / [signature] TOM URBAN / [signature]

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: N/A

LAB STL BUFFALO

COOLER 1 of 1

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 mL Vial 4°C (TCL VOC's)	40 mL Vial HCl (TOC)	1L Amber 4°C (TCL SVOC's)	1L Amber 4°C (TCL PEST.)	1L Amber 4°C (TCL PCB's)	1L Amber 4°C (DIOXIN 2,3,7,8-TCDD)	16 oz Poly HNO3 (METALS / TOTAL Hg)	16 oz Poly 4°C (TDS/TSS/Cl-/SO4)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-016C-PB	12/17/03	1430	G	GW03-016C-PB	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
FIELD QC	—	—	—	TBA-12/17/03	WQ	1	1									TB4	-	—	—

MATRIX CODES	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/17/03	1650	[signature]	12/17/03	1650
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

*If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) DAN TOBIN / [signature] TOM URBAN / Tom Urban

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: N/A

LAB STL - BUFFALO

COOLER 1 of 1

PAGE 2 of 2

TESTS: Alkalinity (Carbonate Bicarb) | Total Hardness | Total Coliform E. Coli | Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz. Poly 4°C | 4 oz. Poly HNO3 | 4 oz. Poly Na2S2O3 | 4 oz. Poly Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz. Poly 4°C	4 oz. Poly HNO3	4 oz. Poly Na2S2O3	4 oz. Poly Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-016C-P8	12/17/03	1430	G	GW03-016C-P8	WG	—	1	1	1	1						N1	-	-	-

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/17/03	1650	[signature] Buffalo	12/17/03	1650
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) JGady / [illegible]

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: —

LAB STL-Buffalo

COOLER 1 of 1

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA w/HCl)	TCL SVOCs (1 L Amber)	TCL Pesticides (1 L Amber)	TCL PCBs (1 L Amber)	Dioxin (2,3,7,8-TCDD) (1 L Amber)	Metals Total Hg (16 oz HDPE w/HNO3)	TDS/TSS/Cl-/SO4- (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-0144-P3	12/18/03	1540	Grab	GW03-0144-P3	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
TB4-121803	12/18/03	—	GRAB	TB4-121803	WQ	1	1								TRIP BLANK	TB4	–	–	–

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/18/03	1715	[signature]	12/18/03	1715
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
If any questions, contact Jim Lehnen at (800) 850-9230.
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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

LAB STL - Buffalo

COOLER 1 of 1

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE) Grady [illegible]

DELIVERY SERVICE: URS delivered to lab AIRBILL NO.: —

TESTS: Alkalinity (carb + bicarb); Total Hardness; Total coliform & ecoli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz. HDPE; 4 oz HDPE w/ HNO_3; 4 oz HDPE w/ $Na_2S_2O_3$; 4 oz HDPE w/ $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz. HDPE	4 oz HDPE w/ HNO_3	4 oz HDPE w/ $Na_2S_2O_3$	4 oz HDPE w/ $Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-OMA-P3	12/18/03	1540	GRAB	GW03-OMA-P3	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/18/03	1715	[signature] STL	12/18/03	1715
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 2.0°

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) K Grady/R Pekarski, Randy Pekarski, Jerry Grady, Mr Hogquist/K. Jackson, S. Mozlier/A. Brayman

LAB S+L - Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40ml VOA)	TOC (40ml VOA w/HCL)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals/ Total Hg (16 oz HDPE w/HNO3)	TDS/TSS/ Cl-/SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-47C-P9	12/18/03	0825	Grab	GW03-017C-P9	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
FIELD QC	12-18-03	—	grab	TB1-12-18-03	WQ	1	1								TRIP BLANK	TB1	—	—	—
GW03-017A-P3	12-18-03	0900	grab	GW03-017A-P3	WG	2	2								partial volume	N1	—	—	—
FIELD QC	12-18-03	—	grab	TB2-121803	WQ	1	1								TRIP BLANK	TB2	—	—	—
GW03-014A-P2	12/18/03	0910	grab	GW03-014A-P2	WG	11	3	2					1	1	partial volume	N1	—	—	—
Field QC	12/18/03	—	grab	TB3-121803	WQ	1	1								TRIP BLANK	TB3	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-18-03	14:00	[signature] STL	12-18-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature] SA Buffalo	12/18/03	14:00

SPECIAL INSTRUCTIONS
* If any questions, contact Jim Lehnen at 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

427/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) M. Holquist / K. Jackson / Randy Pekarski / Amy Grady

LAB STL - Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Lab courier AIRBILL NO.: —

TESTS: Alkalinity (Carb + bicarb); Total Hardness; Total Coliform; F.Coli; Heterotrophic plate Count

BOTTLE TYPE AND PRESERVATIVE: 3 oz HDPE; 40 oz HDPE w/HNO3; 4oz HDPE w/Na2S2O3; 1 oz 4oz HDPE w/NaOH

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	3 oz HDPE	40 oz HDPE w/HNO3	4oz HDPE w/Na2S2O3	1 oz 4oz HDPE w/NaOH					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017C-P7	12/18/03	0825	Grab	GW03-017C-P9	WG	—	1	1	1	1						N1	-	-	—
[redacted]																			
GW03-014A-P2	12/18/03	0910	GRAB	GW03-014A-P2	WG	—	1	1	1	1						N1	—	-	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12-18-03	14:00	[signature] STL	12-18-03	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	12/18/4	14:15

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

2.02

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00066

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J. Grady / D. Tobin / T. Urban

LAB STL-Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: ____ AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 ml VOA)	TOC (40 ml VOA w/ HCL)	TCL SVOCs (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (1L Amber)	(2,3,7,8-TCDD) Metals / Total Hg (16oz HDPE w/ HNO3)	TDS / TSS / Cl- / SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012A-P3	12/19/03	0810	Grab	GW03-012A-P3	WG	18	3	2	2	2	1	2	1	1		N	—	—	—
GW03-010A-P3	12/19/03	0840	Grab	GW03-010A-P3	WG		3	2	2	2	1	2	1	1		N	—	—	—
TB1-121903	12/19/03	—	—	TB1-121903	WQ	1	1									—	—	—	—
TB2-121903	12/19/03	—	—	TB2-121903	WQ	1	1												

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	12/19/03	1000	[signature] SR	12/19/03	1000
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
Problems/Questions Contact Jim Lehnen @ URS 856-5636
202-0°-

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

421/4759

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J Gandy/D Tobin/T. Urban

LAB STL - Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: ____ AIRBILL NO.: —

TESTS: Alkalinity (carbonate/bicarb); Total Hardness; Total Coliform; E coli; Heterotrophic Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE w/HNO3; 1/2 oz HDPE w/NaOH & ZnO3; 1/2 oz HDPE w/NaOH & ZnO3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz HDPE	4 oz HDPE w/HNO3	1/2 oz HDPE w/NaOH & ZnO3	1/2 oz HDPE w/NaOH & ZnO3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012A-P3	12/19/03	0810	Grab	GW03-012A-P3	WG	—	1	1	1	1		N1			
GW03-010A-P3	12/19/03	0840	Grab	GW03-010A-P3	WG	—	1	1	1	1		N1			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOUD WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Jerry Gandy	12/19/03	1000	[illegible] SIR	12/19/03	1000
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

202.02

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

422/4759

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ab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001499-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ntrument ID: HP5973N Calibration Dates(s): 12/04/2003 12/04/2003

eated Purge (Y/N): N Calibration Times: 09:03 12:11

C Column: DB-624 ID: 0.25(mm)

Lab File ID: RRF1 = N3706.RR RRF4 = N3705.RR
RRF10 = N3701.RR RRF20 = N3704.RR RRF40 = N3703.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Chloromethane	0.208	0.204	0.174	0.188	0.166	0.1880	9.800
Bromomethane	0.285	0.308	0.244	0.294	0.256	0.2770	9.600
Vinyl chloride	0.216	0.228	0.185	0.207	0.180	0.2030	9.900
Chloroethane	0.263	0.259	0.217	0.233	0.202	0.2350	11.300
Methylene chloride	0.386	0.318	0.275	0.271	0.247	0.2990	18.300
Acetone	0.024	0.020	0.022	0.019	0.017	0.0200	12.300
Carbon Disulfide	1.000	0.940	0.917	0.864	0.814	0.9070	7.800
1,1-Dichloroethene	0.319	0.327	0.289	0.309	0.289	0.3070	5.600
1,1-Dichloroethane	0.600	0.570	0.521	0.538	0.492	0.5440	7.800
cis-1,2-Dichloroethene	0.380	0.359	0.325	0.338	0.311	0.3430	8.100
trans-1,2-Dichloroethene	0.374	0.376	0.336	0.352	0.323	0.3520	6.600
Methyl acetate	0.066	0.053	0.052	0.051	0.048	0.0540	12.700
Cyclohexane	0.445	0.454	0.415	0.411	0.395	0.4240	5.800
Methylcyclohexane	0.524	0.529	0.489	0.480	0.460	0.4960	5.900
Chloroform	0.740	0.644	0.578	0.586	0.548	0.6190	12.200
1,2-Dichloroethane	0.284	0.272	0.251	0.256	0.238	0.2600	6.900
2-Butanone	0.033	0.028	0.027	0.026	0.025	0.0280	11.500
1,1,1-Trichloroethane	0.627	0.605	0.574	0.616	0.583	0.6010	3.700
Carbon Tetrachloride	0.484	0.470	0.454	0.488	0.469	0.4730	2.900
Bromodichloromethane	0.365	0.347	0.338	0.349	0.326	0.3450	4.200
1,2-Dichloropropane	0.289	0.268	0.243	0.248	0.223	0.2540	9.900
cis-1,3-Dichloropropene	0.341	0.348	0.345	0.365	0.343	0.3490	2.800
Trichloroethene	0.394	0.383	0.352	0.370	0.345	0.3690	5.500
Dibromochloromethane	0.219	0.210	0.208	0.224	0.210	0.2140	3.300
1,1,2-Trichloroethane	0.164	0.156	0.145	0.152	0.138	0.1510	6.500
Benzene	1.465	1.402	1.280	1.322	1.211	1.3360	7.500
trans-1,3-Dichloropropene	0.313	0.328	0.326	0.353	0.326	0.3290	4.400
Bromoform	0.195	0.203	0.197	0.216	0.204	0.2030	4.000
4-Methyl-2-pentanone	0.086	0.078	0.075	0.078	0.072	0.0780	6.700
2-Hexanone	0.047	0.047	0.048	0.050	0.046	0.0480	3.400
Tetrachloroethene	0.489	0.492	0.431	0.471	0.433	0.4630	6.400
1,1,2,2-Tetrachloroethane	0.401	0.373	0.336	0.350	0.324	0.3570	8.700
Toluene	1.263	1.185	1.077	1.112	1.004	1.1280	8.800
Chlorobenzene	1.258	1.163	1.025	1.100	0.992	1.1080	9.700
Ethylbenzene	2.231	2.237	2.026	2.194	1.991	2.1360	5.500
Styrene	1.034	1.098	1.014	1.085	0.966	1.0390	5.200
Total Xylenes	0.753	0.785	0.686	0.731	0.648	0.7210	7.500

FORM VI VOA

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ab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001499-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ntrument ID: HP5973N Calibration Dates(s): 12/04/2003 12/04/2003

eated Purge (Y/N): N Calibration Times: 09:03 12:11

C Column: DB-624 ID: 0.25(mm)

Lab File ID: RRF1 = N3706.RR RRF4 = N3705.RR
RRF10 = N3701.RR RRF20 = N3704.RR RRF40 = N3703.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
1,2,4-Trichlorobenzene	1.049	0.977	0.832	0.935	0.854	0.9290	9.600
1,2-Dibromo-3-chloropropane	0.053	0.053	0.046	0.051	0.047	0.0500	6.500
1,2-Dibromoethane	0.164	0.165	0.155	0.164	0.151	0.1600	4.100
1,2-Dichlorobenzene	1.507	1.458	1.257	1.341	1.221	1.3570	9.100
1,3-Dichlorobenzene	2.001	1.887	1.610	1.690	1.500	1.7380	11.800
1,4-Dichlorobenzene	1.880	1.758	1.544	1.640	1.484	1.6610	9.600
1,1,2-Trichloro-1,2,2-trifl	0.292	0.281	0.253	0.246	0.242	0.2630	8.500
Dichlorodifluoromethane	0.408	0.448	0.380	0.417	0.365	0.4040	8.100
Trichlorofluoromethane	0.626	0.663	0.547	0.618	0.545	0.6000	8.700
Methyl tert butyl ether	0.378	0.333	0.318	0.313	0.290	0.3260	10.000
Isopropylbenzene	4.462	4.752	4.248	4.651	4.215	4.4650	5.300
Toluene-D8	1.549	1.500	1.562	1.518	1.409	1.5070	4.000
p-Bromofluorobenzene	0.378	0.361	0.381	0.368	0.344	0.3660	4.100
1,2-Dichloroethane-D4	0.234	0.213	0.223	0.211	0.202	0.2170	5.700

Comments:

FORM VI VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006895-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ab File Id: N3782.RR Calibration Date: 12/06/2003 Time: 09:17

ntrument ID: HP5973N Init. Calib. Date(s): 12/04/2003 12/04/2003

eated Purge (Y/N): N Init. Calib. Times: 09:03 12:11

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.1880	0.2270	0.1000	-20.700	100.00
Bromomethane	0.2770	0.2681	0.0100	3.200	100.00
Vinyl chloride	0.2030	0.2289	0.0100	-12.800	20.00
Chloroethane	0.2350	0.2411	0.0100	-2.600	100.00
Methylene chloride	0.2990	0.3012	0.0100	-0.700	100.00
Acetone	0.0200	0.0222	0.0100	-11.000	100.00
Carbon Disulfide	0.9070	1.1116	0.0100	-22.600	100.00
1,1-Dichloroethene	0.3070	0.3137	0.0100	-2.200	100.00
1,1-Dichloroethane	0.5440	0.5807	0.1000	-6.700	100.00
cis-1,2-Dichloroethene	0.3430	0.3426	0.0100	0.100	100.00
trans-1,2-Dichloroethene	0.3520	0.3617	0.0100	-2.800	100.00
Chloroform	0.6190	0.6669	0.0100	-7.700	20.00
1,2-Dichloroethane	0.2600	0.3072	0.0100	-18.200	100.00
2-Butanone	0.0280	0.0280	0.0100	0.000	100.00
1,1,1-Trichloroethane	0.6010	0.6571	0.0100	-9.300	100.00
Carbon Tetrachloride	0.4730	0.5400	0.0100	-14.200	100.00
Bromodichloromethane	0.3450	0.3787	0.0100	-9.800	100.00
1,2-Dichloropropane	0.2540	0.2632	0.0100	-3.600	20.00
cis-1,3-Dichloropropene	0.3490	0.3491	0.0100	0.000	100.00
Trichloroethene	0.3690	0.3674	0.0100	0.400	100.00
Dibromochloromethane	0.2140	0.2164	0.0100	-1.100	100.00
1,1,2-Trichloroethane	0.1510	0.1517	0.0100	-0.500	100.00
Benzene	1.3360	1.3525	0.0100	-1.200	100.00
trans-1,3-Dichloropropene	0.3290	0.3178	0.0100	3.400	100.00
Bromoform	0.2030	0.1806	0.1000	11.000	100.00
4-Methyl-2-pentanone	0.0780	0.0736	0.0100	5.600	100.00
2-Hexanone	0.0480	0.0455	0.0100	5.200	100.00
Tetrachloroethene	0.4630	0.4492	0.0100	3.000	100.00
1,1,2,2-Tetrachloroethane	0.3570	0.3109	0.3000	12.900	100.00
Toluene	1.1280	1.0571	0.0100	6.300	20.00
Chlorobenzene	1.1080	1.1187	0.3000	-1.000	100.00
Ethylbenzene	2.1360	2.0514	0.0100	4.000	20.00
Styrene	1.0390	1.0639	0.0100	-2.400	100.00
Total Xylenes	0.7210	0.7097	0.0100	1.600	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2630	0.3471	0.0100	-32.000	100.00
1,2,4-Trichlorobenzene	0.9290	0.8297	0.0100	10.700	100.00
1,2-Dibromo-3-chloropropane	0.0500	0.0454	0.0100	9.200	100.00
1,2-Dibromoethane	0.1600	0.1516	0.0100	5.200	100.00
1,2-Dichlorobenzene	1.3570	1.2812	0.0100	5.600	100.00

FORM VII VOA

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003084

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

Lab File ID: N3781 BFB Injection Date: 12/06/2003

Instrument ID: HP5973N BFB Injection Time: 08:04

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	17.8		
75	30.0 - 60.0% of mass 95	51.1		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	8.7		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	68.9		
175	5.0 - 9.0% of mass 174	5.3	(7.7)	1
176	95.0 - 101.0% of mass 174	66.6	(96.7)	1
177	5.0 - 9.0% of mass 176	3.9	(5.9)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006895-1	N3782.RR	12/06/2003	09:17
2	MSB77	A3B70811	N3783.RR	12/06/2003	10:11
3	VBLK77	A3B70810	N3784.RR	12/06/2003	10:42
4	TB-1-12/03/03	A3B70807	N3785.RR	12/06/2003	11:13
5	TB2-120303	A3B70808	N3786.RR	12/06/2003	11:44
6	TB3-120303	A3B70809	N3787.RR	12/06/2003	12:15
7	GW03-010B-P5	A3B70801	N3799.RR	12/06/2003	18:26
8	GW03-008B-P5	A3B70802	N3800.RR	12/06/2003	18:57
9	GW03-008B-P4	A3B70803	N3801.RR	12/06/2003	19:27

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006900-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ab File Id: N3760.RR Calibration Date: 12/05/2003 Time: 16:45

ıtrument ID: HP5973N Init. Calib. Date(s): 12/04/2003 12/04/2003

eated Purge (Y/N): N Init. Calib. Times: 09:03 12:11

: Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.1880	0.2120	0.1000	-12.800	100.00
Bromomethane	0.2770	0.1452	0.0100	47.600	100.00
Vinyl chloride	0.2030	0.2105	0.0100	-3.700	20.00
Chloroethane	0.2350	0.1168	0.0100	50.300	100.00
Methylene chloride	0.2990	0.3086	0.0100	-3.200	100.00
Acetone	0.0200	0.0238	0.0100	-19.000	100.00
Carbon Disulfide	0.9070	0.9065	0.0100	0.100	100.00
1,1-Dichloroethene	0.3070	0.3176	0.0100	-3.400	100.00
1,1-Dichloroethane	0.5440	0.5957	0.1000	-9.500	100.00
cis-1,2-Dichloroethene	0.3430	0.3612	0.0100	-5.300	100.00
trans-1,2-Dichloroethene	0.3520	0.3711	0.0100	-5.400	100.00
Chloroform	0.6190	0.6927	0.0100	-11.900	20.00
1,2-Dichloroethane	0.2600	0.3168	0.0100	-21.800	100.00
2-Butanone	0.0280	0.0307	0.0100	-9.600	100.00
1,1,1-Trichloroethane	0.6010	0.6702	0.0100	-11.500	100.00
Carbon Tetrachloride	0.4730	0.5446	0.0100	-15.100	100.00
Bromodichloromethane	0.3450	0.3920	0.0100	-13.600	100.00
1,2-Dichloropropane	0.2540	0.2745	0.0100	-8.100	20.00
cis-1,3-Dichloropropene	0.3490	0.3668	0.0100	-5.100	100.00
Trichloroethene	0.3690	0.3730	0.0100	-1.100	100.00
Dibromochloromethane	0.2140	0.2228	0.0100	-4.100	100.00
1,1,2-Trichloroethane	0.1510	0.1613	0.0100	-6.800	100.00
Benzene	1.3360	1.3741	0.0100	-2.800	100.00
trans-1,3-Dichloropropene	0.3290	0.3328	0.0100	-1.200	100.00
Bromoform	0.2030	0.1646	0.1000	18.900	100.00
4-Methyl-2-pentanone	0.0780	0.0760	0.0100	2.600	100.00
2-Hexanone	0.0480	0.0498	0.0100	-3.800	100.00
Tetrachloroethene	0.4630	0.4595	0.0100	0.800	100.00
1,1,2,2-Tetrachloroethane	0.3570	0.3073	0.3000	13.900	100.00
Toluene	1.1280	1.0423	0.0100	7.600	20.00
Chlorobenzene	1.1080	1.0982	0.3000	0.900	100.00
Ethylbenzene	2.1360	2.1601	0.0100	-1.100	20.00
Styrene	1.0390	1.1939	0.0100	-14.900	100.00
Total Xylenes	0.7210	0.8021	0.0100	-11.200	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2630	0.2871	0.0100	-9.200	100.00
1,2,4-Trichlorobenzene	0.9290	0.8913	0.0100	4.000	100.00
1,2-Dibromo-3-chloropropane	0.0500	0.0467	0.0100	6.600	100.00
1,2-Dibromoethane	0.1600	0.1653	0.0100	-3.300	100.00
1,2-Dichlorobenzene	1.3570	1.3218	0.0100	2.600	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003089

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

Lab File ID: N3759 BFB Injection Date: 12/05/2003

Instrument ID: HP5973N BFB Injection Time: 15:43

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	18.0
75	30.0 - 60.0% of mass 95	51.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50 - 120 % of mass 95	68.8
175	5.0 - 9.0% of mass 174	5.7 (8.3) 1
176	95.0 - 101.0% of mass 174	68.0 (98.9) 1
177	5.0 - 9.0% of mass 176	4.4 (6.4) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006900-1	N3760.RR	12/05/2003	16:45
2	MSB76	A3B65611	N3761.RR	12/05/2003	17:19
3	VBLK76	A3B65610	N3762.RR	12/05/2003	17:52
4	TB4-120203	A3B65605	N3763.RR	12/05/2003	18:24
5	TB5-120203	A3B65606	N3764.RR	12/05/2003	18:55
6	TB6-120203	A3B65607	N3765.RR	12/05/2003	19:27
7	GW03-010B-P4	A3B65601	N3775.RR	12/06/2003	00:39
8	GW03-011B-P4	A3B65602	N3776.RR	12/06/2003	01:10
9	GW03-011C-P7	A3B65603	N3777.RR	12/06/2003	01:41
10	GW03-006A-P1	A3B65604	N3778.RR	12/06/2003	02:12

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006931-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ab File Id: M6438.RR Calibration Date: 12/06/2003 Time: 10:50

ıtrument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

eated Purge (Y/N): N Init. Calib. Times: 13:22 16:40

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0520	0.0444	0.0100	14.600	100.00
Benzene	1.5310	1.4513	0.0100	5.200	100.00
Bromodichloromethane	0.5420	0.4861	0.0100	10.300	100.00
Bromoform	0.2850	0.2358	0.1000	17.300	100.00
Bromomethane	0.1890	0.1664	0.0100	12.000	100.00
2-Butanone	0.0970	0.0806	0.0100	16.900	100.00
Methyl acetate	0.1730	0.1339	0.0100	22.600	100.00
Cyclohexane	0.7060	0.6501	0.0100	7.900	100.00
Methylcyclohexane	0.5870	0.5636	0.0100	4.000	100.00
Carbon Disulfide	0.9600	0.8572	0.0100	10.700	100.00
Carbon Tetrachloride	0.5160	0.4701	0.0100	8.900	100.00
Chlorobenzene	1.0750	1.1040	0.3000	-2.700	100.00
Chloroethane	0.2600	0.2533	0.0100	2.600	100.00
Chloroform	0.7680	0.6699	0.0100	12.800	20.00
Chloromethane	0.5300	0.5938	0.1000	-12.000	100.00
Dibromochloromethane	0.3020	0.2638	0.0100	12.600	100.00
1,2-Dibromo-3-chloropropane	0.1110	0.0791	0.0100	28.700	100.00
1,2-Dibromoethane	0.2280	0.2089	0.0100	8.400	100.00
1,2-Dichlorobenzene	1.4180	1.2592	0.0100	11.200	100.00
1,3-Dichlorobenzene	1.6290	1.5042	0.0100	7.700	100.00
1,4-Dichlorobenzene	1.6910	1.5650	0.0100	7.400	100.00
Dichlorodifluoromethane	0.3560	0.3003	0.0100	15.600	100.00
1,1-Dichloroethane	0.7390	0.6849	0.1000	7.300	100.00
1,2-Dichloroethane	0.5240	0.4338	0.0100	17.200	100.00
1,1-Dichloroethene	0.2820	0.2820	0.0100	0.000	100.00
cis-1,2-Dichloroethene	0.3790	0.3658	0.0100	3.500	100.00
trans-1,2-Dichloroethene	0.3360	0.3331	0.0100	0.900	100.00
1,2-Dichloropropane	0.4380	0.3995	0.0100	8.800	20.00
cis-1,3-Dichloropropene	0.6080	0.5495	0.0100	9.600	100.00
trans-1,3-Dichloropropene	0.5140	0.4375	0.0100	14.900	100.00
Ethylbenzene	2.0040	1.9607	0.0100	2.200	20.00
2-Hexanone	0.2140	0.1687	0.0100	21.200	100.00
Isopropylbenzene	3.8840	3.6385	0.0100	6.300	100.00
Methylene chloride	0.3280	0.3159	0.0100	3.700	100.00
4-Methyl-2-pentanone	0.2950	0.2381	0.0100	19.300	100.00
Styrene	1.1970	1.2080	0.0100	-0.900	100.00
1,1,2,2-Tetrachloroethane	0.5850	0.5162	0.3000	11.800	100.00
Tetrachloroethene	0.3750	0.3906	0.0100	-4.200	100.00
Toluene	1.0480	1.0360	0.0100	1.100	20.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003115

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

Lab File ID: M6437 BFB Injection Date: 12/06/2003

Instrument ID: I50M BFB Injection Time: 09:37

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	48.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50 - 120 % of mass 95	67.7
175	5.0 - 9.0% of mass 174	5.6 (8.3) 1
176	95.0 - 101.0% of mass 174	64.4 (95.1) 1
177	5.0 - 9.0% of mass 176	4.3 (6.6) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006931-1	M6438.RR	12/06/2003	10:50
2	MSB21	A3B75414	M6439.RR	12/06/2003	11:35
3	VBLK21	A3B75413	M6440.RR	12/06/2003	12:04
4	TB2-120403	A3B75407	M6441.RR	12/06/2003	12:34
5	GW03-005A-P1	A3B75401	M6448.RR	12/06/2003	15:59
6	GW03-005A-P1-MS	A3B75401MS	M6449.RR	12/06/2003	16:28
7	GW03-005A-P1-SD	A3B75401SD	M6450.RR	12/06/2003	16:58
8	GW03-013A-P1	A3B75402	M6451.RR	12/06/2003	17:27
9	GW03-013A-P2	A3B75403	M6452.RR	12/06/2003	17:56
10	GW03-008A-P2	A3B75404	M6453.RR	12/06/2003	18:26
11	GW03-010A-P1	A3B75405	M6454.RR	12/06/2003	18:55
12	GW03-014C-P7	A3B75406	M6455.RR	12/06/2003	19:24

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006897-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ab File Id: N3805.RR Calibration Date: 12/06/2003 Time: 21:35

ntrument ID: HP5973N Init. Calib. Date(s): 12/04/2003 12/04/2003

eated Purge (Y/N): N Init. Calib. Times: 09:03 12:11

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.1880	0.1843	0.1000	2.000	100.00
Bromomethane	0.2770	0.1249	0.0100	54.900	100.00
Vinyl chloride	0.2030	0.2078	0.0100	-2.400	20.00
Chloroethane	0.2350	0.2270	0.0100	3.400	100.00
Methylene chloride	0.2990	0.2868	0.0100	4.100	100.00
Acetone	0.0200	0.0214	0.0100	-7.000	100.00
Carbon Disulfide	0.9070	0.9104	0.0100	-0.400	100.00
1,1-Dichloroethene	0.3070	0.2997	0.0100	2.400	100.00
1,1-Dichloroethane	0.5440	0.5891	0.1000	-8.300	100.00
cis-1,2-Dichloroethene	0.3430	0.3457	0.0100	-0.800	100.00
trans-1,2-Dichloroethene	0.3520	0.3654	0.0100	-3.800	100.00
Chloroform	0.6190	0.6719	0.0100	-8.500	20.00
1,2-Dichloroethane	0.2600	0.2963	0.0100	-14.000	100.00
2-Butanone	0.0280	0.0253	0.0100	9.600	100.00
1,1,1-Trichloroethane	0.6010	0.6753	0.0100	-12.400	100.00
Carbon Tetrachloride	0.4730	0.5596	0.0100	-18.300	100.00
Bromodichloromethane	0.3450	0.3752	0.0100	-8.800	100.00
1,2-Dichloropropane	0.2540	0.2598	0.0100	-2.300	20.00
cis-1,3-Dichloropropene	0.3490	0.3363	0.0100	3.600	100.00
Trichloroethene	0.3690	0.3772	0.0100	-2.200	100.00
Dibromochloromethane	0.2140	0.2295	0.0100	-7.200	100.00
1,1,2-Trichloroethane	0.1510	0.1582	0.0100	-4.800	100.00
Benzene	1.3360	1.3758	0.0100	-3.000	100.00
trans-1,3-Dichloropropene	0.3290	0.3277	0.0100	0.400	100.00
Bromoform	0.2030	0.1959	0.1000	3.500	100.00
4-Methyl-2-pentanone	0.0780	0.0701	0.0100	10.100	100.00
2-Hexanone	0.0480	0.0435	0.0100	9.400	100.00
Tetrachloroethene	0.4630	0.4998	0.0100	-7.900	100.00
1,1,2,2-Tetrachloroethane	0.3570	0.3455	0.3000	3.200	100.00
Toluene	1.1280	1.1343	0.0100	-0.600	20.00
Chlorobenzene	1.1080	1.1330	0.3000	-2.200	100.00
Ethylbenzene	2.1360	2.2324	0.0100	-4.500	20.00
Styrene	1.0390	1.0914	0.0100	-5.000	100.00
Total Xylenes	0.7210	0.7578	0.0100	-5.100	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2630	0.2878	0.0100	-9.400	100.00
1,2,4-Trichlorobenzene	0.9290	0.7752	0.0100	16.600	100.00
1,2-Dibromo-3-chloropropane	0.0500	0.0448	0.0100	10.400	100.00
1,2-Dibromoethane	0.1600	0.1581	0.0100	1.200	100.00
1,2-Dichlorobenzene	1.3570	1.3388	0.0100	1.300	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003086

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

Lab File ID: N3804 BFB Injection Date: 12/06/2003

Instrument ID: HP5973N BFB Injection Time: 21:16

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.7		
75	30.0 - 60.0% of mass 95	50.9		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.9		
173	Less than 2.0% of mass 174	0.4	(0.5)	1
174	50 - 120 % of mass 95	71.9		
175	5.0 - 9.0% of mass 174	4.9	(6.8)	1
176	95.0 - 101.0% of mass 174	69.1	(96.1)	1
177	5.0 - 9.0% of mass 176	4.4	(6.4)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006897-1	N3805.RR	12/06/2003	21:35
2	MSB78	A3B70813	N3807.RR	12/06/2003	22:53
3	VBLK78	A3B70812	N3808.RR	12/06/2003	23:23
4	GW03-008A-P1	A3B70804	N3811.RR	12/07/2003	00:55
5	GW03-010B-P6	A3B70805	N3812.RR	12/07/2003	01:25
6	GW03-011C-P8	A3B70806	N3813.RR	12/07/2003	01:56

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006932-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ab File Id: M6551.RR Calibration Date: 12/09/2003 Time: 20:47

ntrument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

eated Purge (Y/N): N Init. Calib. Times: 13:22 16:40

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0520	0.0472	0.0100	9.200	100.00
Benzene	1.5310	1.4013	0.0100	8.500	100.00
Bromodichloromethane	0.5420	0.4906	0.0100	9.500	100.00
Bromoform	0.2850	0.2382	0.1000	16.400	100.00
Bromomethane	0.1890	0.1192	0.0100	36.900	100.00
2-Butanone	0.0970	0.0896	0.0100	7.600	100.00
Methyl acetate	0.1730	0.1489	0.0100	13.900	100.00
Cyclohexane	0.7060	0.6542	0.0100	7.300	100.00
Methylcyclohexane	0.5870	0.5528	0.0100	5.800	100.00
Carbon Disulfide	0.9600	0.9186	0.0100	4.300	100.00
Carbon Tetrachloride	0.5160	0.4376	0.0100	15.200	100.00
Chlorobenzene	1.0750	1.0100	0.3000	6.000	100.00
Chloroethane	0.2600	0.2549	0.0100	2.000	100.00
Chloroform	0.7680	0.6856	0.0100	10.700	20.00
Chloromethane	0.5300	0.5014	0.1000	5.400	100.00
Dibromochloromethane	0.3020	0.2619	0.0100	13.300	100.00
1,2-Dibromo-3-chloropropane	0.1110	0.0694	0.0100	37.500	100.00
1,2-Dibromoethane	0.2280	0.2042	0.0100	10.400	100.00
1,2-Dichlorobenzene	1.4180	1.2477	0.0100	12.000	100.00
1,3-Dichlorobenzene	1.6290	1.3773	0.0100	15.400	100.00
1,4-Dichlorobenzene	1.6910	1.4431	0.0100	14.600	100.00
Dichlorodifluoromethane	0.3560	0.2930	0.0100	17.700	100.00
1,1-Dichloroethane	0.7390	0.6677	0.1000	9.600	100.00
1,2-Dichloroethane	0.5240	0.4385	0.0100	16.300	100.00
1,1-Dichloroethene	0.2820	0.2646	0.0100	6.200	100.00
cis-1,2-Dichloroethene	0.3790	0.3723	0.0100	1.800	100.00
trans-1,2-Dichloroethene	0.3360	0.3222	0.0100	4.100	100.00
1,2-Dichloropropane	0.4380	0.3861	0.0100	11.800	20.00
cis-1,3-Dichloropropene	0.6080	0.5382	0.0100	11.500	100.00
trans-1,3-Dichloropropene	0.5140	0.4154	0.0100	19.200	100.00
Ethylbenzene	2.0040	1.8195	0.0100	9.200	20.00
2-Hexanone	0.2140	0.1583	0.0100	26.000	100.00
Isopropylbenzene	3.8840	2.9051	0.0100	25.200	100.00
Methylene chloride	0.3280	0.3419	0.0100	-4.200	100.00
4-Methyl-2-pentanone	0.2950	0.2213	0.0100	25.000	100.00
Styrene	1.1970	1.1350	0.0100	5.200	100.00
1,1,2,2-Tetrachloroethane	0.5850	0.4807	0.3000	17.800	100.00
Tetrachloroethene	0.3750	0.3522	0.0100	6.100	100.00
Toluene	1.0480	0.9479	0.0100	9.600	20.00

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006932-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ab File Id: M6551.RR Calibration Date: 12/09/2003 Time: 20:47

ntrument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

eated Purge (Y/N): N Init. Calib. Times: 13:22 16:40

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.0830	0.8004	0.0100	26.100	100.00
1,1,1-Trichloroethane	0.6280	0.5144	0.0100	18.100	100.00
1,1,2-Trichloroethane	0.2180	0.2025	0.0100	7.100	100.00
Trichloroethene	0.4060	0.3583	0.0100	11.700	100.00
Trichlorofluoromethane	0.4470	0.4017	0.0100	10.100	100.00
Vinyl chloride	0.4280	0.3873	0.0100	9.500	20.00
Total Xylenes	0.7280	0.6700	0.0100	8.000	100.00
Methyl tert butyl ether	0.6360	0.4611	0.0100	27.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2580	0.2615	0.0100	-1.400	100.00
==========					
1,2-Dichloroethane-D4	0.3840	0.3559	0.0100	7.300	100.00
Toluene-D8	1.3040	1.3536	0.0100	-3.800	100.00
p-Bromofluorobenzene	0.3640	0.4003	0.0100	-10.000	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003116

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

Lab File ID: M6550 BFB Injection Date: 12/09/2003

Instrument ID: I50M BFB Injection Time: 20:29

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	22.5
75	30.0 - 60.0% of mass 95	47.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.1 (0.2) 1
174	50 - 120 % of mass 95	67.0
175	5.0 - 9.0% of mass 174	5.4 (8.1) 1
176	95.0 - 101.0% of mass 174	64.0 (95.5) 1
177	5.0 - 9.0% of mass 176	3.2 (5.0) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006932-1	M6551.RR	12/09/2003	20:47
2	MSB26	A3B75416	M6552.RR	12/09/2003	21:31
3	VBLK26	A3B75415	M6553.RR	12/09/2003	22:00
4	TB1-120403	A3B75408	M6556.RR	12/09/2003	23:27
5	TB3-120403	A3B75409	M6557.RR	12/09/2003	23:56
6	TB4-120403	A3B75410	M6558.RR	12/10/2003	00:25

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INITIAL CALIBRATION DATA

Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001499-1

Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

rument ID: HP5973N Calibration Dates(s): 12/04/2003 12/04/2003

ted Purge (Y/N): N Calibration Times: 09:03 12:11

Column: DB-624 ID: 0.25(mm)

b File ID: RRF1 = N3706.RR RRF4 = N3705.RR
F10 = N3701.RR RRF20 = N3704.RR RRF40 = N3703.RR

OMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
loromethane	0.208	0.204	0.174	0.188	0.166	0.1880	9.800
omomethane	0.285	0.308	0.244	0.294	0.256	0.2770	9.600
nyl chloride	0.216	0.228	0.185	0.207	0.180	0.2030	9.900
loroethane	0.263	0.259	0.217	0.233	0.202	0.2350	11.300
thylene chloride	0.386	0.318	0.275	0.271	0.247	0.2990	18.300
etone	0.024	0.020	0.022	0.019	0.017	0.0200	12.300
rbon Disulfide	1.000	0.940	0.917	0.864	0.814	0.9070	7.800
1-Dichloroethene	0.319	0.327	0.289	0.309	0.289	0.3070	5.600
1-Dichloroethane	0.600	0.570	0.521	0.538	0.492	0.5440	7.800
s-1,2-Dichloroethene	0.380	0.359	0.325	0.338	0.311	0.3430	8.100
ans-1,2-Dichloroethene	0.374	0.376	0.336	0.352	0.323	0.3520	6.600
thyl acetate	0.066	0.053	0.052	0.051	0.048	0.0540	12.700
clohexane	0.445	0.454	0.415	0.411	0.395	0.4240	5.800
thylcyclohexane	0.524	0.529	0.489	0.480	0.460	0.4960	5.900
loroform	0.740	0.644	0.578	0.586	0.548	0.6190	12.200
2-Dichloroethane	0.284	0.272	0.251	0.256	0.238	0.2600	6.900
Butanone	0.033	0.028	0.027	0.026	0.025	0.0280	11.500
1,1-Trichloroethane	0.627	0.605	0.574	0.616	0.583	0.6010	3.700
rbon Tetrachloride	0.484	0.470	0.454	0.488	0.469	0.4730	2.900
omodichloromethane	0.365	0.347	0.338	0.349	0.326	0.3450	4.200
2-Dichloropropane	0.289	0.268	0.243	0.248	0.223	0.2540	9.900
s-1,3-Dichloropropene	0.341	0.348	0.345	0.365	0.343	0.3490	2.800
ichloroethene	0.394	0.383	0.352	0.370	0.345	0.3690	5.500
bromochloromethane	0.219	0.210	0.208	0.224	0.210	0.2140	3.300
1,2-Trichloroethane	0.164	0.156	0.145	0.152	0.138	0.1510	6.500
nzene	1.465	1.402	1.280	1.322	1.211	1.3360	7.500
ans-1,3-Dichloropropene	0.313	0.328	0.326	0.353	0.326	0.3290	4.400
omoform	0.195	0.203	0.197	0.216	0.204	0.2030	4.000
Methyl-2-pentanone	0.086	0.078	0.075	0.078	0.072	0.0780	6.700
Hexanone	0.047	0.047	0.048	0.050	0.046	0.0480	3.400
trachloroethene	0.489	0.492	0.431	0.471	0.433	0.4630	6.400
1,2,2-Tetrachloroethane	0.401	0.373	0.336	0.350	0.324	0.3570	8.700
luene	1.263	1.185	1.077	1.112	1.004	1.1280	8.800
lorobenzene	1.258	1.163	1.025	1.100	0.992	1.1080	9.700
hylbenzene	2.231	2.237	2.026	2.194	1.991	2.1360	5.500
yrene	1.034	1.098	1.014	1.085	0.966	1.0390	5.200
tal Xylenes	0.753	0.785	0.686	0.731	0.648	0.7210	7.500

FORM VI VOA

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b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006931-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

b File Id: M6438.RR Calibration Date: 12/06/2003 Time: 10:50

trument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

ated Purge (Y/N): N Init. Calib. Times: 13:22 16:40

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0520	0.0444	0.0100	14.600	100.00
Benzene	1.5310	1.4513	0.0100	5.200	100.00
Bromodichloromethane	0.5420	0.4861	0.0100	10.300	100.00
Bromoform	0.2850	0.2358	0.1000	17.300	100.00
Bromomethane	0.1890	0.1664	0.0100	12.000	100.00
2-Butanone	0.0970	0.0806	0.0100	16.900	100.00
Methyl acetate	0.1730	0.1339	0.0100	22.600	100.00
Cyclohexane	0.7060	0.6501	0.0100	7.900	100.00
Methylcyclohexane	0.5870	0.5636	0.0100	4.000	100.00
Carbon Disulfide	0.9600	0.8572	0.0100	10.700	100.00
Carbon Tetrachloride	0.5160	0.4701	0.0100	8.900	100.00
Chlorobenzene	1.0750	1.1040	0.3000	-2.700	100.00
Chloroethane	0.2600	0.2533	0.0100	2.600	100.00
Chloroform	0.7680	0.6699	0.0100	12.800	20.00
Chloromethane	0.5300	0.5938	0.1000	-12.000	100.00
Dibromochloromethane	0.3020	0.2638	0.0100	12.600	100.00
1,2-Dibromo-3-chloropropane	0.1110	0.0791	0.0100	28.700	100.00
1,2-Dibromoethane	0.2280	0.2089	0.0100	8.400	100.00
1,2-Dichlorobenzene	1.4180	1.2592	0.0100	11.200	100.00
1,3-Dichlorobenzene	1.6290	1.5042	0.0100	7.700	100.00
1,4-Dichlorobenzene	1.6910	1.5650	0.0100	7.400	100.00
Dichlorodifluoromethane	0.3560	0.3003	0.0100	15.600	100.00
1,1-Dichloroethane	0.7390	0.6849	0.1000	7.300	100.00
1,2-Dichloroethane	0.5240	0.4338	0.0100	17.200	100.00
1,1-Dichloroethene	0.2820	0.2820	0.0100	0.000	100.00
cis-1,2-Dichloroethene	0.3790	0.3658	0.0100	3.500	100.00
trans-1,2-Dichloroethene	0.3360	0.3331	0.0100	0.900	100.00
1,2-Dichloropropane	0.4380	0.3995	0.0100	8.800	20.00
cis-1,3-Dichloropropene	0.6080	0.5495	0.0100	9.600	100.00
trans-1,3-Dichloropropene	0.5140	0.4375	0.0100	14.900	100.00
Ethylbenzene	2.0040	1.9607	0.0100	2.200	20.00
2-Hexanone	0.2140	0.1687	0.0100	21.200	100.00
Isopropylbenzene	3.8840	3.6385	0.0100	6.300	100.00
Methylene chloride	0.3280	0.3159	0.0100	3.700	100.00
4-Methyl-2-pentanone	0.2950	0.2381	0.0100	19.300	100.00
Styrene	1.1970	1.2080	0.0100	-0.900	100.00
1,1,2,2-Tetrachloroethane	0.5850	0.5162	0.3000	11.800	100.00
Tetrachloroethene	0.3750	0.3906	0.0100	-4.200	100.00
Toluene	1.0480	1.0360	0.0100	1.100	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003115

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

Lab File ID: M6437 BFB Injection Date: 12/06/2003

Instrument ID: I50M BFB Injection Time: 09:37

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.5		
75	30.0 - 60.0% of mass 95	48.1		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.0		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	67.7		
175	5.0 - 9.0% of mass 174	5.6	(8.3)	1
176	95.0 - 101.0% of mass 174	64.4	(95.1)	1
177	5.0 - 9.0% of mass 176	4.3	(6.6)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006931-1	M6438.RR	12/06/2003	10:50
2	MSB21	A3B75908	M6439.RR	12/06/2003	11:35
3	VBLK21	A3B75907	M6440.RR	12/06/2003	12:04
4	TB-6-12/4/03	A3B75905	M6442.RR	12/06/2003	13:03
5	TB5-12/4/03	A3B75906	M6443.RR	12/06/2003	13:32
6	GW03-013B-P5	A3B75901	M6444.RR	12/06/2003	14:02
7	GW03-013B-P4	A3B75902	M6445.RR	12/06/2003	14:31
8	GW03-007A-P1	A3B75903	M6446.RR	12/06/2003	15:00
9	GW03-007B-P4	A3B75904	M6447.RR	12/06/2003	15:30

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Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006995-1

Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

File Id: M6576.RR Calibration Date: 12/10/2003 Time: 09:46

rument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

ted Purge (Y/N): N Init. Calib. Times: 13:22 16:40

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0520	0.0469	0.0100	9.800	100.00
Benzene	1.5310	1.5281	0.0100	0.200	100.00
Bromodichloromethane	0.5420	0.5014	0.0100	7.500	100.00
Bromoform	0.2850	0.2462	0.1000	13.600	100.00
Bromomethane	0.1890	0.1159	0.0100	38.700	100.00
2-Butanone	0.0970	0.0890	0.0100	8.200	100.00
Methyl acetate	0.1730	0.1624	0.0100	6.100	100.00
Cyclohexane	0.7060	0.7504	0.0100	-6.300	100.00
Methylcyclohexane	0.5870	0.6486	0.0100	-10.500	100.00
Carbon Disulfide	0.9600	1.0401	0.0100	-8.300	100.00
Carbon Tetrachloride	0.5160	0.4832	0.0100	6.400	100.00
Chlorobenzene	1.0750	1.1103	0.3000	-3.300	100.00
Chloroethane	0.2600	0.2561	0.0100	1.500	100.00
Chloroform	0.7680	0.7302	0.0100	4.900	20.00
Chloromethane	0.5300	0.4990	0.1000	5.800	100.00
Dibromochloromethane	0.3020	0.2648	0.0100	12.300	100.00
1,2-Dibromo-3-chloropropane	0.1110	0.0709	0.0100	36.100	100.00
1,2-Dibromoethane	0.2280	0.2063	0.0100	9.500	100.00
1,2-Dichlorobenzene	1.4180	1.3472	0.0100	5.000	100.00
1,3-Dichlorobenzene	1.6290	1.5791	0.0100	3.100	100.00
1,4-Dichlorobenzene	1.6910	1.6172	0.0100	4.400	100.00
Dichlorodifluoromethane	0.3560	0.3338	0.0100	6.200	100.00
1,1-Dichloroethane	0.7390	0.7047	0.1000	4.600	100.00
1,2-Dichloroethane	0.5240	0.4603	0.0100	12.200	100.00
1,1-Dichloroethene	0.2820	0.2782	0.0100	1.300	100.00
cis-1,2-Dichloroethene	0.3790	0.3888	0.0100	-2.600	100.00
trans-1,2-Dichloroethene	0.3360	0.3491	0.0100	-3.900	100.00
1,2-Dichloropropane	0.4380	0.4030	0.0100	8.000	20.00
cis-1,3-Dichloropropene	0.6080	0.5737	0.0100	5.600	100.00
trans-1,3-Dichloropropene	0.5140	0.4307	0.0100	16.200	100.00
Ethylbenzene	2.0040	2.0710	0.0100	-3.300	20.00
2-Hexanone	0.2140	0.1574	0.0100	26.400	100.00
Isopropylbenzene	3.8840	3.4786	0.0100	10.400	100.00
Methylene chloride	0.3280	0.3467	0.0100	-5.700	100.00
4-Methyl-2-pentanone	0.2950	0.2180	0.0100	26.100	100.00
Styrene	1.1970	1.2450	0.0100	-4.000	100.00
1,1,2,2-Tetrachloroethane	0.5850	0.5000	0.3000	14.500	100.00
Tetrachloroethene	0.3750	0.3978	0.0100	-6.100	100.00
Toluene	1.0480	1.0592	0.0100	-1.100	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003133

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

Lab File ID: M6575 BFB Injection Date: 12/10/2003

Instrument ID: I50M BFB Injection Time: 09:18

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.4		
75	30.0 - 60.0% of mass 95	50.3		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.4		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	66.6		
175	5.0 - 9.0% of mass 174	5.2	(7.8)	1
176	95.0 - 101.0% of mass 174	64.0	(96.1)	1
177	5.0 - 9.0% of mass 176	4.0	(6.3)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006995-1	M6576.RR	12/10/2003	09:46
2	MSB27	A3B88507	M6577.RR	12/10/2003	10:30
3	VBLK27	A3B88506	M6578.RR	12/10/2003	10:59
4	TB1-120803	A3B88503	M6579.RR	12/10/2003	11:28
5	TB-03-12/8/03	A3B88504	M6580.RR	12/10/2003	11:57
6	GW03-014B-P5	A3B88501	M6585.RR	12/10/2003	14:21
7	GW03-014B-P5MS	A3B88501MS	M6586.RR	12/10/2003	14:50
8	GW03-014B-P5SD	A3B88501SD	M6587.RR	12/10/2003	15:19
9	GW03-009B-P6	A3B88502	M6588.RR	12/10/2003	15:47
10	GW03-013A-P3	A3B88505	M6589.RR	12/10/2003	16:16

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007012-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

ab File Id: M6598.RR Calibration Date: 12/10/2003 Time: 20:50

ıtrument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

eated Purge (Y/N): N Init. Calib. Times: 13:22 16:40

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0520	0.0569	0.0100	-9.400	100.00
Benzene	1.5310	1.5156	0.0100	1.000	100.00
Bromodichloromethane	0.5420	0.5286	0.0100	2.500	100.00
Bromoform	0.2850	0.2539	0.1000	10.900	100.00
Bromomethane	0.1890	0.1173	0.0100	37.900	100.00
2-Butanone	0.0970	0.1021	0.0100	-5.200	100.00
Methyl acetate	0.1730	0.1799	0.0100	-4.000	100.00
Cyclohexane	0.7060	0.7969	0.0100	-12.900	100.00
Methylcyclohexane	0.5870	0.6895	0.0100	-17.500	100.00
Carbon Disulfide	0.9600	1.1405	0.0100	-18.800	100.00
Carbon Tetrachloride	0.5160	0.4957	0.0100	3.900	100.00
Chlorobenzene	1.0750	1.0762	0.3000	-0.100	100.00
Chloroethane	0.2600	0.2565	0.0100	1.300	100.00
Chloroform	0.7680	0.7925	0.0100	-3.200	20.00
Chloromethane	0.5300	0.4928	0.1000	7.000	100.00
Dibromochloromethane	0.3020	0.2982	0.0100	1.200	100.00
1,2-Dibromo-3-chloropropane	0.1110	0.0812	0.0100	26.800	100.00
1,2-Dibromoethane	0.2280	0.2245	0.0100	1.500	100.00
1,2-Dichlorobenzene	1.4180	1.3060	0.0100	7.900	100.00
1,3-Dichlorobenzene	1.6290	1.5055	0.0100	7.600	100.00
1,4-Dichlorobenzene	1.6910	1.5336	0.0100	9.300	100.00
Dichlorodifluoromethane	0.3560	0.3224	0.0100	9.400	100.00
1,1-Dichloroethane	0.7390	0.7332	0.1000	0.800	100.00
1,2-Dichloroethane	0.5240	0.5053	0.0100	3.600	100.00
1,1-Dichloroethene	0.2820	0.2951	0.0100	-4.600	100.00
cis-1,2-Dichloroethene	0.3790	0.4119	0.0100	-8.700	100.00
trans-1,2-Dichloroethene	0.3360	0.3603	0.0100	-7.200	100.00
1,2-Dichloropropane	0.4380	0.4081	0.0100	6.800	20.00
cis-1,3-Dichloropropene	0.6080	0.6017	0.0100	1.000	100.00
trans-1,3-Dichloropropene	0.5140	0.4542	0.0100	11.600	100.00
Ethylbenzene	2.0040	1.9894	0.0100	0.700	20.00
2-Hexanone	0.2140	0.1947	0.0100	9.000	100.00
Isopropylbenzene	3.8840	3.2905	0.0100	15.300	100.00
Methylene chloride	0.3280	0.3614	0.0100	-10.200	100.00
4-Methyl-2-pentanone	0.2950	0.2616	0.0100	11.300	100.00
Styrene	1.1970	1.2186	0.0100	-1.800	100.00
1,1,2,2-Tetrachloroethane	0.5850	0.5244	0.3000	10.400	100.00
Tetrachloroethene	0.3750	0.3885	0.0100	-3.600	100.00
Toluene	1.0480	1.0249	0.0100	2.200	20.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003140

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

Lab File ID: M6597 BFB Injection Date: 12/10/2003

Instrument ID: I50M BFB Injection Time: 20:30

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	21.8
75	30.0 - 60.0% of mass 95	48.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50 - 120 % of mass 95	63.7
175	5.0 - 9.0% of mass 174	5.0 (7.8) 1
176	95.0 - 101.0% of mass 174	60.8 (95.5) 1
177	5.0 - 9.0% of mass 176	3.3 (5.4) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007012-1	M6598.RR	12/10/2003	20:50
2	MSB28	A3B82911	M6599.RR	12/10/2003	21:38
3	VBLK28	A3B82910	M6600.RR	12/10/2003	22:07
4	GW03-009B-P6 DL	A3B88502DL	M6601.RR	12/10/2003	22:36
5	GW03-009A-P1	A3B82901	M6602.RR	12/10/2003	23:05
6	GW03-009B-P4	A3B82903	M6604.RR	12/11/2003	00:03
7	GW03-009B-P5	A3B82904	M6605.RR	12/11/2003	00:32
8	TB1-120503	A3B82907	M6608.RR	12/11/2003	01:58
9	TB2-120503	A3B82908	M6609.RR	12/11/2003	02:27
10	TB3-120503	A3B82909	M6610.RR	12/11/2003	02:56

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Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007023-1

Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

File Id: M6624.RR Calibration Date: 12/11/2003 Time: 10:47

rument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

ted Purge (Y/N): N Init. Calib. Times: 13:22 16:40

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0520	0.0477	0.0100	8.300	100.00
Benzene	1.5310	1.5300	0.0100	0.100	100.00
Bromodichloromethane	0.5420	0.5452	0.0100	-0.600	100.00
Bromoform	0.2850	0.2512	0.1000	11.800	100.00
Bromomethane	0.1890	0.1632	0.0100	13.600	100.00
2-Butanone	0.0970	0.0881	0.0100	9.200	100.00
Methyl acetate	0.1730	0.1554	0.0100	10.200	100.00
Cyclohexane	0.7060	0.7418	0.0100	-5.100	100.00
Methylcyclohexane	0.5870	0.6042	0.0100	-2.900	100.00
Carbon Disulfide	0.9600	1.0224	0.0100	-6.500	100.00
Carbon Tetrachloride	0.5160	0.4899	0.0100	5.000	100.00
Chlorobenzene	1.0750	1.1802	0.3000	-9.800	100.00
Chloroethane	0.2600	0.2479	0.0100	4.600	100.00
Chloroform	0.7680	0.7679	0.0100	0.000	20.00
Chloromethane	0.5300	0.5752	0.1000	-8.500	100.00
Dibromochloromethane	0.3020	0.2946	0.0100	2.400	100.00
1,2-Dibromo-3-chloropropane	0.1110	0.0730	0.0100	34.200	100.00
1,2-Dibromoethane	0.2280	0.2227	0.0100	2.300	100.00
1,2-Dichlorobenzene	1.4180	1.3778	0.0100	2.800	100.00
1,3-Dichlorobenzene	1.6290	1.5606	0.0100	4.200	100.00
1,4-Dichlorobenzene	1.6910	1.6698	0.0100	1.200	100.00
Dichlorodifluoromethane	0.3560	0.2800	0.0100	21.300	100.00
1,1-Dichloroethane	0.7390	0.7103	0.1000	3.900	100.00
1,2-Dichloroethane	0.5240	0.4769	0.0100	9.000	100.00
1,1-Dichloroethene	0.2820	0.2853	0.0100	-1.200	100.00
cis-1,2-Dichloroethene	0.3790	0.4137	0.0100	-9.200	100.00
trans-1,2-Dichloroethene	0.3360	0.3622	0.0100	-7.800	100.00
1,2-Dichloropropane	0.4380	0.4282	0.0100	2.200	20.00
cis-1,3-Dichloropropene	0.6080	0.6009	0.0100	1.200	100.00
trans-1,3-Dichloropropene	0.5140	0.4711	0.0100	8.300	100.00
Ethylbenzene	2.0040	2.0923	0.0100	-4.400	20.00
2-Hexanone	0.2140	0.1646	0.0100	23.100	100.00
Isopropylbenzene	3.8840	3.3715	0.0100	13.200	100.00
Methylene chloride	0.3280	0.3640	0.0100	-11.000	100.00
4-Methyl-2-pentanone	0.2950	0.2259	0.0100	23.400	100.00
Styrene	1.1970	1.3157	0.0100	-9.900	100.00
1,1,2,2-Tetrachloroethane	0.5850	0.5144	0.3000	12.100	100.00
Tetrachloroethene	0.3750	0.4134	0.0100	-10.200	100.00
Toluene	1.0480	1.1292	0.0100	-7.700	20.00

FORM VII VOA

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

ab Name: STL Buffalo Contract: _____ Tune ID: A3T0003151

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

ab File ID: M6623 BFB Injection Date: 12/11/2003

nstrument ID: I50M BFB Injection Time: 09:55

C Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	24.9
75	30.0 - 60.0% of mass 95	51.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50 - 120 % of mass 95	61.8
175	5.0 - 9.0% of mass 174	4.1 (6.7) 1
176	95.0 - 101.0% of mass 174	58.8 (95.2) 1
177	5.0 - 9.0% of mass 176	3.8 (6.4) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007023-1	M6624.RR	12/11/2003	10:47
2	MSB29	A3B82913	M6625.RR	12/11/2003	11:33
3	VBLK29	A3B82912	M6626.RR	12/11/2003	12:02
4	GW03-009A-P2	A3B82902	M6628.RR	12/11/2003	13:00
5	GW03-009B-P4 DL	A3B82903DL	M6629.RR	12/11/2003	13:29
6	GW03-009B-P5 DL	A3B82904DL	M6630.RR	12/11/2003	13:58
7	GW03-013C-P7	A3B82905	M6631.RR	12/11/2003	14:27
8	GW03-014B-P4	A3B82906	M6632.RR	12/11/2003	14:56

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006895-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

ab File Id: N3782.RR Calibration Date: 12/06/2003 Time: 09:17

ntrument ID: HP5973N Init. Calib. Date(s): 12/04/2003 12/04/2003

eated Purge (Y/N): N Init. Calib. Times: 09:03 12:11

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.1880	0.2270	0.1000	-20.700	100.00
Bromomethane	0.2770	0.2681	0.0100	3.200	100.00
Vinyl chloride	0.2030	0.2289	0.0100	-12.800	20.00
Chloroethane	0.2350	0.2411	0.0100	-2.600	100.00
Methylene chloride	0.2990	0.3012	0.0100	-0.700	100.00
Acetone	0.0200	0.0222	0.0100	-11.000	100.00
Carbon Disulfide	0.9070	1.1116	0.0100	-22.600	100.00
1,1-Dichloroethene	0.3070	0.3137	0.0100	-2.200	100.00
1,1-Dichloroethane	0.5440	0.5807	0.1000	-6.700	100.00
cis-1,2-Dichloroethene	0.3430	0.3426	0.0100	0.100	100.00
trans-1,2-Dichloroethene	0.3520	0.3617	0.0100	-2.800	100.00
Chloroform	0.6190	0.6669	0.0100	-7.700	20.00
1,2-Dichloroethane	0.2600	0.3072	0.0100	-18.200	100.00
2-Butanone	0.0280	0.0280	0.0100	0.000	100.00
1,1,1-Trichloroethane	0.6010	0.6571	0.0100	-9.300	100.00
Carbon Tetrachloride	0.4730	0.5400	0.0100	-14.200	100.00
Bromodichloromethane	0.3450	0.3787	0.0100	-9.800	100.00
1,2-Dichloropropane	0.2540	0.2632	0.0100	-3.600	20.00
cis-1,3-Dichloropropene	0.3490	0.3491	0.0100	0.000	100.00
Trichloroethene	0.3690	0.3674	0.0100	0.400	100.00
Dibromochloromethane	0.2140	0.2164	0.0100	-1.100	100.00
1,1,2-Trichloroethane	0.1510	0.1517	0.0100	-0.500	100.00
Benzene	1.3360	1.3525	0.0100	-1.200	100.00
trans-1,3-Dichloropropene	0.3290	0.3178	0.0100	3.400	100.00
Bromoform	0.2030	0.1806	0.1000	11.000	100.00
4-Methyl-2-pentanone	0.0780	0.0736	0.0100	5.600	100.00
2-Hexanone	0.0480	0.0455	0.0100	5.200	100.00
Tetrachloroethene	0.4630	0.4492	0.0100	3.000	100.00
1,1,2,2-Tetrachloroethane	0.3570	0.3109	0.3000	12.900	100.00
Toluene	1.1280	1.0571	0.0100	6.300	20.00
Chlorobenzene	1.1080	1.1187	0.3000	-1.000	100.00
Ethylbenzene	2.1360	2.0514	0.0100	4.000	20.00
Styrene	1.0390	1.0639	0.0100	-2.400	100.00
Total Xylenes	0.7210	0.7097	0.0100	1.600	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2630	0.3471	0.0100	-32.000	100.00
1,2,4-Trichlorobenzene	0.9290	0.8297	0.0100	10.700	100.00
1,2-Dibromo-3-chloropropane	0.0500	0.0454	0.0100	9.200	100.00
1,2-Dibromoethane	0.1600	0.1516	0.0100	5.200	100.00
1,2-Dichlorobenzene	1.3570	1.2812	0.0100	5.600	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003084

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

Lab File ID: N3781 BFB Injection Date: 12/06/2003

Instrument ID: HP5973N BFB Injection Time: 08:04

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	17.8		
75	30.0 - 60.0% of mass 95	51.1		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	8.7		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	68.9		
175	5.0 - 9.0% of mass 174	5.3	(7.7)	1
176	95.0 - 101.0% of mass 174	66.6	(96.7)	1
177	5.0 - 9.0% of mass 176	3.9	(5.9)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006895-1	N3782.RR	12/06/2003	09:17
2	MSB77	A3B71912	N3783.RR	12/06/2003	10:11
3	VBLK77	A3B71911	N3784.RR	12/06/2003	10:42
4	TB-5-12/03/02	A3B71907	N3788.RR	12/06/2003	12:46
5	TB-4-120303	A3B71908	N3789.RR	12/06/2003	13:17
6	TB-6-120303	A3B71909	N3790.RR	12/06/2003	13:48
7	TB-7-120303	A3B71910	N3791.RR	12/06/2003	14:19
8	GW-03-006A-P5	A3B71902	N3794.RR	12/06/2003	15:51
9	GW-03-004A-P2	A3B71903	N3795.RR	12/06/2003	16:22
10	GW-03-004A-P1	A3B71904	N3796.RR	12/06/2003	16:53
11	GW-03-010A-P2	A3B71905	N3797.RR	12/06/2003	17:24
12	GW-03-011A-P3	A3B71906	N3798.RR	12/06/2003	17:55

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Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006897-1

Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

File Id: N3805.RR Calibration Date: 12/06/2003 Time: 21:35

rument ID: HP5973N Init. Calib. Date(s): 12/04/2003 12/04/2003

ted Purge (Y/N): N Init. Calib. Times: 09:03 12:11

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.1880	0.1843	0.1000	2.000	100.00
Bromomethane	0.2770	0.1249	0.0100	54.900	100.00
Vinyl chloride	0.2030	0.2078	0.0100	-2.400	20.00
Chloroethane	0.2350	0.2270	0.0100	3.400	100.00
Methylene chloride	0.2990	0.2868	0.0100	4.100	100.00
Acetone	0.0200	0.0214	0.0100	-7.000	100.00
Carbon Disulfide	0.9070	0.9104	0.0100	-0.400	100.00
1,1-Dichloroethene	0.3070	0.2997	0.0100	2.400	100.00
1,1-Dichloroethane	0.5440	0.5891	0.1000	-8.300	100.00
cis-1,2-Dichloroethene	0.3430	0.3457	0.0100	-0.800	100.00
trans-1,2-Dichloroethene	0.3520	0.3654	0.0100	-3.800	100.00
Chloroform	0.6190	0.6719	0.0100	-8.500	20.00
1,2-Dichloroethane	0.2600	0.2963	0.0100	-14.000	100.00
2-Butanone	0.0280	0.0253	0.0100	9.600	100.00
1,1,1-Trichloroethane	0.6010	0.6753	0.0100	-12.400	100.00
Carbon Tetrachloride	0.4730	0.5596	0.0100	-18.300	100.00
Bromodichloromethane	0.3450	0.3752	0.0100	-8.800	100.00
1,2-Dichloropropane	0.2540	0.2598	0.0100	-2.300	20.00
cis-1,3-Dichloropropene	0.3490	0.3363	0.0100	3.600	100.00
Trichloroethene	0.3690	0.3772	0.0100	-2.200	100.00
Dibromochloromethane	0.2140	0.2295	0.0100	-7.200	100.00
1,1,2-Trichloroethane	0.1510	0.1582	0.0100	-4.800	100.00
Benzene	1.3360	1.3758	0.0100	-3.000	100.00
trans-1,3-Dichloropropene	0.3290	0.3277	0.0100	0.400	100.00
Bromoform	0.2030	0.1959	0.1000	3.500	100.00
4-Methyl-2-pentanone	0.0780	0.0701	0.0100	10.100	100.00
2-Hexanone	0.0480	0.0435	0.0100	9.400	100.00
Tetrachloroethene	0.4630	0.4998	0.0100	-7.900	100.00
1,1,2,2-Tetrachloroethane	0.3570	0.3455	0.3000	3.200	100.00
Toluene	1.1280	1.1343	0.0100	-0.600	20.00
Chlorobenzene	1.1080	1.1330	0.3000	-2.200	100.00
Ethylbenzene	2.1360	2.2324	0.0100	-4.500	20.00
Styrene	1.0390	1.0914	0.0100	-5.000	100.00
Total Xylenes	0.7210	0.7578	0.0100	-5.100	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2630	0.2878	0.0100	-9.400	100.00
1,2,4-Trichlorobenzene	0.9290	0.7752	0.0100	16.600	100.00
1,2-Dibromo-3-chloropropane	0.0500	0.0448	0.0100	10.400	100.00
1,2-Dibromoethane	0.1600	0.1581	0.0100	1.200	100.00
1,2-Dichlorobenzene	1.3570	1.3388	0.0100	1.300	100.00

GW-03-308A-P3

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003086

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

Lab File ID: N3804 BFB Injection Date: 12/06/2003

Instrument ID: HP5973N BFB Injection Time: 21:16

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.7		
75	30.0 - 60.0% of mass 95	50.9		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.9		
173	Less than 2.0% of mass 174	0.4	(0.5)	1
174	50 - 120 % of mass 95	71.9		
175	5.0 - 9.0% of mass 174	4.9	(6.8)	1
176	95.0 - 101.0% of mass 174	69.1	(96.1)	1
177	5.0 - 9.0% of mass 176	4.4	(6.4)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006897-1	N3805.RR	12/06/2003	21:35
2	MSB78	A3B71914	N3807.RR	12/06/2003	22:53
3	VBLK78	A3B71913	N3808.RR	12/06/2003	23:23
4	GW-03-008A-P3	A3B71901	N3810.RR	12/07/2003	00:24

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INITIAL CALIBRATION DATA

ıb Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001536-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ıtrument ID: I50K Calibration Dates(s): 12/10/2003 12/10/2003

ıated Purge (Y/N): N Calibration Times: 09:30 12:22

: Column: DB-624 ID: 0.53(mm)

ıab File ID: RRF1 = K6074.RR RRF4 = K6073.RR
RRF10 = K6072.RR RRF20 = K6071.RR RRF40 = K6070.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
ıcetone	0.031	0.029	0.032	0.032	0.032	0.0310	4.900
ıenzene	1.242	1.101	1.292	1.123	1.236	1.1990	6.900
ıromodichloromethane	0.738	0.650	0.819	0.741	0.774	0.7440	8.400
ıromoform	0.398	0.407	0.502	0.492	0.533	0.4660	13.000
ıromomethane	0.367	0.340	0.454	0.436	0.474	0.4140	13.900
:-Butanone	0.064	0.050	0.057	0.057	0.060	0.0570	9.100
ıethyl acetate	0.134	0.119	0.130	0.136	0.135	0.1310	5.200
:yclohexane	0.819	0.664	0.723	0.671	0.748	0.7250	8.700
ıethylcyclohexane	0.664	0.542	0.623	0.592	0.633	0.6110	7.600
:arbon Disulfide	1.071	0.976	1.122	1.157	1.179	1.1010	7.300
:arbon Tetrachloride	0.691	0.634	0.740	0.661	0.696	0.6840	5.800
:hlorobenzene	1.210	1.104	1.307	1.190	1.194	1.2010	6.000
:hloroethane	0.349	0.279	0.358	0.338	0.374	0.3400	10.700
:hloroform	1.037	0.856	1.030	0.866	0.888	0.9350	9.600
:hloromethane	0.505	0.397	0.520	0.477	0.485	0.4770	10.100
)ibromochloromethane	0.517	0.488	0.630	0.585	0.580	0.5600	10.200
.,2-Dibromo-3-chloropropane	0.088	0.103	0.142	0.127	0.139	0.1200	19.800
.,2-Dibromoethane	0.416	0.381	0.442	0.404	0.407	0.4100	5.300
.,2-Dichlorobenzene	1.502	1.328	1.517	1.454	1.478	1.4560	5.200
.,3-Dichlorobenzene	1.968	1.698	1.919	1.790	2.183	1.9120	9.700
.,4-Dichlorobenzene	2.037	1.709	1.918	1.756	1.945	1.8730	7.300
)ichlorodifluoromethane	0.707	0.590	0.752	0.690	0.744	0.6970	9.300
.,1-Dichloroethane	0.909	0.793	0.971	0.869	0.871	0.8830	7.300
.,2-Dichloroethane	0.452	0.380	0.456	0.398	0.394	0.4160	8.500
.,1-Dichloroethene	0.411	0.374	0.423	0.416	0.435	0.4120	5.600
:is-1,2-Dichloroethene	0.449	0.399	0.485	0.442	0.443	0.4440	6.900
:rans-1,2-Dichloroethene	0.413	0.392	0.465	0.427	0.437	0.4270	6.400
.,2-Dichloropropane	0.505	0.419	0.502	0.475	0.471	0.4740	7.300
:is-1,3-Dichloropropene	0.602	0.556	0.633	0.595	0.611	0.5990	4.700
:rans-1,3-Dichloropropene	0.518	0.471	0.558	0.510	0.527	0.5170	6.100
:thylbenzene	2.178	1.830	2.124	1.983	2.119	2.0470	6.900
:-Hexanone	0.157	0.134	0.149	0.141	0.145	0.1450	6.000
:sopropylbenzene	3.636	3.162	3.540	3.109	3.343	3.3580	6.800
ıethylene chloride	0.511	0.343	0.413	0.355	0.372	0.3990	17.000
:-Methyl-2-pentanone	0.248	0.208	0.228	0.223	0.226	0.2270	6.200
:tyrene	1.093	1.002	1.192	1.112	1.184	1.1170	6.900
.,1,2,2-Tetrachloroethane	0.588	0.542	0.639	0.608	0.653	0.6060	7.200

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.b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007000-1

.b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

.b File Id: K6094.RR Calibration Date: 12/10/2003 Time: 23:32

.trument ID: I50K Init. Calib. Date(s): 12/10/2003 12/10/2003

.ated Purge (Y/N): N Init. Calib. Times: 09:30 12:22

! Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0310	0.0336	0.0100	-8.400	100.00
Benzene	1.1990	1.0926	0.0100	8.900	100.00
Bromodichloromethane	0.7440	0.7240	0.0100	2.700	100.00
Bromoform	0.4660	0.4532	0.1000	2.700	100.00
Bromomethane	0.4140	0.3278	0.0100	20.800	100.00
2-Butanone	0.0570	0.0565	0.0100	0.900	100.00
Methyl acetate	0.1310	0.1369	0.0100	-4.500	100.00
Cyclohexane	0.7250	0.6816	0.0100	6.000	100.00
Methylcyclohexane	0.6110	0.5792	0.0100	5.200	100.00
Carbon Disulfide	1.1010	1.0901	0.0100	1.000	100.00
Carbon Tetrachloride	0.6840	0.6364	0.0100	7.000	100.00
Chlorobenzene	1.2010	1.1200	0.3000	6.700	100.00
Chloroethane	0.3400	0.3598	0.0100	-5.800	100.00
Chloroform	0.9350	0.8513	0.0100	9.000	20.00
Chloromethane	0.4770	0.4414	0.1000	7.500	100.00
Dibromochloromethane	0.5600	0.5580	0.0100	0.400	100.00
1,2-Dibromo-3-chloropropane	0.1200	0.1310	0.0100	-9.200	100.00
1,2-Dibromoethane	0.4100	0.3903	0.0100	4.800	100.00
1,2-Dichlorobenzene	1.4560	1.3958	0.0100	4.100	100.00
1,3-Dichlorobenzene	1.9120	1.7330	0.0100	9.400	100.00
1,4-Dichlorobenzene	1.8730	1.7294	0.0100	7.700	100.00
Dichlorodifluoromethane	0.6970	0.6227	0.0100	10.600	100.00
1,1-Dichloroethane	0.8830	0.8640	0.1000	2.200	100.00
1,2-Dichloroethane	0.4160	0.4152	0.0100	0.200	100.00
1,1-Dichloroethene	0.4120	0.4393	0.0100	-6.600	100.00
cis-1,2-Dichloroethene	0.4440	0.4318	0.0100	2.700	100.00
trans-1,2-Dichloroethene	0.4270	0.4220	0.0100	1.200	100.00
1,2-Dichloropropane	0.4740	0.4514	0.0100	4.800	20.00
cis-1,3-Dichloropropene	0.5990	0.5639	0.0100	5.800	100.00
trans-1,3-Dichloropropene	0.5170	0.5037	0.0100	2.600	100.00
Ethylbenzene	2.0470	1.9420	0.0100	5.100	20.00
2-Hexanone	0.1450	0.1506	0.0100	-3.900	100.00
Isopropylbenzene	3.3580	3.1985	0.0100	4.700	100.00
Methylene chloride	0.3990	0.3740	0.0100	6.300	100.00
4-Methyl-2-pentanone	0.2270	0.2369	0.0100	-4.400	100.00
Styrene	1.1170	1.0603	0.0100	5.100	100.00
1,1,2,2-Tetrachloroethane	0.6060	0.6436	0.3000	-6.200	100.00
Tetrachloroethene	0.8140	0.7669	0.0100	5.800	100.00
Toluene	0.9910	0.9372	0.0100	5.400	20.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003138

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: K6093 BFB Injection Date: 12/10/2003

Instrument ID: I50K BFB Injection Time: 22:39

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.9		
75	30.0 - 60.0% of mass 95	45.4		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.8		
173	Less than 2.0% of mass 174	0.3	(0.6)	1
174	50 - 120 % of mass 95	55.1		
175	5.0 - 9.0% of mass 174	3.5	(6.4)	1
176	95.0 - 101.0% of mass 174	53.1	(96.3)	1
177	5.0 - 9.0% of mass 176	2.8	(5.3)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007000-1	K6094.RR	12/10/2003	23:32
2	MSB11	A3B89709	K6096.RR	12/11/2003	00:48
3	VBLK11	A3B89708	K6098.RR	12/11/2003	01:57
4	TB-5-12/08/03	A3B89705	K6099.RR	12/11/2003	02:31
5	TB-4-12/08/03	A3B89706	K6100.RR	12/11/2003	03:06
6	TB-6-12/08/03	A3B89707	K6101.RR	12/11/2003	03:41
7	GWO3-015A-P1	A3B89701	K6108.RR	12/11/2003	07:42
8	GWO3-015B-P4	A3B89702	K6109.RR	12/11/2003	08:17
9	GWO3-014B-P6	A3B89703	K6110.RR	12/11/2003	08:52
10	GWO3-001A-P1	A3B89704	K6111.RR	12/11/2003	09:27

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CONTINUING CALIBRATION CHECK

ıb Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006995-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ıb File Id: M6576.RR Calibration Date: 12/10/2003 Time: 09:46

ıtrument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

ıated Purge (Y/N): N Init. Calib. Times: 13:22 16:40

: Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0520	0.0469	0.0100	9.800	100.00
Benzene	1.5310	1.5281	0.0100	0.200	100.00
Bromodichloromethane	0.5420	0.5014	0.0100	7.500	100.00
Bromoform	0.2850	0.2462	0.1000	13.600	100.00
Bromomethane	0.1890	0.1159	0.0100	38.700	100.00
2-Butanone	0.0970	0.0890	0.0100	8.200	100.00
Methyl acetate	0.1730	0.1624	0.0100	6.100	100.00
Cyclohexane	0.7060	0.7504	0.0100	-6.300	100.00
Methylcyclohexane	0.5870	0.6486	0.0100	-10.500	100.00
Carbon Disulfide	0.9600	1.0401	0.0100	-8.300	100.00
Carbon Tetrachloride	0.5160	0.4832	0.0100	6.400	100.00
Chlorobenzene	1.0750	1.1103	0.3000	-3.300	100.00
Chloroethane	0.2600	0.2561	0.0100	1.500	100.00
Chloroform	0.7680	0.7302	0.0100	4.900	20.00
Chloromethane	0.5300	0.4990	0.1000	5.800	100.00
Dibromochloromethane	0.3020	0.2648	0.0100	12.300	100.00
1,2-Dibromo-3-chloropropane	0.1110	0.0709	0.0100	36.100	100.00
1,2-Dibromoethane	0.2280	0.2063	0.0100	9.500	100.00
1,2-Dichlorobenzene	1.4180	1.3472	0.0100	5.000	100.00
1,3-Dichlorobenzene	1.6290	1.5791	0.0100	3.100	100.00
1,4-Dichlorobenzene	1.6910	1.6172	0.0100	4.400	100.00
Dichlorodifluoromethane	0.3560	0.3338	0.0100	6.200	100.00
1,1-Dichloroethane	0.7390	0.7047	0.1000	4.600	100.00
1,2-Dichloroethane	0.5240	0.4603	0.0100	12.200	100.00
1,1-Dichloroethene	0.2820	0.2782	0.0100	1.300	100.00
cis-1,2-Dichloroethene	0.3790	0.3888	0.0100	-2.600	100.00
trans-1,2-Dichloroethene	0.3360	0.3491	0.0100	-3.900	100.00
1,2-Dichloropropane	0.4380	0.4030	0.0100	8.000	20.00
cis-1,3-Dichloropropene	0.6080	0.5737	0.0100	5.600	100.00
trans-1,3-Dichloropropene	0.5140	0.4307	0.0100	16.200	100.00
Ethylbenzene	2.0040	2.0710	0.0100	-3.300	20.00
2-Hexanone	0.2140	0.1574	0.0100	26.400	100.00
Isopropylbenzene	3.8840	3.4786	0.0100	10.400	100.00
Methylene chloride	0.3280	0.3467	0.0100	-5.700	100.00
4-Methyl-2-pentanone	0.2950	0.2180	0.0100	26.100	100.00
Styrene	1.1970	1.2450	0.0100	-4.000	100.00
1,1,2,2-Tetrachloroethane	0.5850	0.5000	0.3000	14.500	100.00
Tetrachloroethene	0.3750	0.3978	0.0100	-6.100	100.00
Toluene	1.0480	1.0592	0.0100	-1.100	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003133

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: M6575 BFB Injection Date: 12/10/2003

Instrument ID: I50M BFB Injection Time: 09:18

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.4		
75	30.0 - 60.0% of mass 95	50.3		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.4		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	66.6		
175	5.0 - 9.0% of mass 174	5.2	(7.8)	1
176	95.0 - 101.0% of mass 174	64.0	(96.1)	1
177	5.0 - 9.0% of mass 176	4.0	(6.3)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0006995-1	M6576.RR	12/10/2003	09:46
2	MSB27	A3B88605	M6577.RR	12/10/2003	10:30
3	VBLK27	A3B88604	M6578.RR	12/10/2003	10:59
4	GW03-006B-P2	A3B88601	M6590.RR	12/10/2003	16:45
5	GW03-006B-P4	A3B88602	M6591.RR	12/10/2003	17:14
6	TB2-120803	A3B88603	M6592.RR	12/10/2003	17:43

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b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007047-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

b File Id: M6673.RR Calibration Date: 12/12/2003 Time: 09:54

trument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

ated Purge (Y/N): N Init. Calib. Times: 13:22 16:40

Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0520	0.0462	0.0100	11.200	100.00
Benzene	1.5310	1.4656	0.0100	4.300	100.00
Bromodichloromethane	0.5420	0.5084	0.0100	6.200	100.00
Bromoform	0.2850	0.2476	0.1000	13.100	100.00
Bromomethane	0.1890	0.1303	0.0100	31.000	100.00
2-Butanone	0.0970	0.0848	0.0100	12.600	100.00
Methyl acetate	0.1730	0.1474	0.0100	14.800	100.00
Cyclohexane	0.7060	0.6891	0.0100	2.400	100.00
Methylcyclohexane	0.5870	0.5864	0.0100	0.100	100.00
Carbon Disulfide	0.9600	0.8958	0.0100	6.700	100.00
Carbon Tetrachloride	0.5160	0.4802	0.0100	6.900	100.00
Chlorobenzene	1.0750	1.0963	0.3000	-2.000	100.00
Chloroethane	0.2600	0.2452	0.0100	5.700	100.00
Chloroform	0.7680	0.7221	0.0100	6.000	20.00
Chloromethane	0.5300	0.4707	0.1000	11.200	100.00
Dibromochloromethane	0.3020	0.2798	0.0100	7.400	100.00
1,2-Dibromo-3-chloropropane	0.1110	0.0728	0.0100	34.400	100.00
1,2-Dibromoethane	0.2280	0.2045	0.0100	10.300	100.00
1,2-Dichlorobenzene	1.4180	1.3320	0.0100	6.100	100.00
1,3-Dichlorobenzene	1.6290	1.4974	0.0100	8.100	100.00
1,4-Dichlorobenzene	1.6910	1.5876	0.0100	6.100	100.00
Dichlorodifluoromethane	0.3560	0.3416	0.0100	4.000	100.00
1,1-Dichloroethane	0.7390	0.6874	0.1000	7.000	100.00
1,2-Dichloroethane	0.5240	0.4506	0.0100	14.000	100.00
1,1-Dichloroethene	0.2820	0.2658	0.0100	5.700	100.00
cis-1,2-Dichloroethene	0.3790	0.3849	0.0100	-1.600	100.00
trans-1,2-Dichloroethene	0.3360	0.3364	0.0100	-0.100	100.00
1,2-Dichloropropane	0.4380	0.4049	0.0100	7.600	20.00
cis-1,3-Dichloropropene	0.6080	0.5712	0.0100	6.000	100.00
trans-1,3-Dichloropropene	0.5140	0.4361	0.0100	15.200	100.00
Ethylbenzene	2.0040	1.9666	0.0100	1.900	20.00
2-Hexanone	0.2140	0.1531	0.0100	28.400	100.00
Isopropylbenzene	3.8840	3.3552	0.0100	13.600	100.00
Methylene chloride	0.3280	0.3383	0.0100	-3.100	100.00
4-Methyl-2-pentanone	0.2950	0.2134	0.0100	27.700	100.00
Styrene	1.1970	1.2169	0.0100	-1.700	100.00
1,1,2,2-Tetrachloroethane	0.5850	0.5098	0.3000	12.800	100.00
Tetrachloroethene	0.3750	0.3911	0.0100	-4.300	100.00
Toluene	1.0480	1.0405	0.0100	0.700	20.00

FORM VII VOA

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CONTINUING CALIBRATION CHECK

b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007047-1

o Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

o File Id: M6673.RR Calibration Date: 12/12/2003 Time: 09:54

trument ID: I50M Init. Calib. Date(s): 12/03/2003 12/03/2003

ated Purge (Y/N): N Init. Calib. Times: 13:22 16:40

Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.0830	0.8374	0.0100	22.700	100.00
1,1,1-Trichloroethane	0.6280	0.5506	0.0100	12.300	100.00
1,1,2-Trichloroethane	0.2180	0.2095	0.0100	3.900	100.00
Trichloroethene	0.4060	0.3973	0.0100	2.100	100.00
Trichlorofluoromethane	0.4470	0.3897	0.0100	12.800	100.00
Vinyl chloride	0.4280	0.3654	0.0100	14.600	20.00
Total Xylenes	0.7280	0.7162	0.0100	1.600	100.00
Methyl tert butyl ether	0.6360	0.4620	0.0100	27.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2580	0.2713	0.0100	-5.200	100.00
1,2-Dichloroethane-D4	0.3840	0.3423	0.0100	10.800	100.00
Toluene-D8	1.3040	1.3481	0.0100	-3.400	100.00
p-Bromofluorobenzene	0.3640	0.3883	0.0100	-6.700	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003171

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: M6672 BFB Injection Date: 12/12/2003

Instrument ID: I50M BFB Injection Time: 09:25

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.7		
75	30.0 - 60.0% of mass 95	48.7		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.9		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	67.0		
175	5.0 - 9.0% of mass 174	5.6	(8.4)	1
176	95.0 - 101.0% of mass 174	65.8	(98.2)	1
177	5.0 - 9.0% of mass 176	3.8	(5.7)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007047-1	M6673.RR	12/12/2003	09:54
2	MSB31	A3B93806	M6675.RR	12/12/2003	11:36
3	VBLK31	A3B93805	M6676.RR	12/12/2003	12:05
4	GW03-002A-P1	A3B93801	M6679.RR	12/12/2003	13:31
5	GW03-015A-P3	A3B93802	M6680.RR	12/12/2003	14:00
6	TB1 120903	A3B93803	M6681.RR	12/12/2003	14:29
7	TB2 120903	A3B93804	M6682.RR	12/12/2003	14:58

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ab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001552-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ıtrument ID: HP5973N Calibration Dates(s): 12/16/2003 12/16/2003

eated Purge (Y/N): N Calibration Times: 09:09 11:44

: Column: DB-624 ID: 0.25(mm)

Lab File ID: RRF1 = N3997.RR RRF4 = N3996.RR
RRF10 = N3995.RR RRF20 = N3994.RR RRF40 = N3993.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Chloromethane	0.284	0.234	0.214	0.238	0.256	0.2450	10.600
Bromomethane	0.122	0.103	0.103	0.116	0.122	0.1130	8.700
Vinyl chloride	0.254	0.219	0.205	0.224	0.233	0.2270	8.000
Chloroethane	0.125	0.102	0.098	0.107	0.112	0.1090	9.500
Methylene chloride	0.391	0.257	0.243	0.252	0.239	0.2760	23.300
Acetone	0.028	0.019	0.019	0.021	0.019	0.0210	17.900
Carbon Disulfide	1.401	1.122	1.050	1.135	1.044	1.1500	12.700
1,1-Dichloroethene	0.347	0.309	0.277	0.302	0.291	0.3050	8.600
1,1-Dichloroethane	0.622	0.569	0.537	0.567	0.530	0.5650	6.400
cis-1,2-Dichloroethene	0.351	0.306	0.303	0.315	0.289	0.3130	7.400
trans-1,2-Dichloroethene	0.397	0.337	0.322	0.345	0.327	0.3450	8.700
Methyl acetate	0.072	0.054	0.065	0.068	0.065	0.0650	10.300
Cyclohexane	0.736	0.614	0.576	0.605	0.548	0.6160	11.700
Methylcyclohexane	0.727	0.606	0.571	0.579	0.503	0.5970	13.700
Chloroform	0.661	0.523	0.506	0.528	0.500	0.5430	12.200
1,2-Dichloroethane	0.242	0.216	0.227	0.233	0.220	0.2280	4.600
2-Butanone	0.034	0.029	0.031	0.032	0.030	0.0310	6.700
1,1,1-Trichloroethane	0.616	0.544	0.527	0.556	0.539	0.5560	6.200
Carbon Tetrachloride	0.473	0.430	0.429	0.456	0.439	0.4450	4.300
Bromodichloromethane	0.302	0.278	0.299	0.313	0.299	0.2980	4.200
1,2-Dichloropropane	0.304	0.258	0.262	0.262	0.236	0.2640	9.200
cis-1,3-Dichloropropene	0.360	0.331	0.353	0.366	0.349	0.3520	3.800
Trichloroethene	0.389	0.352	0.346	0.355	0.336	0.3560	5.700
Dibromochloromethane	0.173	0.169	0.180	0.196	0.187	0.1810	6.000
1,1,2-Trichloroethane	0.140	0.129	0.137	0.143	0.137	0.1370	3.600
Benzene	1.529	1.338	1.331	1.368	1.273	1.3680	7.000
trans-1,3-Dichloropropene	0.334	0.309	0.332	0.357	0.345	0.3350	5.300
Bromoform	0.193	0.178	0.200	0.229	0.215	0.2030	9.600
4-Methyl-2-pentanone	0.107	0.090	0.102	0.104	0.095	0.1000	6.900
2-Hexanone	0.069	0.057	0.066	0.066	0.058	0.0630	8.600
Tetrachloroethene	0.539	0.467	0.444	0.459	0.424	0.4660	9.400
1,1,2,2-Tetrachloroethane	0.377	0.334	0.359	0.384	0.359	0.3620	5.400
Toluene	1.344	1.160	1.124	1.174	1.106	1.1820	8.000
Chlorobenzene	1.150	0.994	0.979	1.020	0.957	1.0200	7.500
Ethylbenzene	2.535	2.231	2.134	2.254	2.075	2.2460	7.900
Styrene	1.157	1.058	1.042	1.062	0.952	1.0540	6.900
Total Xylenes	0.841	0.728	0.701	0.709	0.636	0.7230	10.300

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CONTINUING CALIBRATION CHECK

o Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007075-1

o Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

b File Id: N3995.RR Calibration Date: 12/16/2003 Time: 10:42

trument ID: HP5973N Init. Calib. Date(s): 12/16/2003 12/16/2003

ated Purge (Y/N): N Init. Calib. Times: 09:09 11:44

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.2450	0.2143	0.1000	12.500	100.00
Bromomethane	0.1130	0.1029	0.0100	8.900	100.00
Vinyl chloride	0.2270	0.2050	0.0100	9.700	20.00
Chloroethane	0.1090	0.0979	0.0100	10.200	100.00
Methylene chloride	0.2760	0.2428	0.0100	12.000	100.00
Acetone	0.0210	0.0194	0.0100	7.600	100.00
Carbon Disulfide	1.1500	1.0497	0.0100	8.700	100.00
1,1-Dichloroethene	0.3050	0.2769	0.0100	9.200	100.00
1,1-Dichloroethane	0.5650	0.5366	0.1000	5.000	100.00
cis-1,2-Dichloroethene	0.3130	0.3032	0.0100	3.100	100.00
trans-1,2-Dichloroethene	0.3450	0.3224	0.0100	6.600	100.00
Chloroform	0.5430	0.5058	0.0100	6.800	20.00
1,2-Dichloroethane	0.2280	0.2272	0.0100	0.400	100.00
2-Butanone	0.0310	0.0313	0.0100	-1.000	100.00
1,1,1-Trichloroethane	0.5560	0.5273	0.0100	5.200	100.00
Carbon Tetrachloride	0.4450	0.4289	0.0100	3.600	100.00
Bromodichloromethane	0.2980	0.2993	0.0100	-0.400	100.00
1,2-Dichloropropane	0.2640	0.2617	0.0100	0.900	20.00
cis-1,3-Dichloropropene	0.3520	0.3528	0.0100	-0.200	100.00
Trichloroethene	0.3560	0.3456	0.0100	2.900	100.00
Dibromochloromethane	0.1810	0.1803	0.0100	0.400	100.00
1,1,2-Trichloroethane	0.1370	0.1366	0.0100	0.300	100.00
Benzene	1.3680	1.3312	0.0100	2.700	100.00
trans-1,3-Dichloropropene	0.3350	0.3317	0.0100	1.000	100.00
Bromoform	0.2030	0.1997	0.1000	1.600	100.00
4-Methyl-2-pentanone	0.1000	0.1018	0.0100	-1.800	100.00
2-Hexanone	0.0630	0.0657	0.0100	-4.300	100.00
Tetrachloroethene	0.4660	0.4436	0.0100	4.800	100.00
1,1,2,2-Tetrachloroethane	0.3620	0.3588	0.3000	0.900	100.00
Toluene	1.1820	1.1236	0.0100	4.900	20.00
Chlorobenzene	1.0200	0.9793	0.3000	4.000	100.00
Ethylbenzene	2.2460	2.1344	0.0100	5.000	20.00
Styrene	1.0540	1.0417	0.0100	1.200	100.00
Total Xylenes	0.7230	0.7007	0.0100	3.100	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3000	0.2736	0.0100	8.800	100.00
1,2,4-Trichlorobenzene	0.9240	0.9111	0.0100	1.400	100.00
1,2-Dibromo-3-chloropropane	0.0540	0.0548	0.0100	-1.500	100.00
1,2-Dibromoethane	0.1420	0.1410	0.0100	0.700	100.00
1,2-Dichlorobenzene	1.2880	1.2486	0.0100	3.000	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003192

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: N3992 BFB Injection Date: 12/16/2003

Instrument ID: HP5973N BFB Injection Time: 09:09

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	17.7
75	30.0 - 60.0% of mass 95	45.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50 - 120 % of mass 95	67.8
175	5.0 - 9.0% of mass 174	5.0 (7.4) 1
176	95.0 - 101.0% of mass 174	65.0 (95.9) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD040	A3I0001552-1	N3993.RR	12/16/2003	09:39
2	VSTD020	A3I0001552-1	N3994.RR	12/16/2003	10:11
3	VSTD010	A3I0001552-1	N3995.RR	12/16/2003	10:42
4	VSTD010	A3C0007075-1	N3995.RR	12/16/2003	10:42
5	VSTD004	A3I0001552-1	N3996.RR	12/16/2003	11:13
6	VSTD001	A3I0001552-1	N3997.RR	12/16/2003	11:44
7	MSB07	A3C00712	N3998.RR	12/16/2003	12:27
8	VBLK07	A3C00711	N4000.RR	12/16/2003	13:29
9	GW03-005A-P2	A3C00701	N4001.RR	12/16/2003	14:00
.0	GW03-017B-P4 DL	A3C00702DL	N4002.RR	12/16/2003	14:30
.1	GW03-015B-P5 DL	A3C00703DL	N4003.RR	12/16/2003	15:01
.2	GW03-007B-P5	A3C08302	N4004.RR	12/16/2003	15:32
.3	GW03-017B-P6	A3C08303	N4005.RR	12/16/2003	16:03
.4	GW03-017C-P7	A3C03201	N4006.RR	12/16/2003	16:34
.5	GW03-015A-P2	A3C03202	N4007.RR	12/16/2003	17:05

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INITIAL CALIBRATION DATA

ıb Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001542-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ıtrument ID: HP5973P Calibration Dates(s): 12/11/2003 12/11/2003

ɜated Purge (Y/N): N Calibration Times: 11:58 14:14

: Column: DB-624 ID: 0.25(mm)

ɜab File ID: RRF1 = P2679.RR RRF4 = P2678.RR
RRF10 = P2677.RR RRF20 = P2676.RR RRF40 = P2675.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
ıcetone	0.023	0.024	0.028	0.029	0.030	0.0270	11.400
ɜenzene	1.200	1.282	1.323	1.406	1.259	1.2940	5.900
ɜromodichloromethane	0.312	0.370	0.362	0.377	0.364	0.3570	7.200
ɜromoform	0.154	0.193	0.198	0.219	0.216	0.1960	13.300
ɜromomethane	0.088	0.080	0.098	0.096	0.096	0.0920	8.100
ɜ-Butanone	0.041	0.041	0.047	0.048	0.050	0.0450	9.200
ıethyl acetate	0.101	0.084	0.095	0.092	0.096	0.0940	7.000
ɜyclohexane	0.607	0.408	0.647	0.675	0.581	0.5840	18.000
ıethylcyclohexane	0.507	0.357	0.572	0.603	0.514	0.5110	18.500
ɜarbon Disulfide	1.204	0.897	1.108	1.131	1.050	1.0780	10.700
ɜarbon Tetrachloride	0.295	0.277	0.369	0.406	0.318	0.3330	16.000
ɜhlorobenzene	1.067	1.082	1.060	1.097	1.017	1.0650	2.800
ɜhloroethane	0.115	0.085	0.107	0.101	0.100	0.1020	11.000
ɜhloroform	0.614	0.586	0.567	0.582	0.542	0.5780	4.500
ɜhloromethane	0.305	0.217	0.274	0.274	0.296	0.2730	12.400
ɔibromochloromethane	0.173	0.218	0.218	0.232	0.225	0.2130	11.000
ı,2-Dibromo-3-chloropropane	0.049	0.061	0.061	0.067	0.066	0.0610	11.700
ı,2-Dibromoethane	0.163	0.191	0.184	0.193	0.186	0.1830	6.600
ı,2-Dichlorobenzene	1.201	1.320	1.289	1.331	1.270	1.2820	4.000
ı,3-Dichlorobenzene	1.420	1.600	1.570	1.628	1.535	1.5500	5.200
ı,4-Dichlorobenzene	1.495	1.593	1.541	1.586	1.487	1.5400	3.200
ɔichlorodifluoromethane	0.385	0.230	0.392	0.391	0.352	0.3500	19.700
1,1-Dichloroethane	0.565	0.595	0.606	0.636	0.583	0.5970	4.400
1,2-Dichloroethane	0.278	0.326	0.313	0.315	0.303	0.3070	5.900
1,1-Dichloroethene	0.260	0.226	0.288	0.310	0.251	0.2670	12.300
ɜis-1,2-Dichloroethene	0.303	0.344	0.340	0.355	0.326	0.3340	6.000
trans-1,2-Dichloroethene	0.309	0.309	0.333	0.341	0.295	0.3180	6.000
1,2-Dichloropropane	0.288	0.337	0.315	0.340	0.321	0.3200	6.500
ɜis-1,3-Dichloropropene	0.335	0.429	0.419	0.444	0.432	0.4120	10.600
trans-1,3-Dichloropropene	0.327	0.424	0.425	0.437	0.416	0.4060	11.000
Ethylbenzene	1.897	1.889	1.980	2.045	1.795	1.9210	5.000
2-Hexanone	0.085	0.096	0.103	0.104	0.096	0.0970	7.800
Isopropylbenzene	3.298	3.469	3.801	4.061	3.509	3.6270	8.300
ıethylene chloride	0.391	0.342	0.308	0.314	0.299	0.3310	11.300
4-Methyl-2-pentanone	0.140	0.151	0.162	0.159	0.150	0.1530	5.600
Styrene	0.993	1.140	1.152	1.176	1.070	1.1060	6.700
1,1,2,2-Tetrachloroethane	0.409	0.461	0.439	0.450	0.437	0.4390	4.400

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b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007066-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

b File Id: P2748.RR Calibration Date: 12/13/2003 Time: 12:55

trument ID: HP5973P Init. Calib. Date(s): 12/11/2003 12/11/2003

ated Purge (Y/N): N Init. Calib. Times: 11:58 14:14

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0270	0.0278	0.0100	-3.000	100.00
Benzene	1.2940	1.4044	0.0100	-8.500	100.00
Bromodichloromethane	0.3570	0.3366	0.0100	5.700	100.00
Bromoform	0.1960	0.1619	0.1000	17.400	100.00
Bromomethane	0.0920	0.0781	0.0100	15.100	100.00
2-Butanone	0.0450	0.0418	0.0100	7.100	100.00
Methyl acetate	0.0940	0.0930	0.0100	1.100	100.00
Cyclohexane	0.5840	0.5888	0.0100	-0.800	100.00
Methylcyclohexane	0.5110	0.5068	0.0100	0.800	100.00
Carbon Disulfide	1.0780	1.0018	0.0100	7.100	100.00
Carbon Tetrachloride	0.3330	0.3869	0.0100	-16.200	100.00
Chlorobenzene	1.0650	1.0248	0.3000	3.800	100.00
Chloroethane	0.1020	0.1192	0.0100	-16.900	100.00
Chloroform	0.5780	0.5903	0.0100	-2.100	20.00
Chloromethane	0.2730	0.3278	0.1000	-20.100	100.00
Dibromochloromethane	0.2130	0.1843	0.0100	13.500	100.00
1,2-Dibromo-3-chloropropane	0.0610	0.0527	0.0100	13.600	100.00
1,2-Dibromoethane	0.1830	0.1484	0.0100	18.900	100.00
1,2-Dichlorobenzene	1.2820	1.1832	0.0100	7.700	100.00
1,3-Dichlorobenzene	1.5500	1.5073	0.0100	2.800	100.00
1,4-Dichlorobenzene	1.5400	1.4632	0.0100	5.000	100.00
Dichlorodifluoromethane	0.3500	0.3433	0.0100	1.900	100.00
1,1-Dichloroethane	0.5970	0.6472	0.1000	-8.400	100.00
1,2-Dichloroethane	0.3070	0.3058	0.0100	0.400	100.00
1,1-Dichloroethene	0.2670	0.3032	0.0100	-13.600	100.00
cis-1,2-Dichloroethene	0.3340	0.3412	0.0100	-2.200	100.00
trans-1,2-Dichloroethene	0.3180	0.3434	0.0100	-8.000	100.00
1,2-Dichloropropane	0.3200	0.3087	0.0100	3.500	20.00
cis-1,3-Dichloropropene	0.4120	0.3717	0.0100	9.800	100.00
trans-1,3-Dichloropropene	0.4060	0.3584	0.0100	11.700	100.00
Ethylbenzene	1.9210	1.9548	0.0100	-1.800	20.00
2-Hexanone	0.0970	0.0793	0.0100	18.200	100.00
Isopropylbenzene	3.6270	3.7295	0.0100	-2.800	100.00
Methylene chloride	0.3310	0.3038	0.0100	8.200	100.00
4-Methyl-2-pentanone	0.1530	0.1226	0.0100	19.900	100.00
Styrene	1.1060	1.0631	0.0100	3.900	100.00
1,1,2,2-Tetrachloroethane	0.4390	0.3788	0.3000	13.700	100.00
Tetrachloroethene	0.3500	0.3627	0.0100	-3.600	100.00
Toluene	1.0150	1.0417	0.0100	-2.600	20.00

FORM VII VOA

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b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007066-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

b File Id: P2748.RR Calibration Date: 12/13/2003 Time: 12:55

trument ID: HP5973P Init. Calib. Date(s): 12/11/2003 12/11/2003

ated Purge (Y/N): N Init. Calib. Times: 11:58 14:14

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8770	0.7965	0.0100	9.200	100.00
1,1,1-Trichloroethane	0.4560	0.5051	0.0100	-10.800	100.00
1,1,2-Trichloroethane	0.1850	0.1634	0.0100	11.700	100.00
Trichloroethene	0.3160	0.3307	0.0100	-4.600	100.00
Trichlorofluoromethane	0.2530	0.3227	0.0100	-27.500	100.00
Vinyl chloride	0.2040	0.2316	0.0100	-13.500	20.00
Total Xylenes	0.6820	0.6673	0.0100	2.200	100.00
Methyl tert butyl ether	0.4520	0.3324	0.0100	26.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.2870	0.0100	-7.500	100.00
1,2-Dichloroethane-D4	0.2210	0.2411	0.0100	-9.100	100.00
Toluene-D8	1.3040	1.4744	0.0100	-13.100	100.00
p-Bromofluorobenzene	0.3250	0.3454	0.0100	-6.300	100.00

FORM VII VOA

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003188

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: P2747 BFB Injection Date: 12/13/2003

Instrument ID: HP5973P BFB Injection Time: 12:35

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	46.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	8.86 mT 12/20/2003
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50 - 120 % of mass 95	70.8
175	5.0 - 9.0% of mass 174	4.7 (6.7) 1
176	95.0 - 101.0% of mass 174	69.5 (98.2) 1
177	5.0 - 9.0% of mass 176	5.7 (8.2) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007066-1	P2748.RR	12/13/2003	12:55
2	VBLK33	A3B97003	P2750.RR	12/13/2003	14:02
3	MSB33	A3B97004	P2752.RR	12/13/2003	15:19
4	GW03-015B-P6	A3B97001	P2758.RR	12/13/2003	18:39
5	GW03-015C-P7	A3B97002	P2759.RR	12/13/2003	19:13
6	GW03-017B-P4	A3C00702	P2761.RR	12/13/2003	20:20
7	GW03-015B-P5	A3C00703	P2762.RR	12/13/2003	20:53
8	GW03-007A-P2	A3C00704	P2763.RR	12/13/2003	21:27
9	TB03-121003	A3C00705	P2764.RR	12/13/2003	22:00
10	TB04-121003	A3C00706	P2765.RR	12/13/2003	22:33
11	TB02-121003	A3C00707	P2766.RR	12/13/2003	23:07
12	TB01-121003	A3C00708	P2767.RR	12/13/2003	23:40

FORM V VOA

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CONTINUING CALIBRATION CHECK

b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007069-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

b File Id: P2771.RR Calibration Date: 12/14/2003 Time: 15:07

trument ID: HP5973P Init. Calib. Date(s): 12/11/2003 12/11/2003

ated Purge (Y/N): N Init. Calib. Times: 11:58 14:14

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0270	0.0239	0.0100	11.500	100.00
Benzene	1.2940	1.3856	0.0100	-7.100	100.00
Bromodichloromethane	0.3570	0.3239	0.0100	9.300	100.00
Bromoform	0.1960	0.1491	0.1000	23.900	100.00
Bromomethane	0.0920	0.0721	0.0100	21.600	100.00
2-Butanone	0.0450	0.0423	0.0100	6.000	100.00
Methyl acetate	0.0940	0.0745	0.0100	20.700	100.00
Cyclohexane	0.5840	0.6858	0.0100	-17.400	100.00
Methylcyclohexane	0.5110	0.5706	0.0100	-11.700	100.00
Carbon Disulfide	1.0780	1.2351	0.0100	-14.600	100.00
Carbon Tetrachloride	0.3330	0.3995	0.0100	-20.000	100.00
Chlorobenzene	1.0650	1.0643	0.3000	0.100	100.00
Chloroethane	0.1020	0.1186	0.0100	-16.300	100.00
Chloroform	0.5780	0.5869	0.0100	-1.500	20.00
Chloromethane	0.2730	0.3111	0.1000	-14.000	100.00
Dibromochloromethane	0.2130	0.1806	0.0100	15.200	100.00
1,2-Dibromo-3-chloropropane	0.0610	0.0492	0.0100	19.300	100.00
1,2-Dibromoethane	0.1830	0.1459	0.0100	20.300	100.00
1,2-Dichlorobenzene	1.2820	1.1861	0.0100	7.500	100.00
1,3-Dichlorobenzene	1.5500	1.5757	0.0100	-1.600	100.00
1,4-Dichlorobenzene	1.5400	1.5142	0.0100	1.700	100.00
Dichlorodifluoromethane	0.3500	0.3241	0.0100	7.400	100.00
1,1-Dichloroethane	0.5970	0.6649	0.1000	-11.400	100.00
1,2-Dichloroethane	0.3070	0.2819	0.0100	8.200	100.00
1,1-Dichloroethene	0.2670	0.3160	0.0100	-18.400	100.00
cis-1,2-Dichloroethene	0.3340	0.3394	0.0100	-1.600	100.00
trans-1,2-Dichloroethene	0.3180	0.3602	0.0100	-13.300	100.00
1,2-Dichloropropane	0.3200	0.3167	0.0100	1.000	20.00
cis-1,3-Dichloropropene	0.4120	0.3549	0.0100	13.800	100.00
trans-1,3-Dichloropropene	0.4060	0.3536	0.0100	12.900	100.00
Ethylbenzene	1.9210	2.1858	0.0100	-13.800	20.00
2-Hexanone	0.0970	0.0799	0.0100	17.600	100.00
Isopropylbenzene	3.6270	4.2305	0.0100	-16.600	100.00
Methylene chloride	0.3310	0.2974	0.0100	10.200	100.00
4-Methyl-2-pentanone	0.1530	0.1237	0.0100	19.200	100.00
Styrene	1.1060	1.1277	0.0100	-2.000	100.00
1,1,2,2-Tetrachloroethane	0.4390	0.3556	0.3000	19.000	100.00
Tetrachloroethene	0.3500	0.4077	0.0100	-16.500	100.00
Toluene	1.0150	1.1243	0.0100	-10.800	20.00

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CONTINUING CALIBRATION CHECK

b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007069-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

b File Id: P2771.RR Calibration Date: 12/14/2003 Time: 15:07

trument ID: HP5973P Init. Calib. Date(s): 12/11/2003 12/11/2003

ated Purge (Y/N): N Init. Calib. Times: 11:58 14:14

Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8770	0.8097	0.0100	7.700	100.00
1,1,1-Trichloroethane	0.4560	0.5293	0.0100	-16.100	100.00
1,1,2-Trichloroethane	0.1850	0.1587	0.0100	14.200	100.00
Trichloroethene	0.3160	0.3420	0.0100	-8.200	100.00
Trichlorofluoromethane	0.2530	0.3152	0.0100	-24.600	100.00
Vinyl chloride	0.2040	0.2400	0.0100	-17.600	20.00
Total Xylenes	0.6820	0.7379	0.0100	-8.200	100.00
Methyl tert butyl ether	0.4520	0.3367	0.0100	25.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3160	0.0100	-18.400	100.00
1,2-Dichloroethane-D4	0.2210	0.2156	0.0100	2.400	100.00
Toluene-D8	1.3040	1.5411	0.0100	-18.200	100.00
p-Bromofluorobenzene	0.3250	0.3425	0.0100	-5.400	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003193

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: P2770 BFB Injection Date: 12/14/2003

Instrument ID: HP5973P BFB Injection Time: 14:41

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.4		
75	30.0 - 60.0% of mass 95	54.9		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.6		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	62.4		
175	5.0 - 9.0% of mass 174	5.0	(8.0)	1
176	95.0 - 101.0% of mass 174	61.7	(98.8)	1
177	5.0 - 9.0% of mass 176	5.2	(8.4)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007069-1	P2771.RR	12/14/2003	15:07
2	MSB06	A3C08306	P2772.RR	12/14/2003	16:02
3	VBLK06	A3C08305	P2773.RR	12/14/2003	16:35
4	GW03-007A-P3	A3C08301	P2777.RR	12/14/2003	19:02
5	TB1-121103	A3C08304	P2780.RR	12/14/2003	20:43

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INITIAL CALIBRATION DATA

ıb Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001557-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ıtrument ID: HP5973Q Calibration Dates(s): 12/17/2003 12/17/2003

ɜated Purge (Y/N): N Calibration Times: 23:12 23:44

: Column: DB-624 ID: 0.25(mm)

ɹab File ID: RRF1 = Q4465.RR RRF4 = Q4464.RR
RRF10 = Q4463.RR RRF20 = Q4462.RR RRF40 = Q4461.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Acetone	0.052	0.043	0.043	0.043	0.041	0.0440	10.100
Benzene	1.800	1.696	1.616	1.560	1.394	1.6130	9.400
Bromodichloromethane	0.498	0.472	0.464	0.468	0.459	0.4720	3.200
Bromoform	0.192	0.194	0.204	0.216	0.210	0.2030	5.000
Bromomethane	0.210	0.183	0.166	0.160	0.153	0.1750	13.100
2-Butanone	0.077	0.069	0.069	0.070	0.067	0.0700	5.500
Methyl acetate	0.155	0.136	0.133	0.135	0.130	0.1380	7.200
Cyclohexane	0.925	0.881	0.835	0.848	0.806	0.8590	5.300
Methylcyclohexane	0.759	0.714	0.656	0.648	0.582	0.6720	10.000
Carbon Disulfide	1.332	1.203	1.138	1.139	1.073	1.1770	8.300
Carbon Tetrachloride	0.615	0.589	0.580	0.584	0.577	0.5890	2.600
Chlorobenzene	2.181	2.011	1.929	1.858	1.719	1.9400	8.900
Chloroethane	0.266	0.251	0.233	0.232	0.284	0.2530	8.800
Chloroform	0.952	0.797	0.738	0.719	0.693	0.7800	13.300
Chloromethane	0.461	0.403	0.381	0.364	0.375	0.3970	9.700
Dibromochloromethane	0.410	0.406	0.409	0.409	0.409	0.4090	0.400
1,2-Dibromo-3-chloropropane	0.069	0.064	0.066	0.071	0.067	0.0670	3.700
1,2-Dibromoethane	0.328	0.310	0.308	0.306	0.299	0.3100	3.500
1,2-Dichlorobenzene	1.640	1.452	1.379	1.343	1.252	1.4130	10.300
1,3-Dichlorobenzene	2.084	1.827	1.742	1.667	1.547	1.7730	11.400
1,4-Dichlorobenzene	1.951	1.774	1.655	1.611	1.498	1.6980	10.200
Dichlorodifluoromethane	0.514	0.454	0.427	0.430	0.429	0.4510	8.200
1,1-Dichloroethane	0.875	0.816	0.782	0.766	0.734	0.7950	6.800
1,2-Dichloroethane	0.488	0.445	0.436	0.432	0.423	0.4450	5.700
1,1-Dichloroethene	0.381	0.362	0.342	0.332	0.317	0.3470	7.200
cis-1,2-Dichloroethene	0.441	0.418	0.397	0.386	0.360	0.4000	7.800
trans-1,2-Dichloroethene	0.443	0.412	0.395	0.384	0.368	0.4000	7.200
1,2-Dichloropropane	0.439	0.404	0.387	0.375	0.346	0.3900	8.800
cis-1,3-Dichloropropene	0.523	0.520	0.517	0.515	0.502	0.5150	1.600
trans-1,3-Dichloropropene	0.785	0.773	0.781	0.789	0.776	0.7810	0.800
Ethylbenzene	4.135	3.992	3.793	3.577	3.083	3.7160	11.100
2-Hexanone	0.203	0.206	0.207	0.208	0.192	0.2030	3.100
Isopropylbenzene	4.914	4.796	4.594	4.345	3.884	4.5070	9.100
Methylene chloride	0.454	0.364	0.333	0.320	0.309	0.3560	16.400
4-Methyl-2-pentanone	0.339	0.321	0.320	0.326	0.305	0.3220	3.700
Styrene	2.052	2.055	1.967	1.895	1.691	1.9320	7.800
1,1,2,2-Tetrachloroethane	0.465	0.436	0.432	0.424	0.412	0.4340	4.500

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CONTINUING CALIBRATION CHECK

b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007119-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

b File Id: Q4468.RR Calibration Date: 12/18/2003 Time: 10:04

trument ID: HP5973Q Init. Calib. Date(s): 12/17/2003 12/17/2003

ated Purge (Y/N): N Init. Calib. Times: 23:12 23:44

Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0440	0.0391	0.0100	11.100	100.00
Benzene	1.6130	1.5499	0.0100	3.900	100.00
Bromodichloromethane	0.4720	0.4394	0.0100	6.900	100.00
Bromoform	0.2030	0.1907	0.1000	6.000	100.00
Bromomethane	0.1750	0.1644	0.0100	6.000	100.00
2-Butanone	0.0700	0.0630	0.0100	10.000	100.00
Methyl acetate	0.1380	0.1247	0.0100	9.600	100.00
Cyclohexane	0.8590	0.7048	0.0100	18.000	100.00
Methylcyclohexane	0.6720	0.5456	0.0100	18.800	100.00
Carbon Disulfide	1.1770	0.9680	0.0100	17.800	100.00
Carbon Tetrachloride	0.5890	0.5384	0.0100	8.600	100.00
Chlorobenzene	1.9400	1.8705	0.3000	3.600	100.00
Chloroethane	0.2530	0.3139	0.0100	-24.100	100.00
Chloroform	0.7800	0.7064	0.0100	9.400	20.00
Chloromethane	0.3970	0.4334	0.1000	-9.200	100.00
Dibromochloromethane	0.4090	0.3870	0.0100	5.400	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0622	0.0100	7.200	100.00
1,2-Dibromoethane	0.3100	0.2923	0.0100	5.700	100.00
1,2-Dichlorobenzene	1.4130	1.3208	0.0100	6.500	100.00
1,3-Dichlorobenzene	1.7730	1.6672	0.0100	6.000	100.00
1,4-Dichlorobenzene	1.6980	1.6141	0.0100	4.900	100.00
Dichlorodifluoromethane	0.4510	0.4951	0.0100	-9.800	100.00
1,1-Dichloroethane	0.7950	0.7418	0.1000	6.700	100.00
1,2-Dichloroethane	0.4450	0.4036	0.0100	9.300	100.00
1,1-Dichloroethene	0.3470	0.3210	0.0100	7.500	100.00
cis-1,2-Dichloroethene	0.4000	0.3860	0.0100	3.500	100.00
trans-1,2-Dichloroethene	0.4000	0.3764	0.0100	5.900	100.00
1,2-Dichloropropane	0.3900	0.3707	0.0100	4.900	20.00
cis-1,3-Dichloropropene	0.5150	0.4927	0.0100	4.300	100.00
trans-1,3-Dichloropropene	0.7810	0.7509	0.0100	3.800	100.00
Ethylbenzene	3.7160	3.6855	0.0100	0.800	20.00
2-Hexanone	0.2030	0.1931	0.0100	4.900	100.00
Isopropylbenzene	4.5070	4.4808	0.0100	0.600	100.00
Methylene chloride	0.3560	0.3222	0.0100	9.500	100.00
4-Methyl-2-pentanone	0.3220	0.2984	0.0100	7.300	100.00
Styrene	1.9320	1.8921	0.0100	2.100	100.00
1,1,2,2-Tetrachloroethane	0.4340	0.4132	0.3000	4.800	100.00
Tetrachloroethene	0.7760	0.7443	0.0100	4.100	100.00
Toluene	1.9610	1.9165	0.0100	2.300	20.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003234

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: Q4467 BFB Injection Date: 12/18/2003

Instrument ID: HP5973Q BFB Injection Time: 09:31

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	23.8
75	30.0 - 60.0% of mass 95	50.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50 - 120 % of mass 95	69.6
175	5.0 - 9.0% of mass 174	5.5 (7.9) 1
176	95.0 - 101.0% of mass 174	66.5 (95.5) 1
177	5.0 - 9.0% of mass 176	3.6 (5.4) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007119-1	Q4468.RR	12/18/2003	10:04
2	MSB22	A3C15106	Q4469.RR	12/18/2003	10:36
3	VBLK22	A3C15105	Q4471.RR	12/18/2003	11:41
4	TB1-121203	A3C15102	Q4475.RR	12/18/2003	13:50
5	GW03-017A-P2	A3C15101	Q4485.RR	12/18/2003	19:14
6	GW03-017A-P2MS	A3C15101MS	Q4486.RR	12/18/2003	19:46
7	GW03-017A-P2SD	A3C15101SD	Q4487.RR	12/18/2003	20:19

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ıb Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001536-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

ıtrument ID: I50K Calibration Dates(s): 12/10/2003 12/10/2003

ıated Purge (Y/N): N Calibration Times: 09:30 12:22

! Column: DB-624 ID: 0.53(mm)

ıab File ID: RRF1 = K6074.RR RRF4 = K6073.RR
RRF10 = K6072.RR RRF20 = K6071.RR RRF40 = K6070.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
ıcetone	0.031	0.029	0.032	0.032	0.032	0.0310	4.900
ıenzene	1.242	1.101	1.292	1.123	1.236	1.1990	6.900
ıromodichloromethane	0.738	0.650	0.819	0.741	0.774	0.7440	8.400
ıromoform	0.398	0.407	0.502	0.492	0.533	0.4660	13.000
ıromomethane	0.367	0.340	0.454	0.436	0.474	0.4140	13.900
-Butanone	0.064	0.050	0.057	0.057	0.060	0.0570	9.100
lethyl acetate	0.134	0.119	0.130	0.136	0.135	0.1310	5.200
yclohexane	0.819	0.664	0.723	0.671	0.748	0.7250	8.700
lethylcyclohexane	0.664	0.542	0.623	0.592	0.633	0.6110	7.600
arbon Disulfide	1.071	0.976	1.122	1.157	1.179	1.1010	7.300
arbon Tetrachloride	0.691	0.634	0.740	0.661	0.696	0.6840	5.800
hlorobenzene	1.210	1.104	1.307	1.190	1.194	1.2010	6.000
hloroethane	0.349	0.279	0.358	0.338	0.374	0.3400	10.700
hloroform	1.037	0.856	1.030	0.866	0.888	0.9350	9.600
hloromethane	0.505	0.397	0.520	0.477	0.485	0.4770	10.100
ıibromochloromethane	0.517	0.488	0.630	0.585	0.580	0.5600	10.200
,2-Dibromo-3-chloropropane	0.088	0.103	0.142	0.127	0.139	0.1200	19.800
,2-Dibromoethane	0.416	0.381	0.442	0.404	0.407	0.4100	5.300
,2-Dichlorobenzene	1.502	1.328	1.517	1.454	1.478	1.4560	5.200
,3-Dichlorobenzene	1.968	1.698	1.919	1.790	2.183	1.9120	9.700
,4-Dichlorobenzene	2.037	1.709	1.918	1.756	1.945	1.8730	7.300
ıichlorodifluoromethane	0.707	0.590	0.752	0.690	0.744	0.6970	9.300
,1-Dichloroethane	0.909	0.793	0.971	0.869	0.871	0.8830	7.300
,2-Dichloroethane	0.452	0.380	0.456	0.398	0.394	0.4160	8.500
,1-Dichloroethene	0.411	0.374	0.423	0.416	0.435	0.4120	5.600
is-1,2-Dichloroethene	0.449	0.399	0.485	0.442	0.443	0.4440	6.900
rans-1,2-Dichloroethene	0.413	0.392	0.465	0.427	0.437	0.4270	6.400
,2-Dichloropropane	0.505	0.419	0.502	0.475	0.471	0.4740	7.300
is-1,3-Dichloropropene	0.602	0.556	0.633	0.595	0.611	0.5990	4.700
rans-1,3-Dichloropropene	0.518	0.471	0.558	0.510	0.527	0.5170	6.100
thylbenzene	2.178	1.830	2.124	1.983	2.119	2.0470	6.900
-Hexanone	0.157	0.134	0.149	0.141	0.145	0.1450	6.000
sopropylbenzene	3.636	3.162	3.540	3.109	3.343	3.3580	6.800
ethylene chloride	0.511	0.343	0.413	0.355	0.372	0.3990	17.000
-Methyl-2-pentanone	0.248	0.208	0.228	0.223	0.226	0.2270	6.200
tyrene	1.093	1.002	1.192	1.112	1.184	1.1170	6.900
,1,2,2-Tetrachloroethane	0.588	0.542	0.639	0.608	0.653	0.6060	7.200

FORM VI VOA

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ıb Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007100-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

ıb File Id: K6338.RR Calibration Date: 12/17/2003 Time: 23:09

ıtrument ID: I50K Init. Calib. Date(s): 12/10/2003 12/10/2003

ɜated Purge (Y/N): N Init. Calib. Times: 09:30 12:22

: Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0310	0.0259	0.0100	16.400	100.00
Benzene	1.1990	1.1834	0.0100	1.300	100.00
Bromodichloromethane	0.7440	0.7184	0.0100	3.400	100.00
Bromoform	0.4660	0.5249	0.1000	-12.600	100.00
Bromomethane	0.4140	0.3486	0.0100	15.800	100.00
2-Butanone	0.0570	0.0496	0.0100	13.000	100.00
Methyl acetate	0.1310	0.1315	0.0100	-0.400	100.00
Cyclohexane	0.7250	0.6711	0.0100	7.400	100.00
Methylcyclohexane	0.6110	0.5972	0.0100	2.200	100.00
Carbon Disulfide	1.1010	1.1774	0.0100	-6.900	100.00
Carbon Tetrachloride	0.6840	0.6403	0.0100	6.400	100.00
Chlorobenzene	1.2010	1.2519	0.3000	-4.200	100.00
Chloroethane	0.3400	0.3131	0.0100	7.900	100.00
Chloroform	0.9350	0.8894	0.0100	4.900	20.00
Chloromethane	0.4770	0.4239	0.1000	11.100	100.00
Dibromochloromethane	0.5600	0.6276	0.0100	-12.100	100.00
1,2-Dibromo-3-chloropropane	0.1200	0.1189	0.0100	0.900	100.00
1,2-Dibromoethane	0.4100	0.4635	0.0100	-13.000	100.00
1,2-Dichlorobenzene	1.4560	1.5175	0.0100	-4.200	100.00
1,3-Dichlorobenzene	1.9120	1.8020	0.0100	5.800	100.00
1,4-Dichlorobenzene	1.8730	1.7932	0.0100	4.300	100.00
Dichlorodifluoromethane	0.6970	0.5697	0.0100	18.300	100.00
1,1-Dichloroethane	0.8830	0.8970	0.1000	-1.600	100.00
1,2-Dichloroethane	0.4160	0.3840	0.0100	7.700	100.00
1,1-Dichloroethene	0.4120	0.4889	0.0100	-18.700	100.00
cis-1,2-Dichloroethene	0.4440	0.4753	0.0100	-7.000	100.00
trans-1,2-Dichloroethene	0.4270	0.4869	0.0100	-14.000	100.00
1,2-Dichloropropane	0.4740	0.4593	0.0100	3.100	20.00
cis-1,3-Dichloropropene	0.5990	0.5856	0.0100	2.100	100.00
trans-1,3-Dichloropropene	0.5170	0.5254	0.0100	-1.600	100.00
Ethylbenzene	2.0470	1.9739	0.0100	3.600	20.00
2-Hexanone	0.1450	0.1243	0.0100	14.300	100.00
Isopropylbenzene	3.3580	3.1228	0.0100	7.000	100.00
Methylene chloride	0.3990	0.3890	0.0100	2.500	100.00
4-Methyl-2-pentanone	0.2270	0.2127	0.0100	6.300	100.00
Styrene	1.1170	1.1687	0.0100	-4.600	100.00
1,1,2,2-Tetrachloroethane	0.6060	0.6249	0.3000	-3.100	100.00
Tetrachloroethene	0.8140	0.8979	0.0100	-10.300	100.00
Toluene	0.9910	0.9962	0.0100	-0.500	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

ab Name: STL Buffalo Contract: _____ Tune ID: A3T0003214

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121201

ab File ID: K6337 BFB Injection Date: 12/17/2003

nstrument ID: I50K BFB Injection Time: 22:38

C Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	16.6
75	30.0 - 60.0% of mass 95	41.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.1 (0.2) 1
174	50 - 120 % of mass 95	68.6
175	5.0 - 9.0% of mass 174	4.5 (6.6) 1
176	95.0 - 101.0% of mass 174	68.7 (100.2) 1
177	5.0 - 9.0% of mass 176	5.2 (7.5) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007100-1	K6338.RR	12/17/2003	23:09
2	MSB21	A3C15007	K6340.RR	12/18/2003	00:21
3	VBLK21	A3C15006	K6341.RR	12/18/2003	00:56
4	TB2-121203	A3C15004	K6342.RR	12/18/2003	01:30
5	TB-3-12/12/03	A3C15005	K6343.RR	12/18/2003	02:05
6	GW03-002A-P2	A3C15001	K6352.RR	12/18/2003	07:14
7	GW03-016A-P1	A3C15002	K6353.RR	12/18/2003	07:48
8	GW03-016B-P4	A3C15003	K6354.RR	12/18/2003	08:22

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ıb Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001563-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

ıtrument ID: I50K Calibration Dates(s): 12/18/2003 12/18/2003

ɜated Purge (Y/N): N Calibration Times: 10:31 13:29

: Column: DB-624 ID: 0.53 (mm)

ıab File ID: RRF1 = K6362.RR RRF4 = K6361.RR
RRF10 = K6360.RR RRF20 = K6359.RR RRF40 = K6358.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
ıcetone	0.020	0.023	0.022	0.024	0.025	0.0230	8.400
ɜenzene	1.153	1.120	1.106	1.099	1.098	1.1150	2.100
ɜromodichloromethane	0.633	0.629	0.666	0.681	0.660	0.6540	3.400
ɜromoform	0.377	0.434	0.503	0.484	0.466	0.4530	10.900
ɜromomethane	0.292	0.345	0.346	0.372	0.338	0.3390	8.600
ɜ-Butanone	0.048	0.042	0.048	0.048	0.049	0.0470	5.800
ıethyl acetate	0.097	0.115	0.117	0.131	0.138	0.1200	13.300
ɜyclohexane	0.673	0.650	0.593	0.597	0.594	0.6210	6.000
ıethylcyclohexane	0.553	0.568	0.561	0.570	0.593	0.5690	2.600
ɜarbon Disulfide	1.015	1.038	0.998	1.011	1.072	1.0270	2.800
ɜarbon Tetrachloride	0.575	0.603	0.602	0.564	0.542	0.5770	4.400
ɜhlorobenzene	1.291	1.159	1.196	1.183	1.099	1.1850	5.900
ɜhloroethane	0.186	0.245	0.235	0.243	0.259	0.2340	12.000
ɜhloroform	0.955	0.840	0.812	0.787	0.749	0.8290	9.400
ɜhloromethane	0.354	0.376	0.365	0.391	0.380	0.3730	3.800
ɔibromochloromethane	0.476	0.527	0.585	0.592	0.530	0.5420	8.800
.,2-Dibromo-3-chloropropane	0.081	0.094	0.116	0.119	0.116	0.1050	16.000
.,2-Dibromoethane	0.395	0.403	0.434	0.430	0.392	0.4110	4.800
.,2-Dichlorobenzene	1.445	1.385	1.457	1.380	1.351	1.4030	3.200
.,3-Dichlorobenzene	1.713	1.745	1.724	1.648	1.663	1.6980	2.400
.,4-Dichlorobenzene	1.852	1.806	1.789	1.668	1.619	1.7470	5.600
ɔichlorodifluoromethane	0.470	0.520	0.467	0.468	0.447	0.4740	5.700
.,1-Dichloroethane	0.827	0.803	0.787	0.801	0.791	0.8020	2.000
.,2-Dichloroethane	0.368	0.344	0.351	0.344	0.336	0.3480	3.500
.,1-Dichloroethene	0.363	0.416	0.398	0.395	0.399	0.3940	4.900
ɜis-1,2-Dichloroethene	0.421	0.426	0.436	0.449	0.416	0.4300	3.100
ɜrans-1,2-Dichloroethene	0.387	0.443	0.432	0.434	0.431	0.4250	5.200
.,2-Dichloropropane	0.470	0.431	0.435	0.448	0.436	0.4440	3.600
ɜis-1,3-Dichloropropene	0.581	0.537	0.573	0.567	0.552	0.5620	3.100
ɜrans-1,3-Dichloropropene	0.464	0.491	0.487	0.492	0.458	0.4780	3.400
ɜthylbenzene	1.942	1.896	1.849	1.829	1.825	1.8680	2.700
ɜ-Hexanone	0.129	0.115	0.125	0.129	0.124	0.1240	4.800
ɜsopropylbenzene	2.969	3.018	3.095	2.856	2.837	2.9550	3.700
ıethylene chloride	0.382	0.342	0.328	0.328	0.328	0.3420	6.900
ɜ-Methyl-2-pentanone	0.209	0.188	0.197	0.200	0.187	0.1960	4.700
ɜtyrene	1.000	1.070	1.090	1.102	1.053	1.0630	3.800
.,1,2,2-Tetrachloroethane	0.574	0.561	0.593	0.574	0.593	0.5790	2.400

FORM VI VOA

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.b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007117-1

.b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

.b File Id: K6377.RR Calibration Date: 12/18/2003 Time: 22:33

.trument ID: I50K Init. Calib. Date(s): 12/18/2003 12/18/2003

:ated Purge (Y/N): N Init. Calib. Times: 10:31 13:29

! Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0230	0.0242	0.0100	-5.200	100.00
Benzene	1.1150	1.1691	0.0100	-4.800	100.00
Bromodichloromethane	0.6540	0.6879	0.0100	-5.200	100.00
Bromoform	0.4530	0.5006	0.1000	-10.500	100.00
Bromomethane	0.3390	0.3732	0.0100	-10.100	100.00
2-Butanone	0.0470	0.0459	0.0100	2.300	100.00
Methyl acetate	0.1200	0.1278	0.0100	-6.500	100.00
Cyclohexane	0.6210	0.6317	0.0100	-1.700	100.00
Methylcyclohexane	0.5690	0.5850	0.0100	-2.800	100.00
Carbon Disulfide	1.0270	1.1589	0.0100	-12.800	100.00
Carbon Tetrachloride	0.5770	0.6071	0.0100	-5.200	100.00
Chlorobenzene	1.1850	1.1981	0.3000	-1.100	100.00
Chloroethane	0.2340	0.3072	0.0100	-31.300	100.00
Chloroform	0.8290	0.8524	0.0100	-2.800	20.00
Chloromethane	0.3730	0.4129	0.1000	-10.700	100.00
Dibromochloromethane	0.5420	0.5660	0.0100	-4.400	100.00
1,2-Dibromo-3-chloropropane	0.1050	0.1145	0.0100	-9.000	100.00
1,2-Dibromoethane	0.4110	0.4337	0.0100	-5.500	100.00
1,2-Dichlorobenzene	1.4030	1.4473	0.0100	-3.200	100.00
1,3-Dichlorobenzene	1.6980	1.6957	0.0100	0.100	100.00
1,4-Dichlorobenzene	1.7470	1.7918	0.0100	-2.600	100.00
Dichlorodifluoromethane	0.4740	0.5564	0.0100	-17.400	100.00
1,1-Dichloroethane	0.8020	0.8499	0.1000	-6.000	100.00
1,2-Dichloroethane	0.3480	0.3735	0.0100	-7.300	100.00
1,1-Dichloroethene	0.3940	0.4525	0.0100	-14.800	100.00
cis-1,2-Dichloroethene	0.4300	0.4690	0.0100	-9.100	100.00
trans-1,2-Dichloroethene	0.4250	0.4616	0.0100	-8.600	100.00
1,2-Dichloropropane	0.4440	0.4565	0.0100	-2.800	20.00
cis-1,3-Dichloropropene	0.5620	0.5705	0.0100	-1.500	100.00
trans-1,3-Dichloropropene	0.4780	0.4968	0.0100	-3.900	100.00
Ethylbenzene	1.8680	1.8637	0.0100	0.200	20.00
2-Hexanone	0.1240	0.1189	0.0100	4.100	100.00
Isopropylbenzene	2.9550	3.1502	0.0100	-6.600	100.00
Methylene chloride	0.3420	0.3628	0.0100	-6.100	100.00
4-Methyl-2-pentanone	0.1960	0.1858	0.0100	5.200	100.00
Styrene	1.0630	1.0895	0.0100	-2.500	100.00
1,1,2,2-Tetrachloroethane	0.5790	0.6216	0.3000	-7.400	100.00
Tetrachloroethene	0.8220	0.8464	0.0100	-3.000	100.00
Toluene	0.9670	0.9878	0.0100	-2.200	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

ab Name: STL Buffalo Contract: _____ Tune ID: A3T0003232

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121201

ab File ID: K6376 BFB Injection Date: 12/18/2003

nstrument ID: I50K BFB Injection Time: 22:02

C Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.4		
75	30.0 - 60.0% of mass 95	47.3		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.1		
173	Less than 2.0% of mass 174	0.1	(0.2)	1
174	50 - 120 % of mass 95	68.6		
175	5.0 - 9.0% of mass 174	4.3	(6.2)	1
176	95.0 - 101.0% of mass 174	67.3	(98.1)	1
177	5.0 - 9.0% of mass 176	4.6	(6.8)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007117-1	K6377.RR	12/18/2003	22:33
2	MSB23	A3C20809	K6379.RR	12/18/2003	23:57
3	VBLK23	A3C20808	K6380.RR	12/19/2003	00:31
4	TB1-121503	A3C20805	K6381.RR	12/19/2003	01:05
5	TB2-121503	A3C20806	K6382.RR	12/19/2003	01:38
6	TB3-121503	A3C20807	K6383.RR	12/19/2003	02:12
7	EB1-121503	A3C20802	K6384.RR	12/19/2003	02:46
8	TB4-121503	A3C21704	K6385.RR	12/19/2003	03:21
9	TB5-121503	A3C21705	K6386.RR	12/19/2003	03:56
0	TB6-121503	A3C21706	K6387.RR	12/19/2003	04:30
1	EB2-121503	A3C21703	K6389.RR	12/19/2003	05:39
2	GW03-016B-P6	A3C21701	K6390.RR	12/19/2003	06:13
3	GW03-014A-P1	A3C21702	K6391.RR	12/19/2003	06:47
4	GW03-017C-P8	A3C20801	K6392.RR	12/19/2003	07:21
5	GW03-012C-P7	A3C20803	K6393.RR	12/19/2003	07:54
6	GW03-016C-P7	A3C20804	K6394.RR	12/19/2003	08:28
7	GW03-016C-P7	A3C20804MS	K6395.RR	12/19/2003	09:02
8	GW03-016C-P7	A3C20804SD	K6396.RR	12/19/2003	09:36

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ıb Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001542-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

ıtrument ID: HP5973P Calibration Dates(s): 12/11/2003 12/11/2003

ɜated Purge (Y/N): N Calibration Times: 11:58 14:14

: Column: DB-624 ID: 0.25(mm)

ıab File ID: RRF1 = P2679.RR RRF4 = P2678.RR
ɜRF10 = P2677.RR RRF20 = P2676.RR RRF40 = P2675.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
ıcetone	0.023	0.024	0.028	0.029	0.030	0.0270	11.400
ɜenzene	1.200	1.282	1.323	1.406	1.259	1.2940	5.900
ɜromodichloromethane	0.312	0.370	0.362	0.377	0.364	0.3570	7.200
ɜromoform	0.154	0.193	0.198	0.219	0.216	0.1960	13.300
ɜromomethane	0.088	0.080	0.098	0.096	0.096	0.0920	8.100
!-Butanone	0.041	0.041	0.047	0.048	0.050	0.0450	9.200
ıethyl acetate	0.101	0.084	0.095	0.092	0.096	0.0940	7.000
:yclohexane	0.607	0.408	0.647	0.675	0.581	0.5840	18.000
ıethylcyclohexane	0.507	0.357	0.572	0.603	0.514	0.5110	18.500
:arbon Disulfide	1.204	0.897	1.108	1.131	1.050	1.0780	10.700
:arbon Tetrachloride	0.295	0.277	0.369	0.406	0.318	0.3330	16.000
:hlorobenzene	1.067	1.082	1.060	1.097	1.017	1.0650	2.800
:hloroethane	0.115	0.085	0.107	0.101	0.100	0.1020	11.000
:hloroform	0.614	0.586	0.567	0.582	0.542	0.5780	4.500
:hloromethane	0.305	0.217	0.274	0.274	0.296	0.2730	12.400
)ibromochloromethane	0.173	0.218	0.218	0.232	0.225	0.2130	11.000
.,2-Dibromo-3-chloropropane	0.049	0.061	0.061	0.067	0.066	0.0610	11.700
.,2-Dibromoethane	0.163	0.191	0.184	0.193	0.186	0.1830	6.600
.,2-Dichlorobenzene	1.201	1.320	1.289	1.331	1.270	1.2820	4.000
.,3-Dichlorobenzene	1.420	1.600	1.570	1.628	1.535	1.5500	5.200
.,4-Dichlorobenzene	1.495	1.593	1.541	1.586	1.487	1.5400	3.200
)ichlorodifluoromethane	0.385	0.230	0.392	0.391	0.352	0.3500	19.700
.,1-Dichloroethane	0.565	0.595	0.606	0.636	0.583	0.5970	4.400
.,2-Dichloroethane	0.278	0.326	0.313	0.315	0.303	0.3070	5.900
.,1-Dichloroethene	0.260	0.226	0.288	0.310	0.251	0.2670	12.300
:is-1,2-Dichloroethene	0.303	0.344	0.340	0.355	0.326	0.3340	6.000
:rans-1,2-Dichloroethene	0.309	0.309	0.333	0.341	0.295	0.3180	6.000
.,2-Dichloropropane	0.288	0.337	0.315	0.340	0.321	0.3200	6.500
:is-1,3-Dichloropropene	0.335	0.429	0.419	0.444	0.432	0.4120	10.600
.rans-1,3-Dichloropropene	0.327	0.424	0.425	0.437	0.416	0.4060	11.000
:thylbenzene	1.897	1.889	1.980	2.045	1.795	1.9210	5.000
:-Hexanone	0.085	0.096	0.103	0.104	0.096	0.0970	7.800
sopropylbenzene	3.298	3.469	3.801	4.061	3.509	3.6270	8.300
ıethylene chloride	0.391	0.342	0.308	0.314	0.299	0.3310	11.300
-Methyl-2-pentanone	0.140	0.151	0.162	0.159	0.150	0.1530	5.600
:tyrene	0.993	1.140	1.152	1.176	1.070	1.1060	6.700
.,1,2,2-Tetrachloroethane	0.409	0.461	0.439	0.450	0.437	0.4390	4.400

FORM VI VOA

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.b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007069-1

.b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

.b File Id: P2771.RR Calibration Date: 12/14/2003 Time: 15:07

ıtrument ID: HP5973P Init. Calib. Date(s): 12/11/2003 12/11/2003

:ated Purge (Y/N): N Init. Calib. Times: 11:58 14:14

: Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0270	0.0239	0.0100	11.500	100.00
Benzene	1.2940	1.3856	0.0100	-7.100	100.00
Bromodichloromethane	0.3570	0.3239	0.0100	9.300	100.00
Bromoform	0.1960	0.1491	0.1000	23.900	100.00
Bromomethane	0.0920	0.0721	0.0100	21.600	100.00
2-Butanone	0.0450	0.0423	0.0100	6.000	100.00
Methyl acetate	0.0940	0.0745	0.0100	20.700	100.00
Cyclohexane	0.5840	0.6858	0.0100	-17.400	100.00
Methylcyclohexane	0.5110	0.5706	0.0100	-11.700	100.00
Carbon Disulfide	1.0780	1.2351	0.0100	-14.600	100.00
Carbon Tetrachloride	0.3330	0.3995	0.0100	-20.000	100.00
Chlorobenzene	1.0650	1.0643	0.3000	0.100	100.00
Chloroethane	0.1020	0.1186	0.0100	-16.300	100.00
Chloroform	0.5780	0.5869	0.0100	-1.500	20.00
Chloromethane	0.2730	0.3111	0.1000	-14.000	100.00
Dibromochloromethane	0.2130	0.1806	0.0100	15.200	100.00
1,2-Dibromo-3-chloropropane	0.0610	0.0492	0.0100	19.300	100.00
1,2-Dibromoethane	0.1830	0.1459	0.0100	20.300	100.00
1,2-Dichlorobenzene	1.2820	1.1861	0.0100	7.500	100.00
1,3-Dichlorobenzene	1.5500	1.5757	0.0100	-1.600	100.00
1,4-Dichlorobenzene	1.5400	1.5142	0.0100	1.700	100.00
Dichlorodifluoromethane	0.3500	0.3241	0.0100	7.400	100.00
1,1-Dichloroethane	0.5970	0.6649	0.1000	-11.400	100.00
1,2-Dichloroethane	0.3070	0.2819	0.0100	8.200	100.00
1,1-Dichloroethene	0.2670	0.3160	0.0100	-18.400	100.00
cis-1,2-Dichloroethene	0.3340	0.3394	0.0100	-1.600	100.00
trans-1,2-Dichloroethene	0.3180	0.3602	0.0100	-13.300	100.00
1,2-Dichloropropane	0.3200	0.3167	0.0100	1.000	20.00
cis-1,3-Dichloropropene	0.4120	0.3549	0.0100	13.800	100.00
trans-1,3-Dichloropropene	0.4060	0.3536	0.0100	12.900	100.00
Ethylbenzene	1.9210	2.1858	0.0100	-13.800	20.00
2-Hexanone	0.0970	0.0799	0.0100	17.600	100.00
Isopropylbenzene	3.6270	4.2305	0.0100	-16.600	100.00
Methylene chloride	0.3310	0.2974	0.0100	10.200	100.00
4-Methyl-2-pentanone	0.1530	0.1237	0.0100	19.200	100.00
Styrene	1.1060	1.1277	0.0100	-2.000	100.00
1,1,2,2-Tetrachloroethane	0.4390	0.3556	0.3000	19.000	100.00
Tetrachloroethene	0.3500	0.4077	0.0100	-16.500	100.00
Toluene	1.0150	1.1243	0.0100	-10.800	20.00

FORM VII VOA

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.b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007069-1

.b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

.b File Id: P2771.RR Calibration Date: 12/14/2003 Time: 15:07

ıtrument ID: HP5973P Init. Calib. Date(s): 12/11/2003 12/11/2003

ated Purge (Y/N): N Init. Calib. Times: 11:58 14:14

! Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8770	0.8097	0.0100	7.700	100.00
1,1,1-Trichloroethane	0.4560	0.5293	0.0100	-16.100	100.00
1,1,2-Trichloroethane	0.1850	0.1587	0.0100	14.200	100.00
Trichloroethene	0.3160	0.3420	0.0100	-8.200	100.00
Trichlorofluoromethane	0.2530	0.3152	0.0100	-24.600	100.00
Vinyl chloride	0.2040	0.2400	0.0100	-17.600	20.00
Total Xylenes	0.6820	0.7379	0.0100	-8.200	100.00
Methyl tert butyl ether	0.4520	0.3367	0.0100	25.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2670	0.3160	0.0100	-18.400	100.00
1,2-Dichloroethane-D4	0.2210	0.2156	0.0100	2.400	100.00
Toluene-D8	1.3040	1.5411	0.0100	-18.200	100.00
p-Bromofluorobenzene	0.3250	0.3425	0.0100	-5.400	100.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

ab Name: STL Buffalo Contract: _____ Tune ID: A3T0003193

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121201

ab File ID: P2770 BFB Injection Date: 12/14/2003

nstrument ID: HP5973P BFB Injection Time: 14:41

C Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.4		
75	30.0 - 60.0% of mass 95	54.9		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.6		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	62.4		
175	5.0 - 9.0% of mass 174	5.0	(8.0)	1
176	95.0 - 101.0% of mass 174	61.7	(98.8)	1
177	5.0 - 9.0% of mass 176	5.2	(8.4)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007069-1	P2771.RR	12/14/2003	15:07
2	MSB34	A3C10405	P2772.RR	12/14/2003	16:02
3	VBLK34	A3C10404	P2773.RR	12/14/2003	16:35
4	GW03-017B-P5	A3C10401	P2774.RR	12/14/2003	17:22
5	GW03-016A-P3	A3C10402	P2775.RR	12/14/2003	17:55
6	TB2-121103	A3C10403	P2776.RR	12/14/2003	18:29

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b Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001563-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

trument ID: I50K Calibration Dates(s): 12/18/2003 12/18/2003

ated Purge (Y/N): N Calibration Times: 10:31 13:29

' Column: DB-624 ID: 0.53(mm)

ab File ID: RRF1 = K6362.RR RRF4 = K6361.RR
RF10 = K6360.RR RRF20 = K6359.RR RRF40 = K6358.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
cetone	0.020	0.023	0.022	0.024	0.025	0.0230	8.400
enzene	1.153	1.120	1.106	1.099	1.098	1.1150	2.100
romodichloromethane	0.633	0.629	0.666	0.681	0.660	0.6540	3.400
romoform	0.377	0.434	0.503	0.484	0.466	0.4530	10.900
romomethane	0.292	0.345	0.346	0.372	0.338	0.3390	8.600
-Butanone	0.048	0.042	0.048	0.048	0.049	0.0470	5.800
ethyl acetate	0.097	0.115	0.117	0.131	0.138	0.1200	13.300
yclohexane	0.673	0.650	0.593	0.597	0.594	0.6210	6.000
ethylcyclohexane	0.553	0.568	0.561	0.570	0.593	0.5690	2.600
arbon Disulfide	1.015	1.038	0.998	1.011	1.072	1.0270	2.800
arbon Tetrachloride	0.575	0.603	0.602	0.564	0.542	0.5770	4.400
hlorobenzene	1.291	1.159	1.196	1.183	1.099	1.1850	5.900
hloroethane	0.186	0.245	0.235	0.243	0.259	0.2340	12.000
hloroform	0.955	0.840	0.812	0.787	0.749	0.8290	9.400
hloromethane	0.354	0.376	0.365	0.391	0.380	0.3730	3.800
ibromochloromethane	0.476	0.527	0.585	0.592	0.530	0.5420	8.800
,2-Dibromo-3-chloropropane	0.081	0.094	0.116	0.119	0.116	0.1050	16.000
,2-Dibromoethane	0.395	0.403	0.434	0.430	0.392	0.4110	4.800
,2-Dichlorobenzene	1.445	1.385	1.457	1.380	1.351	1.4030	3.200
,3-Dichlorobenzene	1.713	1.745	1.724	1.648	1.663	1.6980	2.400
,4-Dichlorobenzene	1.852	1.806	1.789	1.668	1.619	1.7470	5.600
ichlorodifluoromethane	0.470	0.520	0.467	0.468	0.447	0.4740	5.700
,1-Dichloroethane	0.827	0.803	0.787	0.801	0.791	0.8020	2.000
,2-Dichloroethane	0.368	0.344	0.351	0.344	0.336	0.3480	3.500
,1-Dichloroethene	0.363	0.416	0.398	0.395	0.399	0.3940	4.900
is-1,2-Dichloroethene	0.421	0.426	0.436	0.449	0.416	0.4300	3.100
rans-1,2-Dichloroethene	0.387	0.443	0.432	0.434	0.431	0.4250	5.200
,2-Dichloropropane	0.470	0.431	0.435	0.448	0.436	0.4440	3.600
is-1,3-Dichloropropene	0.581	0.537	0.573	0.567	0.552	0.5620	3.100
rans-1,3-Dichloropropene	0.464	0.491	0.487	0.492	0.458	0.4780	3.400
thylbenzene	1.942	1.896	1.849	1.829	1.825	1.8680	2.700
-Hexanone	0.129	0.115	0.125	0.129	0.124	0.1240	4.800
sopropylbenzene	2.969	3.018	3.095	2.856	2.837	2.9550	3.700
ethylene chloride	0.382	0.342	0.328	0.328	0.328	0.3420	6.900
-Methyl-2-pentanone	0.209	0.188	0.197	0.200	0.187	0.1960	4.700
tyrene	1.000	1.070	1.090	1.102	1.053	1.0630	3.800
,1,2,2-Tetrachloroethane	0.574	0.561	0.593	0.574	0.593	0.5790	2.400

FORM VI VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007179-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: K6570.RR Calibration Date: 12/23/2003 Time: 22:33

ıtrument ID: I50K Init. Calib. Date(s): 12/18/2003 12/18/2003

eated Purge (Y/N): N Init. Calib. Times: 10:31 13:29

C Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0230	0.0319	0.0100	-38.700	100.00
Benzene	1.1150	0.9865	0.0100	11.500	100.00
Bromodichloromethane	0.6540	0.6398	0.0100	2.200	100.00
Bromoform	0.4530	0.4883	0.1000	-7.800	100.00
Bromomethane	0.3390	0.1696	0.0100	50.000	100.00
2-Butanone	0.0470	0.0540	0.0100	-14.900	100.00
Methyl acetate	0.1200	0.1340	0.0100	-11.700	100.00
Cyclohexane	0.6210	0.5727	0.0100	7.800	100.00
Methylcyclohexane	0.5690	0.5072	0.0100	10.900	100.00
Carbon Disulfide	1.0270	0.8638	0.0100	15.900	100.00
Carbon Tetrachloride	0.5770	0.5538	0.0100	4.000	100.00
Chlorobenzene	1.1850	1.1003	0.3000	7.100	100.00
Chloroethane	0.2340	0.2195	0.0100	6.200	100.00
Chloroform	0.8290	0.7829	0.0100	5.600	20.00
Chloromethane	0.3730	0.2870	0.1000	23.000	100.00
Dibromochloromethane	0.5420	0.5566	0.0100	-2.700	100.00
1,2-Dibromo-3-chloropropane	0.1050	0.1214	0.0100	-15.600	100.00
1,2-Dibromoethane	0.4110	0.4283	0.0100	-4.200	100.00
1,2-Dichlorobenzene	1.4030	1.4307	0.0100	-2.000	100.00
1,3-Dichlorobenzene	1.6980	1.5874	0.0100	6.500	100.00
1,4-Dichlorobenzene	1.7470	1.7246	0.0100	1.300	100.00
Dichlorodifluoromethane	0.4740	0.3944	0.0100	16.800	100.00
1,1-Dichloroethane	0.8020	0.7523	0.1000	6.200	100.00
1,2-Dichloroethane	0.3480	0.3589	0.0100	-3.100	100.00
1,1-Dichloroethene	0.3940	0.3594	0.0100	8.800	100.00
cis-1,2-Dichloroethene	0.4300	0.3998	0.0100	7.000	100.00
trans-1,2-Dichloroethene	0.4250	0.3681	0.0100	13.400	100.00
1,2-Dichloropropane	0.4440	0.4147	0.0100	6.600	20.00
cis-1,3-Dichloropropene	0.5620	0.5479	0.0100	2.500	100.00
trans-1,3-Dichloropropene	0.4780	0.4785	0.0100	-0.100	100.00
Ethylbenzene	1.8680	1.7950	0.0100	3.900	20.00
2-Hexanone	0.1240	0.1397	0.0100	-12.700	100.00
Isopropylbenzene	2.9550	2.9188	0.0100	1.200	100.00
Methylene chloride	0.3420	0.3408	0.0100	0.400	100.00
4-Methyl-2-pentanone	0.1960	0.2219	0.0100	-13.200	100.00
Styrene	1.0630	1.0668	0.0100	-0.400	100.00
1,1,2,2-Tetrachloroethane	0.5790	0.6415	0.3000	-10.800	100.00
Tetrachloroethene	0.8220	0.7432	0.0100	9.600	100.00
Toluene	0.9670	0.8931	0.0100	7.600	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003289

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: K6569 BFB Injection Date: 12/23/2003

Instrument ID: I50K BFB Injection Time: 22:01

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	18.8
75	30.0 - 60.0% of mass 95	43.4
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.1 (0.1) 1
174	50 - 120 % of mass 95	64.5
175	5.0 - 9.0% of mass 174	4.5 (7.0) 1
176	95.0 - 101.0% of mass 174	63.3 (98.2) 1
177	5.0 - 9.0% of mass 176	3.7 (5.9) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007179-1	K6570.RR	12/23/2003	22:33
2	MSB32	A3C29412	K6572.RR	12/24/2003	00:04
3	VBLK32	A3C29411	K6574.RR	12/24/2003	01:14
4	GW03-017A-P3	A3C35302	K6575.RR	12/24/2003	01:49
5	GW03-017A-P1	A3C29401	K6576.RR	12/24/2003	02:23
6	GW03-014A-P3	A3C37001	K6579.RR	12/24/2003	04:09

FORM V VOA

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ab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001564-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ntrument ID: I50M Calibration Dates(s): 12/18/2003 12/18/2003

eated Purge (Y/N): N Calibration Times: 10:54 13:18

C Column: DB-624 ID: 0.53(mm)

Lab File ID: RRF1 = M6816.RR RRF4 = M6815.RR
RRF10 = M6814.RR RRF20 = M6813.RR RRF40 = M6812.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Chloromethane	0.643	0.578	0.506	0.522	0.423	0.5340	15.400
Bromomethane	0.214	0.197	0.173	0.165	0.130	0.1760	18.200
Vinyl chloride	0.478	0.437	0.381	0.395	0.367	0.4120	11.100
Chloroethane	0.251	0.245	0.214	0.216	0.199	0.2250	9.800
Methylene chloride	0.437	0.334	0.311	0.303	0.277	0.3320	18.600
Acetone	0.057	0.044	0.042	0.039	0.034	0.0430	19.500
Carbon Disulfide	1.220	1.148	1.032	1.003	0.971	1.0750	9.800
1,1-Dichloroethene	0.305	0.290	0.273	0.264	0.248	0.2760	8.000
1,1-Dichloroethane	0.712	0.658	0.628	0.627	0.590	0.6430	7.000
cis-1,2-Dichloroethene	0.410	0.383	0.363	0.350	0.322	0.3660	9.000
trans-1,2-Dichloroethene	0.363	0.346	0.322	0.310	0.290	0.3260	8.800
Chloroform	0.777	0.621	0.595	0.572	0.534	0.6200	15.100
1,2-Dichloroethane	0.369	0.331	0.326	0.325	0.302	0.3310	7.400
2-Butanone	0.102	0.083	0.083	0.079	0.070	0.0830	14.000
1,1,1-Trichloroethane	0.502	0.457	0.450	0.432	0.410	0.4500	7.600
Carbon Tetrachloride	0.399	0.372	0.365	0.367	0.344	0.3690	5.300
Bromodichloromethane	0.400	0.402	0.403	0.409	0.387	0.4000	2.100
1,2-Dichloropropane	0.412	0.397	0.387	0.385	0.362	0.3890	4.800
cis-1,3-Dichloropropene	0.531	0.497	0.515	0.520	0.492	0.5110	3.200
Trichloroethene	0.420	0.364	0.351	0.345	0.333	0.3630	9.400
Dibromochloromethane	0.233	0.234	0.254	0.256	0.237	0.2430	4.600
1,1,2-Trichloroethane	0.194	0.179	0.193	0.186	0.170	0.1850	5.500
Benzene	1.640	1.443	1.370	1.325	1.265	1.4090	10.300
trans-1,3-Dichloropropene	0.373	0.382	0.390	0.392	0.365	0.3800	3.000
Bromoform	0.239	0.236	0.262	0.261	0.263	0.2520	5.300
4-Methyl-2-pentanone	0.270	0.225	0.218	0.211	0.186	0.2220	13.800
2-Hexanone	0.192	0.156	0.158	0.151	0.134	0.1580	13.300
Tetrachloroethene	0.482	0.434	0.401	0.381	0.356	0.4110	12.000
1,1,2,2-Tetrachloroethane	0.574	0.506	0.505	0.499	0.473	0.5110	7.400
Toluene	1.203	1.034	0.945	0.906	0.851	0.9880	13.900
Chlorobenzene	1.339	1.067	0.997	0.966	0.884	1.0510	16.600
Ethylbenzene	2.161	1.926	1.827	1.740	1.634	1.8580	10.800
Styrene	1.404	1.166	1.123	1.109	1.016	1.1630	12.500
Total Xylenes	0.871	0.725	0.716	0.675	0.624	0.7220	12.800
1,1,2-Trichloro-1,2,2-trifl	0.328	0.291	0.258	0.243	0.230	0.2700	14.600
1,2,4-Trichlorobenzene	1.318	1.081	1.007	0.975	0.920	1.0600	14.700
1,2-Dibromo-3-chloropropane	0.080	0.065	0.068	0.071	0.069	0.0710	8.100

FORM VI VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007133-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: M6875.RR Calibration Date: 12/19/2003 Time: 21:14

ıtrument ID: I50M _____ Init. Calib. Date(s): 12/18/2003 12/18/2003

eated Purge (Y/N): N Init. Calib. Times: 10:54 13:18

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0430	0.0317	0.0100	26.300	100.00
Benzene	1.4090	1.2578	0.0100	10.700	100.00
Bromodichloromethane	0.4000	0.3348	0.0100	16.300	100.00
Bromoform	0.2520	0.1761	0.1000	30.100	100.00
Bromomethane	0.1760	0.1568	0.0100	10.900	100.00
2-Butanone	0.0830	0.0605	0.0100	27.100	100.00
Methyl acetate	0.1590	0.1107	0.0100	30.400	100.00
Cyclohexane	0.6990	0.6202	0.0100	11.300	100.00
Methylcyclohexane	0.6320	0.5657	0.0100	10.500	100.00
Carbon Disulfide	1.0750	1.0211	0.0100	5.000	100.00
Carbon Tetrachloride	0.3690	0.3309	0.0100	10.300	100.00
Chlorobenzene	1.0510	0.8683	0.3000	17.400	100.00
Chloroethane	0.2250	0.2364	0.0100	-5.100	100.00
Chloroform	0.6200	0.5212	0.0100	15.900	20.00
Chloromethane	0.5340	0.4512	0.1000	15.500	100.00
Dibromochloromethane	0.2430	0.1862	0.0100	23.400	100.00
1,2-Dibromo-3-chloropropane	0.0710	0.0461	0.0100	35.100	100.00
1,2-Dibromoethane	0.1990	0.1499	0.0100	24.700	100.00
1,2-Dichlorobenzene	1.4110	1.1559	0.0100	18.100	100.00
1,3-Dichlorobenzene	1.6680	1.4205	0.0100	14.800	100.00
1,4-Dichlorobenzene	1.7100	1.4659	0.0100	14.300	100.00
Dichlorodifluoromethane	0.2960	0.2807	0.0100	5.200	100.00
1,1-Dichloroethane	0.6430	0.5816	0.1000	9.500	100.00
1,2-Dichloroethane	0.3310	0.2658	0.0100	19.700	100.00
1,1-Dichloroethene	0.2760	0.2651	0.0100	3.900	100.00
cis-1,2-Dichloroethene	0.3660	0.3203	0.0100	12.500	100.00
trans-1,2-Dichloroethene	0.3260	0.3148	0.0100	3.400	100.00
1,2-Dichloropropane	0.3890	0.3255	0.0100	16.300	20.00
cis-1,3-Dichloropropene	0.5110	0.4033	0.0100	21.100	100.00
trans-1,3-Dichloropropene	0.3800	0.2925	0.0100	23.000	100.00
Ethylbenzene	1.8580	1.6458	0.0100	11.400	20.00
2-Hexanone	0.1580	0.1091	0.0100	30.900	100.00
Isopropylbenzene	3.6520	3.4224	0.0100	6.300	100.00
Methylene chloride	0.3320	0.2747	0.0100	17.200	100.00
4-Methyl-2-pentanone	0.2220	0.1536	0.0100	30.800	100.00
Styrene	1.1630	0.9684	0.0100	16.700	100.00
1,1,2,2-Tetrachloroethane	0.5110	0.3924	0.3000	23.200	100.00
Tetrachloroethene	0.4110	0.3630	0.0100	11.700	100.00
Toluene	0.9880	0.8841	0.0100	10.500	20.00

FORM VII VOA

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ıb Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007133-1

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ıb File Id: M6875.RR Calibration Date: 12/19/2003 Time: 21:14

ıtrument ID: I50M Init. Calib. Date(s): 12/18/2003 12/18/2003

eated Purge (Y/N): N Init. Calib. Times: 10:54 13:18

: Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.0600	0.7556	0.0100	28.700	100.00
1,1,1-Trichloroethane	0.4500	0.3979	0.0100	11.600	100.00
1,1,2-Trichloroethane	0.1850	0.1510	0.0100	18.400	100.00
Trichloroethene	0.3630	0.3187	0.0100	12.200	100.00
Trichlorofluoromethane	0.3200	0.3163	0.0100	1.200	100.00
Vinyl chloride	0.4120	0.4095	0.0100	0.600	20.00
Total Xylenes	0.7220	0.6314	0.0100	12.500	100.00
Methyl tert butyl ether	0.5460	0.3937	0.0100	27.900	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2700	0.2674	0.0100	1.000	100.00
1,2-Dichloroethane-D4	0.2570	0.2246	0.0100	12.600	100.00
Toluene-D8	1.3360	1.3324	0.0100	0.300	100.00
p-Bromofluorobenzene	0.4070	0.3632	0.0100	10.800	100.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003246

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: M6874 BFB Injection Date: 12/19/2003

Instrument ID: I50M BFB Injection Time: 20:57

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	19.9
75	30.0 - 60.0% of mass 95	44.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50 - 120 % of mass 95	69.0
175	5.0 - 9.0% of mass 174	4.6 (6.6) 1
176	95.0 - 101.0% of mass 174	66.2 (95.9) 1
177	5.0 - 9.0% of mass 176	3.6 (5.4) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007133-1	M6875.RR	12/19/2003	21:14
2	MSB40	A3C25511	M6876.RR	12/19/2003	22:11
3	VBLK40	A3C25510	M6877.RR	12/19/2003	22:39
4	TB1-121603	A3C25505	M6878.RR	12/19/2003	23:08
5	TB2-121603	A3C25506	M6879.RR	12/19/2003	23:37
6	TB3-121603	A3C25507	M6880.RR	12/20/2003	00:06

FORM V VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007134-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: M6898.RR Calibration Date: 12/22/2003 Time: 12:36

ıtrument ID: I50M Init. Calib. Date(s): 12/18/2003 12/18/2003

eated Purge (Y/N): N Init. Calib. Times: 10:54 13:18

: Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0430	0.0401	0.0100	6.700	100.00
Benzene	1.4090	1.2916	0.0100	8.300	100.00
Bromodichloromethane	0.4000	0.3718	0.0100	7.000	100.00
Bromoform	0.2520	0.2464	0.1000	2.200	100.00
Bromomethane	0.1760	0.1901	0.0100	-8.000	100.00
2-Butanone	0.0830	0.0790	0.0100	4.800	100.00
Methyl acetate	0.1590	0.1438	0.0100	9.600	100.00
Cyclohexane	0.6990	0.6432	0.0100	8.000	100.00
Methylcyclohexane	0.6320	0.5885	0.0100	6.900	100.00
Carbon Disulfide	1.0750	1.0019	0.0100	6.800	100.00
Carbon Tetrachloride	0.3690	0.3203	0.0100	13.200	100.00
Chlorobenzene	1.0510	0.9339	0.3000	11.100	100.00
Chloroethane	0.2250	0.2227	0.0100	1.000	100.00
Chloroform	0.6200	0.5435	0.0100	12.300	20.00
Chloromethane	0.5340	0.4764	0.1000	10.800	100.00
Dibromochloromethane	0.2430	0.2373	0.0100	2.300	100.00
1,2-Dibromo-3-chloropropane	0.0710	0.0650	0.0100	8.400	100.00
1,2-Dibromoethane	0.1990	0.1958	0.0100	1.600	100.00
1,2-Dichlorobenzene	1.4110	1.2949	0.0100	8.200	100.00
1,3-Dichlorobenzene	1.6680	1.5218	0.0100	8.800	100.00
1,4-Dichlorobenzene	1.7100	1.5940	0.0100	6.800	100.00
Dichlorodifluoromethane	0.2960	0.2385	0.0100	19.400	100.00
1,1-Dichloroethane	0.6430	0.5783	0.1000	10.100	100.00
1,2-Dichloroethane	0.3310	0.3031	0.0100	8.400	100.00
1,1-Dichloroethene	0.2760	0.2529	0.0100	8.400	100.00
cis-1,2-Dichloroethene	0.3660	0.3350	0.0100	8.500	100.00
trans-1,2-Dichloroethene	0.3260	0.3128	0.0100	4.000	100.00
1,2-Dichloropropane	0.3890	0.3644	0.0100	6.300	20.00
cis-1,3-Dichloropropene	0.5110	0.4675	0.0100	8.500	100.00
trans-1,3-Dichloropropene	0.3800	0.3761	0.0100	1.000	100.00
Ethylbenzene	1.8580	1.6966	0.0100	8.700	20.00
2-Hexanone	0.1580	0.1642	0.0100	-3.900	100.00
Isopropylbenzene	3.6520	3.3766	0.0100	7.500	100.00
Methylene chloride	0.3320	0.2914	0.0100	12.200	100.00
4-Methyl-2-pentanone	0.2220	0.2190	0.0100	1.400	100.00
Styrene	1.1630	1.0592	0.0100	8.900	100.00
1,1,2,2-Tetrachloroethane	0.5110	0.5298	0.3000	-3.700	100.00
Tetrachloroethene	0.4110	0.3843	0.0100	6.500	100.00
Toluene	0.9880	0.9257	0.0100	6.300	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003247

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: M6897 BFB Injection Date: 12/22/2003

Instrument ID: I50M BFB Injection Time: 12:10

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.7		
75	30.0 - 60.0% of mass 95	41.6		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.3		
173	Less than 2.0% of mass 174	0.3	(0.4)	1
174	50 - 120 % of mass 95	75.8		
175	5.0 - 9.0% of mass 174	5.6	(7.4)	1
176	95.0 - 101.0% of mass 174	72.2	(95.2)	1
177	5.0 - 9.0% of mass 176	5.0	(6.9)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007134-1	M6898.RR	12/22/2003	12:36
2	MSB41	A3C38306	M6899.RR	12/22/2003	13:21
3	VBLK41	A3C38305	M6901.RR	12/22/2003	14:19
4	TB2-121903	A3C38304	M6912.RR	12/22/2003	19:41
5	TB1-121903	A3C38303	M6913.RR	12/22/2003	20:10

FORM V VOA

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.b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007161-1

.b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

.b File Id: M6917.RR Calibration Date: 12/22/2003 Time: 21:57

.trument ID: I50M Init. Calib. Date(s): 12/18/2003 12/18/2003

.ated Purge (Y/N): N Init. Calib. Times: 10:54 13:18

! Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0430	0.0414	0.0100	3.700	100.00
Benzene	1.4090	1.3484	0.0100	4.300	100.00
Bromodichloromethane	0.4000	0.3846	0.0100	3.800	100.00
Bromoform	0.2520	0.2518	0.1000	0.100	100.00
Bromomethane	0.1760	0.1623	0.0100	7.800	100.00
2-Butanone	0.0830	0.0825	0.0100	0.600	100.00
Methyl acetate	0.1590	0.1475	0.0100	7.200	100.00
Cyclohexane	0.6990	0.6537	0.0100	6.500	100.00
Methylcyclohexane	0.6320	0.5980	0.0100	5.400	100.00
Carbon Disulfide	1.0750	0.9375	0.0100	12.800	100.00
Carbon Tetrachloride	0.3690	0.3362	0.0100	8.900	100.00
Chlorobenzene	1.0510	0.9680	0.3000	7.900	100.00
Chloroethane	0.2250	0.1965	0.0100	12.700	100.00
Chloroform	0.6200	0.5538	0.0100	10.700	20.00
Chloromethane	0.5340	0.5113	0.1000	4.200	100.00
Dibromochloromethane	0.2430	0.2403	0.0100	1.100	100.00
1,2-Dibromo-3-chloropropane	0.0710	0.0660	0.0100	7.000	100.00
1,2-Dibromoethane	0.1990	0.2065	0.0100	-3.800	100.00
1,2-Dichlorobenzene	1.4110	1.2824	0.0100	9.100	100.00
1,3-Dichlorobenzene	1.6680	1.5164	0.0100	9.100	100.00
1,4-Dichlorobenzene	1.7100	1.5650	0.0100	8.500	100.00
Dichlorodifluoromethane	0.2960	0.2300	0.0100	22.300	100.00
1,1-Dichloroethane	0.6430	0.5867	0.1000	8.800	100.00
1,2-Dichloroethane	0.3310	0.3101	0.0100	6.300	100.00
1,1-Dichloroethene	0.2760	0.2675	0.0100	3.100	100.00
cis-1,2-Dichloroethene	0.3660	0.3494	0.0100	4.500	100.00
trans-1,2-Dichloroethene	0.3260	0.3228	0.0100	1.000	100.00
1,2-Dichloropropane	0.3890	0.3726	0.0100	4.200	20.00
cis-1,3-Dichloropropene	0.5110	0.4721	0.0100	7.600	100.00
trans-1,3-Dichloropropene	0.3800	0.3827	0.0100	-0.700	100.00
Ethylbenzene	1.8580	1.7177	0.0100	7.600	20.00
2-Hexanone	0.1580	0.1648	0.0100	-4.300	100.00
Isopropylbenzene	3.6520	3.4303	0.0100	6.100	100.00
Methylene chloride	0.3320	0.2946	0.0100	11.300	100.00
4-Methyl-2-pentanone	0.2220	0.2332	0.0100	-5.000	100.00
Styrene	1.1630	1.0800	0.0100	7.100	100.00
1,1,2,2-Tetrachloroethane	0.5110	0.5610	0.3000	-9.800	100.00
Tetrachloroethene	0.4110	0.3888	0.0100	5.400	100.00
Toluene	0.9880	0.9410	0.0100	4.800	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003264

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: M6916 BFB Injection Date: 12/22/2003

Instrument ID: I50M BFB Injection Time: 21:40

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.5		
75	30.0 - 60.0% of mass 95	41.3		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.4		
173	Less than 2.0% of mass 174	0.6	(0.9)	1
174	50 - 120 % of mass 95	71.5		
175	5.0 - 9.0% of mass 174	4.8	(6.7)	1
176	95.0 - 101.0% of mass 174	69.1	(96.6)	1
177	5.0 - 9.0% of mass 176	4.4	(6.4)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007161-1	M6917.RR	12/22/2003	21:57
2	MSB42	A3C38308	M6919.RR	12/22/2003	23:10
3	VBLK42	A3C38307	M6921.RR	12/23/2003	00:09
4	GW03-012A-P3	A3C38301	M6935.RR	12/23/2003	07:00
5	GW03-010A-P3	A3C38302	M6936.RR	12/23/2003	07:30

FORM V VOA

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ab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001565-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ıtrument ID: HP5973N Calibration Dates(s): 12/19/2003 12/19/2003

eated Purge (Y/N): N Calibration Times: 20:20 22:36

: Column: DB-624 ID: 0.25(mm)

Lab File ID: RRF1 = N4019.RR RRF4 = N4018.RR
RRF10 = N4017.RR RRF20 = N4016.RR RRF40 = N4015.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Chloromethane	0.280	0.259	0.322	0.294	0.276	0.2860	8.200
Bromomethane	0.095	0.072	0.105	0.100	0.106	0.0950	14.500
Vinyl chloride	0.227	0.223	0.259	0.250	0.249	0.2420	6.600
Chloroethane	0.119	0.108	0.131	0.124	0.123	0.1210	7.100
Methylene chloride	0.379	0.326	0.363	0.341	0.335	0.3490	6.200
Acetone	0.029	0.016	0.020	0.019	0.018	0.0200	23.300
Carbon Disulfide	1.198	1.173	1.377	1.322	1.238	1.2620	6.800
1,1-Dichloroethene	0.136	0.141	0.162	0.159	0.158	0.1510	8.000
1,1-Dichloroethane	0.640	0.642	0.697	0.695	0.695	0.6740	4.400
cis-1,2-Dichloroethene	0.363	0.365	0.408	0.399	0.388	0.3840	5.200
trans-1,2-Dichloroethene	0.369	0.372	0.410	0.400	0.397	0.3890	4.600
Methyl acetate	0.054	0.047	0.097	0.075	0.111	0.0770	35.400
Cyclohexane	0.604	0.642	0.712	0.690	0.697	0.6690	6.700
Methylcyclohexane	0.606	0.630	0.689	0.654	0.626	0.6410	5.000
Chloroform	0.819	0.669	0.723	0.718	0.712	0.7280	7.600
1,2-Dichloroethane	0.358	0.333	0.402	0.390	0.369	0.3700	7.300
2-Butanone	0.048	0.043	0.053	0.051	0.045	0.0480	8.500
1,1,1-Trichloroethane	0.585	0.582	0.699	0.690	0.706	0.6520	9.700
Carbon Tetrachloride	0.370	0.398	0.525	0.526	0.543	0.4730	17.300
Bromodichloromethane	0.345	0.362	0.436	0.443	0.446	0.4070	12.000
1,2-Dichloropropane	0.312	0.307	0.342	0.325	0.300	0.3170	5.300
cis-1,3-Dichloropropene	0.373	0.401	0.497	0.492	0.488	0.4500	13.100
Trichloroethene	0.379	0.379	0.432	0.417	0.410	0.4030	5.900
Dibromochloromethane	0.162	0.186	0.235	0.247	0.258	0.2170	19.200
1,1,2-Trichloroethane	0.158	0.162	0.185	0.184	0.187	0.1750	8.000
Benzene	1.426	1.439	1.615	1.557	1.492	1.5060	5.300
trans-1,3-Dichloropropene	0.321	0.349	0.450	0.454	0.467	0.4080	16.600
Bromoform	0.156	0.169	0.218	0.241	0.265	0.2100	22.000
4-Methyl-2-pentanone	0.127	0.135	0.152	0.150	0.151	0.1430	7.900
2-Hexanone	0.078	0.088	0.099	0.097	0.094	0.0910	9.400
Tetrachloroethene	0.455	0.446	0.495	0.481	0.462	0.4680	4.300
1,1,2,2-Tetrachloroethane	0.377	0.375	0.428	0.433	0.446	0.4120	8.100
Toluene	1.161	1.092	1.220	1.181	1.155	1.1620	4.000
Chlorobenzene	1.079	1.059	1.191	1.152	1.118	1.1200	4.800
Ethylbenzene	2.043	2.100	2.397	2.318	2.243	2.2200	6.600
Styrene	1.097	1.132	1.287	1.208	1.108	1.1660	6.900
Total Xylenes	0.745	0.745	0.834	0.784	0.714	0.7640	6.000

FORM VI VOA

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ab Name: STL Buffalo . Contract: _____ Lab Samp ID: A3C0007132-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: N4022.RR Calibration Date: 12/20/2003 Time: 10:05

ntrument ID: HP5973N Init. Calib. Date(s): 12/19/2003 12/19/2003

eated Purge (Y/N): N Init. Calib. Times: 20:20 22:36

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.2860	0.2505	0.1000	12.400	100.00
Bromomethane	0.0950	0.0768	0.0100	19.200	100.00
Vinyl chloride	0.2420	0.2484	0.0100	-2.600	20.00
Chloroethane	0.1210	0.1229	0.0100	-1.600	100.00
Methylene chloride	0.3490	0.3493	0.0100	-0.100	100.00
Acetone	0.0200	0.0182	0.0100	9.000	100.00
Carbon Disulfide	1.2620	1.2425	0.0100	1.500	100.00
1,1-Dichloroethene	0.1510	0.1651	0.0100	-9.300	100.00
1,1-Dichloroethane	0.6740	0.7284	0.1000	-8.100	100.00
cis-1,2-Dichloroethene	0.3840	0.4200	0.0100	-9.400	100.00
trans-1,2-Dichloroethene	0.3890	0.4179	0.0100	-7.400	100.00
Chloroform	0.7280	0.7458	0.0100	-2.400	20.00
1,2-Dichloroethane	0.3700	0.3839	0.0100	-3.800	100.00
2-Butanone	0.0480	0.0454	0.0100	5.400	100.00
1,1,1-Trichloroethane	0.6520	0.6916	0.0100	-6.100	100.00
Carbon Tetrachloride	0.4730	0.4872	0.0100	-3.000	100.00
Bromodichloromethane	0.4070	0.4203	0.0100	-3.300	100.00
1,2-Dichloropropane	0.3170	0.3385	0.0100	-6.800	20.00
cis-1,3-Dichloropropene	0.4500	0.4702	0.0100	-4.500	100.00
Trichloroethene	0.4030	0.4286	0.0100	-6.400	100.00
Dibromochloromethane	0.2170	0.2219	0.0100	-2.200	100.00
1,1,2-Trichloroethane	0.1750	0.1778	0.0100	-1.600	100.00
Benzene	1.5060	1.6223	0.0100	-7.700	100.00
trans-1,3-Dichloropropene	0.4080	0.4140	0.0100	-1.500	100.00
Bromoform	0.2100	0.2069	0.1000	1.500	100.00
4-Methyl-2-pentanone	0.1430	0.1363	0.0100	4.700	100.00
2-Hexanone	0.0910	0.0890	0.0100	2.200	100.00
Tetrachloroethene	0.4680	0.5118	0.0100	-9.400	100.00
1,1,2,2-Tetrachloroethane	0.4120	0.4191	0.3000	-1.700	100.00
Toluene	1.1620	1.2311	0.0100	-5.900	20.00
Chlorobenzene	1.1200	1.1801	0.3000	-5.400	100.00
Ethylbenzene	2.2200	2.4146	0.0100	-8.800	20.00
Styrene	1.1660	1.2749	0.0100	-9.300	100.00
Total Xylenes	0.7640	0.8379	0.0100	-9.700	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.1540	0.1590	0.0100	-3.200	100.00
1,2,4-Trichlorobenzene	1.1040	1.1569	0.0100	-4.800	100.00
1,2-Dibromo-3-chloropropane	0.0650	0.0638	0.0100	1.800	100.00
1,2-Dibromoethane	0.1900	0.1933	0.0100	-1.700	100.00
1,2-Dichlorobenzene	1.4510	1.5457	0.0100	-6.500	100.00

FORM VII VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007132-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: N4022.RR Calibration Date: 12/20/2003 Time: 10:05

ntrument ID: HP5973N Init. Calib. Date(s): 12/19/2003 12/19/2003

eated Purge (Y/N): N Init. Calib. Times: 20:20 22:36

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,3-Dichlorobenzene	1.7200	1.8781	0.0100	-9.200	100.00
1,4-Dichlorobenzene	1.7440	1.8545	0.0100	-6.300	100.00
Cyclohexane	0.6690	0.6866	0.0100	-2.600	100.00
Dichlorodifluoromethane	0.4570	0.4686	0.0100	-2.500	100.00
Methyl acetate	0.0770	0.0428	0.0100	44.400	100.00
Trichlorofluoromethane	0.3740	0.3950	0.0100	-5.600	100.00
Methyl tert butyl ether	0.5020	0.4860	0.0100	3.200	100.00
Isopropylbenzene	4.4360	4.8991	0.0100	-10.400	100.00
Methylcyclohexane	0.6410	0.6669	0.0100	-4.000	100.00
Toluene-D8	1.5500	1.4701	0.0100	5.200	100.00
p-Bromofluorobenzene	0.4100	0.3759	0.0100	8.300	100.00
1,2-Dichloroethane-D4	0.2960	0.2668	0.0100	9.900	100.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003245

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: N4021 BFB Injection Date: 12/20/2003

Instrument ID: HP5973N BFB Injection Time: 09:41

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.0		
75	30.0 - 60.0% of mass 95	47.1		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.4		
173	Less than 2.0% of mass 174	0.2	(0.3)	1
174	50 - 120 % of mass 95	68.7		
175	5.0 - 9.0% of mass 174	5.4	(7.9)	1
176	95.0 - 101.0% of mass 174	68.7	(100.0)	1
177	5.0 - 9.0% of mass 176	4.3	(6.3)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007132-1	N4022.RR	12/20/2003	10:05
2	MSB08	A3C25509	N4023.RR	12/20/2003	10:48
3	VBLK08	A3C25508	N4024.RR	12/20/2003	11:19
4	TB4-121603	A3C25902	N4025.RR	12/20/2003	11:50
5	GW03-012B-P5	A3C25501	N4032.RR	12/20/2003	15:29
6	GW03-009A-P3	A3C25502	N4033.RR	12/20/2003	16:00
7	GW03-012B-P6	A3C25503	N4034.RR	12/20/2003	16:31
8	GW03-016A-P2	A3C25504	N4035.RR	12/20/2003	17:02
9	GW03-016A-P2	A3C25504MS	N4036.RR	12/20/2003	17:33
10	GW03-016A-P2	A3C25504SD	N4037.RR	12/20/2003	18:04
11	GW03-012A-P2	A3C25901	N4038.RR	12/20/2003	18:35

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ab Name: STL Buffalo Contract: _____ Lab Sample ID: A3I0001557-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ntrument ID: HP5973Q Calibration Dates(s): 12/17/2003 12/17/2003

eated Purge (Y/N): N Calibration Times: 23:12 23:44

C Column: DB-624 ID: 0.25(mm)

Lab File ID: RRF1 = Q4465.RR RRF4 = Q4464.RR
RRF10 = Q4463.RR RRF20 = Q4462.RR RRF40 = Q4461.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Acetone	0.052	0.043	0.043	0.043	0.041	0.0440	10.100
Benzene	1.800	1.696	1.616	1.560	1.394	1.6130	9.400
Bromodichloromethane	0.498	0.472	0.464	0.468	0.459	0.4720	3.200
Bromoform	0.192	0.194	0.204	0.216	0.210	0.2030	5.000
Bromomethane	0.210	0.183	0.166	0.160	0.153	0.1750	13.100
2-Butanone	0.077	0.069	0.069	0.070	0.067	0.0700	5.500
Methyl acetate	0.155	0.136	0.133	0.135	0.130	0.1380	7.200
Cyclohexane	0.925	0.881	0.835	0.848	0.806	0.8590	5.300
Methylcyclohexane	0.759	0.714	0.656	0.648	0.582	0.6720	10.000
Carbon Disulfide	1.332	1.203	1.138	1.139	1.073	1.1770	8.300
Carbon Tetrachloride	0.615	0.589	0.580	0.584	0.577	0.5890	2.600
Chlorobenzene	2.181	2.011	1.929	1.858	1.719	1.9400	8.900
Chloroethane	0.266	0.251	0.233	0.232	0.284	0.2530	8.800
Chloroform	0.952	0.797	0.738	0.719	0.693	0.7800	13.300
Chloromethane	0.461	0.403	0.381	0.364	0.375	0.3970	9.700
Dibromochloromethane	0.410	0.406	0.409	0.409	0.409	0.4090	0.400
1,2-Dibromo-3-chloropropane	0.069	0.064	0.066	0.071	0.067	0.0670	3.700
1,2-Dibromoethane	0.328	0.310	0.308	0.306	0.299	0.3100	3.500
1,2-Dichlorobenzene	1.640	1.452	1.379	1.343	1.252	1.4130	10.300
1,3-Dichlorobenzene	2.084	1.827	1.742	1.667	1.547	1.7730	11.400
1,4-Dichlorobenzene	1.951	1.774	1.655	1.611	1.498	1.6980	10.200
Dichlorodifluoromethane	0.514	0.454	0.427	0.430	0.429	0.4510	8.200
1,1-Dichloroethane	0.875	0.816	0.782	0.766	0.734	0.7950	6.800
1,2-Dichloroethane	0.488	0.445	0.436	0.432	0.423	0.4450	5.700
1,1-Dichloroethene	0.381	0.362	0.342	0.332	0.317	0.3470	7.200
cis-1,2-Dichloroethene	0.441	0.418	0.397	0.386	0.360	0.4000	7.800
trans-1,2-Dichloroethene	0.443	0.412	0.395	0.384	0.368	0.4000	7.200
1,2-Dichloropropane	0.439	0.404	0.387	0.375	0.346	0.3900	8.800
cis-1,3-Dichloropropene	0.523	0.520	0.517	0.515	0.502	0.5150	1.600
trans-1,3-Dichloropropene	0.785	0.773	0.781	0.789	0.776	0.7810	0.800
Ethylbenzene	4.135	3.992	3.793	3.577	3.083	3.7160	11.100
2-Hexanone	0.203	0.206	0.207	0.208	0.192	0.2030	3.100
Isopropylbenzene	4.914	4.796	4.594	4.345	3.884	4.5070	9.100
Methylene chloride	0.454	0.364	0.333	0.320	0.309	0.3560	16.400
4-Methyl-2-pentanone	0.339	0.321	0.320	0.326	0.305	0.3220	3.700
Styrene	2.052	2.055	1.967	1.895	1.691	1.9320	7.800
1,1,2,2-Tetrachloroethane	0.465	0.436	0.432	0.424	0.412	0.4340	4.500

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007131-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: Q4542.RR Calibration Date: 12/20/2003 Time: 00:54

ntrument ID: HP5973Q Init. Calib. Date(s): 12/17/2003 12/17/2003

eated Purge (Y/N): N Init. Calib. Times: 23:12 23:44

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0440	0.0515	0.0100	-17.000	100.00
Benzene	1.6130	1.7326	0.0100	-7.400	100.00
Bromodichloromethane	0.4720	0.5010	0.0100	-6.100	100.00
Bromoform	0.2030	0.1952	0.1000	3.800	100.00
Bromomethane	0.1750	0.0962	0.0100	45.000	100.00
2-Butanone	0.0700	0.0749	0.0100	-7.000	100.00
Methyl acetate	0.1380	0.1500	0.0100	-8.700	100.00
Cyclohexane	0.8590	0.7680	0.0100	10.600	100.00
Methylcyclohexane	0.6720	0.5875	0.0100	12.600	100.00
Carbon Disulfide	1.1770	1.1708	0.0100	0.500	100.00
Carbon Tetrachloride	0.5890	0.6197	0.0100	-5.200	100.00
Chlorobenzene	1.9400	1.9671	0.3000	-1.400	100.00
Chloroethane	0.2530	0.3261	0.0100	-28.900	100.00
Chloroform	0.7800	0.8126	0.0100	-4.200	20.00
Chloromethane	0.3970	0.3832	0.1000	3.500	100.00
Dibromochloromethane	0.4090	0.4137	0.0100	-1.200	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0656	0.0100	2.100	100.00
1,2-Dibromoethane	0.3100	0.3133	0.0100	-1.100	100.00
1,2-Dichlorobenzene	1.4130	1.4429	0.0100	-2.100	100.00
1,3-Dichlorobenzene	1.7730	1.8256	0.0100	-3.000	100.00
1,4-Dichlorobenzene	1.6980	1.7309	0.0100	-1.900	100.00
Dichlorodifluoromethane	0.4510	0.4848	0.0100	-7.500	100.00
1,1-Dichloroethane	0.7950	0.8421	0.1000	-5.900	100.00
1,2-Dichloroethane	0.4450	0.4888	0.0100	-9.800	100.00
1,1-Dichloroethene	0.3470	0.3690	0.0100	-6.300	100.00
cis-1,2-Dichloroethene	0.4000	0.4351	0.0100	-8.800	100.00
trans-1,2-Dichloroethene	0.4000	0.4336	0.0100	-8.400	100.00
1,2-Dichloropropane	0.3900	0.4099	0.0100	-5.100	20.00
cis-1,3-Dichloropropene	0.5150	0.5377	0.0100	-4.400	100.00
trans-1,3-Dichloropropene	0.7810	0.8075	0.0100	-3.400	100.00
Ethylbenzene	3.7160	3.9308	0.0100	-5.800	20.00
2-Hexanone	0.2030	0.2199	0.0100	-8.300	100.00
Isopropylbenzene	4.5070	4.6409	0.0100	-3.000	100.00
Methylene chloride	0.3560	0.3625	0.0100	-1.800	100.00
4-Methyl-2-pentanone	0.3220	0.3413	0.0100	-6.000	100.00
Styrene	1.9320	2.0210	0.0100	-4.600	100.00
1,1,2,2-Tetrachloroethane	0.4340	0.4576	0.3000	-5.400	100.00
Tetrachloroethene	0.7760	0.7478	0.0100	3.600	100.00
Toluene	1.9610	2.0154	0.0100	-2.800	20.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003244

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: Q4541 BFB Injection Date: 12/20/2003

Instrument ID: HP5973Q BFB Injection Time: 00:34

GC Column: DB-624 ID: 0.00 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	24.2		
75	30.0 - 60.0% of mass 95	50.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.5		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	70.6		
175	5.0 - 9.0% of mass 174	5.0	(7.1)	1
176	95.0 - 101.0% of mass 174	67.4	(95.5)	1
177	5.0 - 9.0% of mass 176	4.2	(6.2)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007131-1	Q4542.RR	12/20/2003	00:54
2	MSB25	A3C32004	Q4543.RR	12/20/2003	01:27
3	VBLK25	A3C32003	Q4545.RR	12/20/2003	02:31
4	TB4-12/17/02	A3C32002	Q4555.RR	12/20/2003	07:54
5	GW03-016C-P8	A3C32001	Q4556.RR	12/20/2003	08:26

FORM V VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007155-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: Q4566.RR Calibration Date: 12/20/2003 Time: 21:47

ıtrument ID: HP5973Q Init. Calib. Date(s): 12/17/2003 12/17/2003

eated Purge (Y/N): N Init. Calib. Times: 23:12 23:44

: Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0440	0.0462	0.0100	-5.000	100.00
Benzene	1.6130	1.6476	0.0100	-2.100	100.00
Bromodichloromethane	0.4720	0.4486	0.0100	5.000	100.00
Bromoform	0.2030	0.1729	0.1000	14.800	100.00
Bromomethane	0.1750	0.1190	0.0100	32.000	100.00
2-Butanone	0.0700	0.0677	0.0100	3.300	100.00
Methyl acetate	0.1380	0.1361	0.0100	1.400	100.00
Cyclohexane	0.8590	0.8162	0.0100	5.000	100.00
Methylcyclohexane	0.6720	0.6354	0.0100	5.400	100.00
Carbon Disulfide	1.1770	1.1910	0.0100	-1.200	100.00
Carbon Tetrachloride	0.5890	0.5692	0.0100	3.400	100.00
Chlorobenzene	1.9400	1.9126	0.3000	1.400	100.00
Chloroethane	0.2530	0.2942	0.0100	-16.300	100.00
Chloroform	0.7800	0.7467	0.0100	4.300	20.00
Chloromethane	0.3970	0.3485	0.1000	12.200	100.00
Dibromochloromethane	0.4090	0.3825	0.0100	6.500	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0568	0.0100	15.200	100.00
1,2-Dibromoethane	0.3100	0.2905	0.0100	6.300	100.00
1,2-Dichlorobenzene	1.4130	1.3678	0.0100	3.200	100.00
1,3-Dichlorobenzene	1.7730	1.7517	0.0100	1.200	100.00
1,4-Dichlorobenzene	1.6980	1.6789	0.0100	1.100	100.00
Dichlorodifluoromethane	0.4510	0.4097	0.0100	9.200	100.00
1,1-Dichloroethane	0.7950	0.7979	0.1000	-0.400	100.00
1,2-Dichloroethane	0.4450	0.4318	0.0100	3.000	100.00
1,1-Dichloroethene	0.3470	0.3563	0.0100	-2.700	100.00
cis-1,2-Dichloroethene	0.4000	0.4105	0.0100	-2.600	100.00
trans-1,2-Dichloroethene	0.4000	0.4137	0.0100	-3.400	100.00
1,2-Dichloropropane	0.3900	0.3825	0.0100	1.900	20.00
cis-1,3-Dichloropropene	0.5150	0.4978	0.0100	3.300	100.00
trans-1,3-Dichloropropene	0.7810	0.7535	0.0100	3.500	100.00
Ethylbenzene	3.7160	3.8208	0.0100	-2.800	20.00
2-Hexanone	0.2030	0.2006	0.0100	1.200	100.00
Isopropylbenzene	4.5070	4.6258	0.0100	-2.600	100.00
Methylene chloride	0.3560	0.3415	0.0100	4.100	100.00
4-Methyl-2-pentanone	0.3220	0.3135	0.0100	2.600	100.00
Styrene	1.9320	1.9293	0.0100	0.100	100.00
1,1,2,2-Tetrachloroethane	0.4340	0.4219	0.3000	2.800	100.00
Tetrachloroethene	0.7760	0.7399	0.0100	4.600	100.00
Toluene	1.9610	2.0061	0.0100	-2.300	20.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003259

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: Q4565 BFB Injection Date: 12/20/2003

Instrument ID: HP5973Q BFB Injection Time: 21:12

GC Column: DB-624 ID: 0.00 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.5		
75	30.0 - 60.0% of mass 95	52.3		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.4		
173	Less than 2.0% of mass 174	0.3	(0.5)	1
174	50 - 120 % of mass 95	69.9		
175	5.0 - 9.0% of mass 174	5.9	(8.4)	1
176	95.0 - 101.0% of mass 174	69.6	(99.6)	1
177	5.0 - 9.0% of mass 176	3.9	(5.6)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007155-1	Q4566.RR	12/20/2003	21:47
2	MSB26	A3C29408	Q4567.RR	12/20/2003	22:19
3	VBLK26	A3C29407	Q4569.RR	12/20/2003	23:24
4	TB1-121703	A3C29404	Q4579.RR	12/21/2003	04:47
5	TB3-121703	A3C29405	Q4580.RR	12/21/2003	05:19
6	TB2-12/17/03	A3C29406	Q4581.RR	12/21/2003	05:52

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007159-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: Q4601.RR Calibration Date: 12/22/2003 Time: 12:13

ıtrument ID: HP5973Q Init. Calib. Date(s): 12/17/2003 12/17/2003

eated Purge (Y/N): N Init. Calib. Times: 23:12 23:44

: Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0440	0.0549	0.0100	-24.800	100.00
Benzene	1.6130	1.7074	0.0100	-5.800	100.00
Bromodichloromethane	0.4720	0.4909	0.0100	-4.000	100.00
Bromoform	0.2030	0.1966	0.1000	3.200	100.00
Bromomethane	0.1750	0.0951	0.0100	45.600	100.00
2-Butanone	0.0700	0.0796	0.0100	-13.700	100.00
Methyl acetate	0.1380	0.1582	0.0100	-14.600	100.00
Cyclohexane	0.8590	0.7905	0.0100	8.000	100.00
Methylcyclohexane	0.6720	0.6344	0.0100	5.600	100.00
Carbon Disulfide	1.1770	1.1544	0.0100	1.900	100.00
Carbon Tetrachloride	0.5890	0.5575	0.0100	5.300	100.00
Chlorobenzene	1.9400	1.9332	0.3000	0.400	100.00
Chloroethane	0.2530	0.2622	0.0100	-3.600	100.00
Chloroform	0.7800	0.7762	0.0100	0.500	20.00
Chloromethane	0.3970	0.2995	0.1000	24.600	100.00
Dibromochloromethane	0.4090	0.4190	0.0100	-2.400	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0665	0.0100	0.800	100.00
1,2-Dibromoethane	0.3100	0.3169	0.0100	-2.200	100.00
1,2-Dichlorobenzene	1.4130	1.4038	0.0100	0.700	100.00
1,3-Dichlorobenzene	1.7730	1.7172	0.0100	3.100	100.00
1,4-Dichlorobenzene	1.6980	1.6813	0.0100	1.000	100.00
Dichlorodifluoromethane	0.4510	0.3260	0.0100	27.700	100.00
1,1-Dichloroethane	0.7950	0.8121	0.1000	-2.200	100.00
1,2-Dichloroethane	0.4450	0.4783	0.0100	-7.500	100.00
1,1-Dichloroethene	0.3470	0.3541	0.0100	-2.000	100.00
cis-1,2-Dichloroethene	0.4000	0.4339	0.0100	-8.500	100.00
trans-1,2-Dichloroethene	0.4000	0.4212	0.0100	-5.300	100.00
1,2-Dichloropropane	0.3900	0.4135	0.0100	-6.000	20.00
cis-1,3-Dichloropropene	0.5150	0.5390	0.0100	-4.700	100.00
trans-1,3-Dichloropropene	0.7810	0.8045	0.0100	-3.000	100.00
Ethylbenzene	3.7160	3.7740	0.0100	-1.600	20.00
2-Hexanone	0.2030	0.2379	0.0100	-17.200	100.00
Isopropylbenzene	4.5070	4.2686	0.0100	5.300	100.00
Methylene chloride	0.3560	0.3634	0.0100	-2.100	100.00
4-Methyl-2-pentanone	0.3220	0.3600	0.0100	-11.800	100.00
Styrene	1.9320	2.0097	0.0100	-4.000	100.00
1,1,2,2-Tetrachloroethane	0.4340	0.4558	0.3000	-5.000	100.00
Tetrachloroethene	0.7760	0.7050	0.0100	9.100	100.00
Toluene	1.9610	1.9549	0.0100	0.300	20.00

FORM VII VOA

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003262

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: Q4600 BFB Injection Date: 12/22/2003

Instrument ID: HP5973Q BFB Injection Time: 11:40

GC Column: DB-624 ID: 0.00 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	25.0		
75	30.0 - 60.0% of mass 95	60.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.1		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	67.0		
175	5.0 - 9.0% of mass 174	4.8	(7.2)	1
176	95.0 - 101.0% of mass 174	64.4	(96.1)	1
177	5.0 - 9.0% of mass 176	4.9	(7.6)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A3C0007159-1	Q4601.RR	12/22/2003	12:13
2	MSB28	A3C29410	Q4602.RR	12/22/2003	12:46
3	VBLK28	A3C29409	Q4604.RR	12/22/2003	13:51
4	GW03-016B-P5	A3C29402	Q4610.RR	12/22/2003	17:04
5	GW03-012B-P4	A3C29403	Q4611.RR	12/22/2003	17:37
6	TB1-121803	A3C35304	Q4612.RR	12/22/2003	18:09
7	TB2-121803	A3C35305	Q4613.RR	12/22/2003	18:41
8	TB3-121803	A3C35306	Q4614.RR	12/22/2003	19:13
9	TB4-121803	A3C37002	Q4615.RR	12/22/2003	19:46
10	GW03-017C-P9	A3C35301	Q4616.RR	12/22/2003	20:18
11	GW03-014A-P2	A3C35303	Q4617.RR	12/22/2003	20:50

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006923-2

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ab File Id: V01216.RR Calibration Date: 12/09/2003 Time: 13:10

ntrument ID: HP5973V Init. Calib. Date(s): 10/01/2003 10/01/2003

Init. Calib. Times: 14:55 16:45

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1670	0.2098	0.0500	-25.600	100.00
Caprolactam	0.0830	0.1087	0.0500	-31.000	40.00
Acetophenone	1.6220	2.0315	0.0500	-25.200	100.00
Biphenyl	1.2850	1.4784	0.0500	-15.000	100.00
Benzaldehyde	1.2150	1.0639	0.0500	12.400	100.00

FORM VII SV-1

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003107

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

Lab File ID: V01215 DFTPP Injection Date: 12/09/2003

Instrument ID: HP5973V DFTPP Injection Time: 12:52

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	44.9		
68	Less than 2.0% of mass 69	0.3	(0.8)	1
69	Present	39.3		
70	Less than 2.0% of mass 69	0.4	(1.0)	1
127	40.0 - 60.0% of mass 198	50.3		
197	Less than 1.0% of mass 198	0.9		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.4		
275	10.0 - 30.0% of mass 198	23.9		
365	Greater than 1.00% of mass 198	2.9		
441	Present, but less than mass 443	12.2		
442	40.0 - 110.0% of mass 198	94.3		
443	17.0 - 23.0% of mass 442	17.1	(18.1)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0006923-2	V01216.RR	12/09/2003	13:10
2	SSTD050	A3C0006923-1	V01216.RR	12/09/2003	13:10
3	Matrix Spike Blank	A3B1393001	V01217.RR	12/09/2003	13:38
4	S Blank	A3B1393002	V01218.RR	12/09/2003	14:05
5	GW03-005A-P1	A3B75401	V01219.RR	12/09/2003	14:32
6	GW03-005A-P1-MS	A3B75401MS	V01220.RR	12/09/2003	15:00
7	GW03-005A-P1-SD	A3B75401SD	V01221.RR	12/09/2003	15:27
8	GW03-013A-P1	A3B75402	V01222.RR	12/09/2003	15:54
9	GW03-013A-P2	A3B75403	V01223.RR	12/09/2003	16:21
10	GW03-008A-P2	A3B75404	V01224.RR	12/09/2003	16:49
11	GW03-010A-P1	A3B75405	V01225.RR	12/09/2003	17:16
12	GW03-014C-P7	A3B75406	V01226.RR	12/09/2003	17:43

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006832-2

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120201

ab File Id: V01144.RR Calibration Date: 12/05/2003 Time: 10:01

ıtrument ID: HP5973V Init. Calib. Date(s): 10/01/2003 10/01/2003

Init. Calib. Times: 14:55 16:45

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1670	0.2056	0.0500	-23.100	100.00
Caprolactam	0.0830	0.1081	0.0500	-30.200	40.00
Acetophenone	1.6220	1.9118	0.0500	-17.900	100.00
Biphenyl	1.2850	1.4165	0.0500	-10.200	100.00
Benzaldehyde	1.2150	1.1348	0.0500	6.600	100.00

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003066

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

Lab File ID: V01143 DFTPP Injection Date: 12/05/2003

Instrument ID: HP5973V DFTPP Injection Time: 09:40

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	54.8		
68	Less than 2.0% of mass 69	0.0	(0.0)	1
69	Present	50.7		
70	Less than 2.0% of mass 69	0.3	(0.5)	1
127	40.0 - 60.0% of mass 198	55.7		
197	Less than 1.0% of mass 198	0.5		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.9		
275	10.0 - 30.0% of mass 198	21.4		
365	Greater than 1.00% of mass 198	2.3		
441	Present, but less than mass 443	9.3		
442	40.0 - 110.0% of mass 198	67.6		
443	17.0 - 23.0% of mass 442	12.7	(18.8)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0006832-2	V01144.RR	12/05/2003	10:01
2	SSTD050	A3C0006832-1	V01144.RR	12/05/2003	10:01
3	Matrix Spike Blank	A3B1383601	V01155.RR	12/05/2003	15:01
4	S Blank	A3B1383602	V01156.RR	12/05/2003	15:28
5	GW03-011A-P1	A3B64101	V01157.RR	12/05/2003	15:56
6	GW03-011A-P2	A3B64102	V01158.RR	12/05/2003	16:23
7	GW03-003A-P1	A3B64103	V01159.RR	12/05/2003	16:50
8	GW03-003A-P1	A3B64103MS	V01160.RR	12/05/2003	17:18
9	GW03-003A-P1	A3B64103SD	V01161.RR	12/05/2003	17:45
10	GW03-003A-P2	A3B64104	V01162.RR	12/05/2003	18:12
11	GW03-010C-P7	A3B64105	V01163.RR	12/05/2003	18:39
12	GW03-010B-P4	A3B65601	V01164.RR	12/05/2003	19:06
13	GW03-011B-P4	A3B65602	V01165.RR	12/05/2003	19:34
14	GW03-011C-P7	A3B65603	V01166.RR	12/05/2003	20:01
15	GW03-006A-P1	A3B65604	V01167.RR	12/05/2003	20:28

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007030-2

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

Lab File Id: V01286.RR Calibration Date: 12/11/2003 Time: 10:03

Intrument ID: HP5973V Init. Calib. Date(s): 10/01/2003 10/01/2003

Init. Calib. Times: 14:55 16:45

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1670	0.2044	0.0500	-22.400	100.00
Caprolactam	0.0830	0.1076	0.0500	-29.600	40.00
Acetophenone	1.6220	1.9653	0.0500	-21.200	100.00
Biphenyl	1.2850	1.4254	0.0500	-10.900	100.00
Benzaldehyde	1.2150	0.8311	0.0500	31.600	100.00

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003157

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

Lab File ID: V01285 DFTPP Injection Date: 12/11/2003

Instrument ID: HP5973V DFTPP Injection Time: 09:45

m/e	ION Abundance Criteria	% Relative Abundance
51	30.0 - 60.0% of mass 198	53.7
68	Less than 2.0% of mass 69	0.7 (1.3) 1
69	Present	52.5
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	40.0 - 60.0% of mass 198	56.5
197	Less than 1.0% of mass 198	0.8
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.5
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 1.00% of mass 198	2.8
441	Present, but less than mass 443	8.8
442	40.0 - 110.0% of mass 198	68.3
443	17.0 - 23.0% of mass 442	14.2 (20.8) 2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0007030-2	V01286.RR	12/11/2003	10:03
2	SSTD050	A3C0007030-1	V01286.RR	12/11/2003	10:03
3	GW03-009A-P1	A3B82901	V01301.RR	12/11/2003	16:55
4	GW03-009A-P2	A3B82902	V01302.RR	12/11/2003	17:22
5	GW03-009B-P4	A3B82903	V01303.RR	12/11/2003	17:50
6	GW03-009B-P5	A3B82904	V01304.RR	12/11/2003	18:17
7	GW03-009B-P5	A3B82904MS	V01305.RR	12/11/2003	18:44
8	GW03-009B-P5	A3B82904SD	V01306.RR	12/11/2003	19:12
9	GW03-013C-P7	A3B82905	V01307.RR	12/11/2003	19:39
10	GW03-014B-P4	A3B82906	V01308.RR	12/11/2003	20:07

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0006923-2

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120301

Lab File Id: V01216.RR Calibration Date: 12/09/2003 Time: 13:10

Intrument ID: HP5973V Init. Calib. Date(s): 10/01/2003 10/01/2003

Init. Calib. Times: 14:55 16:45

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1670	0.2098	0.0500	-25.600	100.00
Caprolactam	0.0830	0.1087	0.0500	-31.000	40.00
Acetophenone	1.6220	2.0315	0.0500	-25.200	100.00
Biphenyl	1.2850	1.4784	0.0500	-15.000	100.00
Benzaldehyde	1.2150	1.0639	0.0500	12.400	100.00

FORM VII SV-1

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003107

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

Lab File ID: V01215 DFTPP Injection Date: 12/09/2003

Instrument ID: HP5973V DFTPP Injection Time: 12:52

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	44.9		
68	Less than 2.0% of mass 69	0.3	(0.8)	1
69	Present	39.3		
70	Less than 2.0% of mass 69	0.4	(1.0)	1
127	40.0 - 60.0% of mass 198	50.3		
197	Less than 1.0% of mass 198	0.9		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.4		
275	10.0 - 30.0% of mass 198	23.9		
365	Greater than 1.00% of mass 198	2.9		
441	Present, but less than mass 443	12.2		
442	40.0 - 110.0% of mass 198	94.3		
443	17.0 - 23.0% of mass 442	17.1	(18.1)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0006923-2	V01216.RR	12/09/2003	13:10
2	SSTD050	A3C0006923-1	V01216.RR	12/09/2003	13:10
3	Matrix Spike Blank	A3B1393001	V01217.RR	12/09/2003	13:38
4	S Blank	A3B1393002	V01218.RR	12/09/2003	14:05
5	GW03-013B-P5	A3B75901	V01227.RR	12/09/2003	18:11
6	GW03-013B-P4	A3B75902	V01228.RR	12/09/2003	18:38
7	GW03-007A-P1	A3B75903	V01229.RR	12/09/2003	19:05
8	GW03-007B-P4	A3B75904	V01230.RR	12/09/2003	19:33
9	Matrix Spike Blank	A3B1402001	V01232.RR	12/09/2003	20:27
10	S Blank	A3B1402002	V01233.RR	12/09/2003	20:55

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007064-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ab File Id: V01339.RR Calibration Date: 12/14/2003 Time: 12:47

ntrument ID: HP5973V Init. Calib. Date(s): 12/08/2003 12/08/2003

Init. Calib. Times: 13:04 14:53

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.8930	1.9900	0.0500	-5.100	20.00
Bis(2-chloroethyl) ether	1.4470	1.4419	0.0500	0.400	25.00
2-Chlorophenol	1.3620	1.3901	0.0500	-2.100	25.00
2-Methylphenol	1.3950	1.4214	0.0500	-1.900	25.00
2,2'-Oxybis(1-Chloropropane)	2.5060	2.5042	0.0500	0.100	25.00
4-Methylphenol	1.4430	1.5021	0.0500	-4.100	25.00
N-Nitroso-Di-n-propylamine	1.1510	1.1605	0.0500	-0.800	25.00
Hexachloroethane	0.6170	0.6218	0.0500	-0.800	25.00
Nitrobenzene	0.4680	0.4595	0.0500	1.800	25.00
Isophorone	0.7930	0.7841	0.0500	1.100	25.00
2-Nitrophenol	0.1830	0.1834	0.0500	-0.200	20.00
2,4-Dimethylphenol	0.3750	0.3672	0.0500	2.100	25.00
Bis(2-chloroethoxy) methane	0.4280	0.4178	0.0500	2.400	25.00
2,4-Dichlorophenol	0.2630	0.2665	0.0500	-1.300	20.00
Naphthalene	0.9990	0.9927	0.0500	0.600	25.00
4-Chloroaniline	0.4020	0.4112	0.0500	-2.300	25.00
Hexachlorobutadiene	0.1570	0.1544	0.0500	1.600	20.00
4-Chloro-3-methylphenol	0.3240	0.3366	0.0500	-3.900	20.00
2-Methylnaphthalene	0.6610	0.6608	0.0500	0.000	25.00
Hexachlorocyclopentadiene	0.2640	0.1802	0.0500	31.700	25.00
2,4,6-Trichlorophenol	0.3290	0.3395	0.0500	-3.200	25.00
2,4,5-Trichlorophenol	0.3500	0.3715	0.0500	-6.100	25.00
2-Chloronaphthalene	1.1000	1.1023	0.0500	-0.200	25.00
2-Nitroaniline	0.4130	0.4357	0.0500	-5.500	25.00
Dimethyl phthalate	1.1970	1.1251	0.0500	6.000	25.00
Acenaphthylene	1.8150	1.8417	0.0500	-1.500	25.00
2,6-Dinitrotoluene	0.2590	0.2605	0.0500	-0.600	25.00
3-Nitroaniline	0.3350	0.3500	0.0500	-4.500	25.00
Acenaphthene	1.0460	1.0608	0.0500	-1.400	20.00
2,4-Dinitrophenol	0.1350	0.1125	0.0500	16.700	40.00
4-Nitrophenol	0.2400	0.2448	0.0500	-2.000	40.00
Dibenzofuran	1.5000	1.5884	0.0500	-5.900	25.00
2,4-Dinitrotoluene	0.3740	0.3771	0.0500	-0.800	25.00
Diethyl phthalate	1.2900	1.2373	0.0500	4.100	25.00
4-Chlorophenyl phenyl ether	0.5530	0.5536	0.0500	-0.100	25.00
Fluorene	1.1590	1.2185	0.0500	-5.100	25.00
4-Nitroaniline	0.3290	0.3470	0.0500	-5.500	25.00
4,6-Dinitro-2-methylphenol	0.1220	0.1177	0.0500	3.500	40.00
N-nitrosodiphenylamine	0.5070	0.4880	0.0500	3.700	20.00

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CONTINUING CALIBRATION CHECK

ıab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007064-2

ıab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ıab File Id: V01340.RR Calibration Date: 12/14/2003 Time: 13:15

ntrument ID: HP5973V Init. Calib. Date(s): 10/01/2003 10/01/2003

Init. Calib. Times: 14:55 16:45

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1670	0.2046	0.0500	-22.500	100.00
Caprolactam	0.0830	0.1099	0.0500	-32.400	40.00
Acetophenone	1.6220	2.2536	0.0500	-38.900	100.00
Biphenyl	1.2850	1.5452	0.0500	-20.200	100.00
Benzaldehyde	1.2150	1.3334	0.0500	-9.700	100.00

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DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003186

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: V01338 DFTPP Injection Date: 12/14/2003

Instrument ID: HP5973V DFTPP Injection Time: 12:29

m/e	ION Abundance Criteria	% Relative Abundance
51	30.0 - 60.0% of mass 198	55.4
68	Less than 2.0% of mass 69	0.3 (0.6) 1
69	Present	50.1
70	Less than 2.0% of mass 69	0.2 (0.3) 1
127	40.0 - 60.0% of mass 198	54.6
197	Less than 1.0% of mass 198	0.0
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	6.4
275	10.0 - 30.0% of mass 198	21.5
365	Greater than 1.00% of mass 198	2.2
441	Present, but less than mass 443	8.3
442	40.0 - 110.0% of mass 198	63.0
443	17.0 - 23.0% of mass 442	11.7 (18.5) 2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0007064-1	V01339.RR	12/14/2003	12:47
2	SSTD050	A3C0007064-2	V01340.RR	12/14/2003	13:15
3	Matrix Spike Blank	A3B1425301	V01341.RR	12/14/2003	13:42
4	S Blank	A3B1425302	V01342.RR	12/14/2003	14:09
5	GWO3-015A-P1	A3B89701	V01344.RR	12/14/2003	15:03
6	GWO3-015B-P4	A3B89702	V01345.RR	12/14/2003	15:30
7	GWO3-015B-P4	A3B89702MS	V01346.RR	12/14/2003	15:57
8	GWO3-015B-P4	A3B89702SD	V01347.RR	12/14/2003	16:24
9	GWO3-014B-P6	A3B89703	V01348.RR	12/14/2003	16:51
10	GWO3-001A-P1	A3B89704	V01349.RR	12/14/2003	17:18
11	GW03-002A-P1	A3B93801	V01350.RR	12/14/2003	17:45
12	GW03-015A-P3	A3B93802	V01351.RR	12/14/2003	18:12
13	GW03-015B-P6	A3B97001	V01352.RR	12/14/2003	18:39
14	GW03-015C-P7	A3B97002	V01353.RR	12/14/2003	19:06
15	GW03-005A-P2	A3C00701	V01354.RR	12/14/2003	19:33
16	GW03-017B-P4	A3C00702	V01355.RR	12/14/2003	20:00
17	GW03-015B-P5	A3C00703	V01356.RR	12/14/2003	20:27
18	GW03-007A-P2	A3C00704	V01357.RR	12/14/2003	20:54
19	GW03-017C-P7	A3C03201	V01358.RR	12/14/2003	21:21
20	GW03-015A-P2	A3C03202	V01359.RR	12/14/2003	21:48
21	GW03-007A-P3	A3C08301	V01360.RR	12/14/2003	22:15
22	GW03-007B-P5	A3C08302	V01361.RR	12/14/2003	22:41

FORM V SV

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DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003186

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: V01338 DFTPP Injection Date: 12/14/2003

Instrument ID: HP5973V DFTPP Injection Time: 12:29

23	GW03-017B-P6	A3C08303	V01362.RR	12/14/2003	23:08

FORM V SV

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007101-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ab File Id: V01416.RR Calibration Date: 12/17/2003 Time: 10:11

ntrument ID: HP5973V Init. Calib. Date(s): 12/08/2003 12/08/2003

Init. Calib. Times: 13:04 14:53

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.8930	2.1473	0.0500	-13.400	20.00
Bis(2-chloroethyl) ether	1.4470	1.4779	0.0500	-2.100	25.00
2-Chlorophenol	1.3620	1.4900	0.0500	-9.400	25.00
2-Methylphenol	1.3950	1.5100	0.0500	-8.200	25.00
2,2'-Oxybis(1-Chloropropane)	2.5060	2.5021	0.0500	0.200	25.00
4-Methylphenol	1.4430	1.6116	0.0500	-11.700	25.00
N-Nitroso-Di-n-propylamine	1.1510	1.1516	0.0500	-0.100	25.00
Hexachloroethane	0.6170	0.5949	0.0500	3.600	25.00
Nitrobenzene	0.4680	0.4101	0.0500	12.400	25.00
Isophorone	0.7930	0.7417	0.0500	6.500	25.00
2-Nitrophenol	0.1830	0.1855	0.0500	-1.400	20.00
2,4-Dimethylphenol	0.3750	0.3572	0.0500	4.700	25.00
Bis(2-chloroethoxy) methane	0.4280	0.4154	0.0500	2.900	25.00
2,4-Dichlorophenol	0.2630	0.2716	0.0500	-3.300	20.00
Naphthalene	0.9990	1.0135	0.0500	-1.400	25.00
4-Chloroaniline	0.4020	0.4234	0.0500	-5.300	25.00
Hexachlorobutadiene	0.1570	0.1478	0.0500	5.800	20.00
4-Chloro-3-methylphenol	0.3240	0.3158	0.0500	2.500	20.00
2-Methylnaphthalene	0.6610	0.6878	0.0500	-4.000	25.00
Hexachlorocyclopentadiene	0.2640	0.1972	0.0500	25.300	25.00
2,4,6-Trichlorophenol	0.3290	0.3345	0.0500	-1.700	25.00
2,4,5-Trichlorophenol	0.3500	0.3484	0.0500	0.500	25.00
2-Chloronaphthalene	1.1000	1.0617	0.0500	3.500	25.00
2-Nitroaniline	0.4130	0.3761	0.0500	8.900	25.00
Dimethyl phthalate	1.1970	1.2111	0.0500	-1.200	25.00
Acenaphthylene	1.8150	1.7784	0.0500	2.000	25.00
2,6-Dinitrotoluene	0.2590	0.2723	0.0500	-5.100	25.00
3-Nitroaniline	0.3350	0.3426	0.0500	-2.300	25.00
Acenaphthene	1.0460	1.0118	0.0500	3.300	20.00
2,4-Dinitrophenol	0.1350	0.1243	0.0500	7.900	40.00
4-Nitrophenol	0.2400	0.2048	0.0500	14.700	40.00
Dibenzofuran	1.5000	1.5333	0.0500	-2.200	25.00
2,4-Dinitrotoluene	0.3740	0.3838	0.0500	-2.600	25.00
Diethyl phthalate	1.2900	1.2135	0.0500	5.900	25.00
4-Chlorophenyl phenyl ether	0.5530	0.5968	0.0500	-7.900	25.00
Fluorene	1.1590	1.2729	0.0500	-9.800	25.00
4-Nitroaniline	0.3290	0.3283	0.0500	0.200	25.00
4,6-Dinitro-2-methylphenol	0.1220	0.1283	0.0500	-5.200	40.00
N-nitrosodiphenylamine	0.5070	0.5230	0.0500	-3.200	20.00

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007101-2

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 120801

ab File Id: V01418.RR Calibration Date: 12/17/2003 Time: 11:06

ntrument ID: HP5973V Init. Calib. Date(s): 10/01/2003 10/01/2003

Init. Calib. Times: 14:55 16:45

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1670	0.1832	0.0500	-9.700	100.00
Caprolactam	0.0830	0.1091	0.0500	-31.400	40.00
Acetophenone	1.6220	1.9169	0.0500	-18.200	100.00
Biphenyl	1.2850	1.3901	0.0500	-8.200	100.00
Benzaldehyde	1.2150	1.0907	0.0500	10.200	100.00

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DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003215

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: V01415 DFTPP Injection Date: 12/17/2003

Instrument ID: HP5973V DFTPP Injection Time: 09:43

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	50.9		
68	Less than 2.0% of mass 69	0.3	(0.7)	1
69	Present	44.4		
70	Less than 2.0% of mass 69	0.2	(0.4)	1
127	40.0 - 60.0% of mass 198	53.6		
197	Less than 1.0% of mass 198	0.5		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	20.5		
365	Greater than 1.00% of mass 198	1.3		
441	Present, but less than mass 443	8.1		
442	40.0 - 110.0% of mass 198	63.0		
443	17.0 - 23.0% of mass 442	13.0	(20.6)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0007101-1	V01416.RR	12/17/2003	10:11
2	Matrix Spike Blank	A3B1432401	V01417.RR	12/17/2003	10:39
3	S Blank	A3B1432402	V01419.RR	12/17/2003	11:33
4	GW03-017A-P2	A3C15101	V01426.RR	12/17/2003	14:44
5	GW03-017A-P2MS	A3C15101MS	V01427.RR	12/17/2003	15:11
6	GW03-017A-P2SD	A3C15101SD	V01428.RR	12/17/2003	15:38

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DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003185

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Lab File ID: V01392 DFTPP Injection Date: 12/~~16~~17/2003

Instrument ID: HP5973V DFTPP Injection Time: ~~08:47~~ 09:43

2/12/04

m/e	ION Abundance Criteria	% Relative Abundance
51	30.0 - 60.0% of mass 198	49.2
68	Less than 2.0% of mass 69	0.5 (1.1) 1
69	Present	44.4
70	Less than 2.0% of mass 69	0.4 (0.8) 1
127	40.0 - 60.0% of mass 198	53.4
197	Less than 1.0% of mass 198	0.3
198	Base peak, 100% relative abundance	100.0
199	5.0 - 9.0% of mass 198	7.2
275	10.0 - 30.0% of mass 198	21.9
365	Greater than 1.00% of mass 198	2.4
441	Present, but less than mass 443	8.7
442	40.0 - 110.0% of mass 198	70.1
443	17.0 - 23.0% of mass 442	14.1 (20.1) 2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	Matrix Spike Blank	A3B1432401	V01417.RR	12/17/2003	10:39
2	SSTD050	A3C0007101-2	V01418.RR	12/17/2003	11:06
3	S Blank	A3B1432402	V01419.RR	12/17/2003	11:33
4	GW03-017A-P2	A3C15101	V01426.RR	12/17/2003	14:44
5	GW03-017A-P2MS	A3C15101MS	V01427.RR	12/17/2003	15:11
6	GW03-017A-P2SD	A3C15101SD	V01428.RR	12/17/2003	15:38

FORM V SV

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CONTINUING CALIBRATION CHECK

b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007101-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

b File Id: V01416.RR Calibration Date: 12/17/2003 Time: 10:11

trument ID: HP5973V Init. Calib. Date(s): 12/08/2003 12/08/2003

Init. Calib. Times: 13:04 14:53

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.8930	2.1473	0.0500	-13.400	20.00
Bis(2-chloroethyl) ether	1.4470	1.4779	0.0500	-2.100	25.00
2-Chlorophenol	1.3620	1.4900	0.0500	-9.400	25.00
2-Methylphenol	1.3950	1.5100	0.0500	-8.200	25.00
2,2'-Oxybis(1-Chloropropane)	2.5060	2.5021	0.0500	0.200	25.00
4-Methylphenol	1.4430	1.6116	0.0500	-11.700	25.00
N-Nitroso-Di-n-propylamine	1.1510	1.1516	0.0500	-0.100	25.00
Hexachloroethane	0.6170	0.5949	0.0500	3.600	25.00
Nitrobenzene	0.4680	0.4101	0.0500	12.400	25.00
Isophorone	0.7930	0.7417	0.0500	6.500	25.00
2-Nitrophenol	0.1830	0.1855	0.0500	-1.400	20.00
2,4-Dimethylphenol	0.3750	0.3572	0.0500	4.700	25.00
Bis(2-chloroethoxy) methane	0.4280	0.4154	0.0500	2.900	25.00
2,4-Dichlorophenol	0.2630	0.2716	0.0500	-3.300	20.00
Naphthalene	0.9990	1.0135	0.0500	-1.400	25.00
4-Chloroaniline	0.4020	0.4234	0.0500	-5.300	25.00
Hexachlorobutadiene	0.1570	0.1478	0.0500	5.800	20.00
4-Chloro-3-methylphenol	0.3240	0.3158	0.0500	2.500	20.00
2-Methylnaphthalene	0.6610	0.6878	0.0500	-4.000	25.00
Hexachlorocyclopentadiene	0.2640	0.1972	0.0500	25.300	25.00
2,4,6-Trichlorophenol	0.3290	0.3345	0.0500	-1.700	25.00
2,4,5-Trichlorophenol	0.3500	0.3484	0.0500	0.500	25.00
2-Chloronaphthalene	1.1000	1.0617	0.0500	3.500	25.00
2-Nitroaniline	0.4130	0.3761	0.0500	8.900	25.00
Dimethyl phthalate	1.1970	1.2111	0.0500	-1.200	25.00
Acenaphthylene	1.8150	1.7784	0.0500	2.000	25.00
2,6-Dinitrotoluene	0.2590	0.2723	0.0500	-5.100	25.00
3-Nitroaniline	0.3350	0.3426	0.0500	-2.300	25.00
Acenaphthene	1.0460	1.0118	0.0500	3.300	20.00
2,4-Dinitrophenol	0.1350	0.1243	0.0500	7.900	40.00
4-Nitrophenol	0.2400	0.2048	0.0500	14.700	40.00
Dibenzofuran	1.5000	1.5333	0.0500	-2.200	25.00
2,4-Dinitrotoluene	0.3740	0.3838	0.0500	-2.600	25.00
Diethyl phthalate	1.2900	1.2135	0.0500	5.900	25.00
4-Chlorophenyl phenyl ether	0.5530	0.5968	0.0500	-7.900	25.00
Fluorene	1.1590	1.2729	0.0500	-9.800	25.00
4-Nitroaniline	0.3290	0.3283	0.0500	0.200	25.00
4,6-Dinitro-2-methylphenol	0.1220	0.1283	0.0500	-5.200	40.00
N-nitrosodiphenylamine	0.5070	0.5230	0.0500	-3.200	20.00

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CONTINUING CALIBRATION CHECK

ıb Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007101-2

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

ıb File Id: V01418.RR Calibration Date: 12/17/2003 Time: 11:06

ıtrument ID: HP5973V Init. Calib. Date(s): 10/01/2003 10/01/2003

Init. Calib. Times: 14:55 16:45

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Atrazine	0.1670	0.1832	0.0500	-9.700	100.00
Caprolactam	0.0830	0.1091	0.0500	-31.400	40.00
Acetophenone	1.6220	1.9169	0.0500	-18.200	100.00
Biphenyl	1.2850	1.3901	0.0500	-8.200	100.00
Benzaldehyde	1.2150	1.0907	0.0500	10.200	100.00

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DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003215

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121201

Lab File ID: V01415 DFTPP Injection Date: 12/17/2003

Instrument ID: HP5973V DFTPP Injection Time: 09:43

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	50.9		
68	Less than 2.0% of mass 69	0.3	(0.7)	1
69	Present	44.4		
70	Less than 2.0% of mass 69	0.2	(0.4)	1
127	40.0 - 60.0% of mass 198	53.6		
197	Less than 1.0% of mass 198	0.5		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	20.5		
365	Greater than 1.00% of mass 198	1.3		
441	Present, but less than mass 443	8.1		
442	40.0 - 110.0% of mass 198	63.0		
443	17.0 - 23.0% of mass 442	13.0	(20.6)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0007101-1	V01416.RR	12/17/2003	10:11
2	Matrix Spike Blank	A3B1432401	V01417.RR	12/17/2003	10:39
3	SSTD050	A3C0007101-2	V01418.RR	12/17/2003	11:06
4	S Blank	A3B1432402	V01419.RR	12/17/2003	11:33
5	GW03-017B-P5	A3C10401	V01422.RR	12/17/2003	12:55
6	GW03-016A-P3	A3C10402	V01423.RR	12/17/2003	13:22
7	GW03-016A-P1	A3C15002	V01424.RR	12/17/2003	13:49
8	GW03-016B-P4	A3C15003	V01425.RR	12/17/2003	14:17

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CONTINUING CALIBRATION CHECK

.b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007110-1

.b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

.b File Id: Y59207.RR Calibration Date: 12/18/2003 Time: 09:27

ıtrument ID: I50Y-A Init. Calib. Date(s): 12/03/2003 12/03/2003

Init. Calib. Times: 11:59 14:49

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.9880	2.0460	0.0500	-2.900	20.00
Bis(2-chloroethyl) ether	1.5330	1.5782	0.0500	-2.900	25.00
2-Chlorophenol	1.3610	1.3988	0.0500	-2.800	25.00
2-Methylphenol	1.2440	1.2175	0.0500	2.100	25.00
2,2'-Oxybis(1-Chloropropane)	3.0930	3.0305	0.0500	2.000	25.00
4-Methylphenol	1.3300	1.3845	0.0500	-4.100	25.00
N-Nitroso-Di-n-propylamine	1.1680	1.2224	0.0500	-4.600	25.00
Hexachloroethane	0.6370	0.6689	0.0500	-5.000	25.00
Nitrobenzene	0.4100	0.4248	0.0500	-3.600	25.00
Isophorone	0.8300	0.8350	0.0500	-0.600	25.00
2-Nitrophenol	0.1870	0.1907	0.0500	-2.000	20.00
2,4-Dimethylphenol	0.3290	0.3151	0.0500	4.200	25.00
Bis(2-chloroethoxy) methane	0.4730	0.4940	0.0500	-4.400	25.00
2,4-Dichlorophenol	0.2680	0.2706	0.0500	-1.000	20.00
Naphthalene	0.9550	0.9698	0.0500	-1.500	25.00
4-Chloroaniline	0.3930	0.3909	0.0500	0.500	25.00
Hexachlorobutadiene	0.1570	0.1687	0.0500	-7.400	20.00
4-Chloro-3-methylphenol	0.3100	0.3179	0.0500	-2.500	20.00
2-Methylnaphthalene	0.6010	0.6091	0.0500	-1.300	25.00
Hexachlorocyclopentadiene	0.2800	0.2830	0.0500	-1.100	25.00
2,4,6-Trichlorophenol	0.3390	0.3337	0.0500	1.600	25.00
2,4,5-Trichlorophenol	0.3670	0.3683	0.0500	-0.400	25.00
2-Chloronaphthalene	0.9410	1.0213	0.0500	-8.500	25.00
2-Nitroaniline	0.4020	0.4031	0.0500	-0.300	25.00
Dimethyl phthalate	1.2160	1.2651	0.0500	-4.000	25.00
Acenaphthylene	1.5320	1.5893	0.0500	-3.700	25.00
2,6-Dinitrotoluene	0.2820	0.2936	0.0500	-4.100	25.00
3-Nitroaniline	0.3220	0.3181	0.0500	1.200	25.00
Acenaphthene	0.8860	0.9422	0.0500	-6.300	20.00
2,4-Dinitrophenol	0.1670	0.0709	0.0500	57.500	40.00
4-Nitrophenol	0.1560	0.1501	0.0500	3.800	40.00
Dibenzofuran	1.4510	1.4799	0.0500	-2.000	25.00
2,4-Dinitrotoluene	0.3960	0.4074	0.0500	-2.900	25.00
Diethyl phthalate	1.2780	1.3357	0.0500	-4.500	25.00
4-Chlorophenyl phenyl ether	0.5790	0.6196	0.0500	-7.000	25.00
Fluorene	1.1310	1.1841	0.0500	-4.700	25.00
4-Nitroaniline	0.3280	0.3366	0.0500	-2.600	25.00
4,6-Dinitro-2-methylphenol	0.1510	0.1109	0.0500	26.600	40.00
N-nitrosodiphenylamine	0.5330	0.5745	0.0500	-7.800	20.00

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DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003226

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121201

Lab File ID: Y59206 DFTPP Injection Date: 12/18/2003

Instrument ID: I50Y-A DFTPP Injection Time: 09:08

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	50.4		
68	Less than 2.0% of mass 69	0.6	(1.0)	1
69	Present	59.6		
70	Less than 2.0% of mass 69	0.1	(0.1)	1
127	40.0 - 60.0% of mass 198	48.6		
197	Less than 1.0% of mass 198	0.0		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.3		
275	10.0 - 30.0% of mass 198	22.8		
365	Greater than 1.00% of mass 198	2.3		
441	Present, but less than mass 443	11.0		
442	40.0 - 110.0% of mass 198	89.1		
443	17.0 - 23.0% of mass 442	16.4	(18.4)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0007110-1	Y59207.RR	12/18/2003	09:27
2	SSTD050	A3C0007110-2	Y59208.RR	12/18/2003	10:10
3	Matrix Spike Blank	A3B1443201	Y59219.RR	12/18/2003	18:07
4	Method Blank	A3B1443202	Y59220.RR	12/18/2003	18:50
5	GW03-017C-P8	A3C20801	Y59221.RR	12/18/2003	19:33
6	EB1-121503	A3C20802	Y59222.RR	12/18/2003	20:17
7	GW03-012C-P7	A3C20803	Y59223.RR	12/18/2003	21:00

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CONTINUING CALIBRATION CHECK

b Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007122-1

b Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121201

b File Id: Y59225.RR Calibration Date: 12/19/2003 Time: 07:22

trument ID: I50Y-A Init. Calib. Date(s): 12/03/2003 12/03/2003

Init. Calib. Times: 11:59 14:49

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.9880	1.9625	0.0500	1.300	20.00
Bis(2-chloroethyl) ether	1.5330	1.5034	0.0500	1.900	25.00
2-Chlorophenol	1.3610	1.3467	0.0500	1.000	25.00
2-Methylphenol	1.2440	1.2133	0.0500	2.500	25.00
2,2'-Oxybis(1-Chloropropane)	3.0930	2.9943	0.0500	3.200	25.00
4-Methylphenol	1.3300	1.3218	0.0500	0.600	25.00
N-Nitroso-Di-n-propylamine	1.1680	1.1319	0.0500	3.100	25.00
Hexachloroethane	0.6370	0.6563	0.0500	-3.000	25.00
Nitrobenzene	0.4100	0.4301	0.0500	-4.900	25.00
Isophorone	0.8300	0.8360	0.0500	-0.700	25.00
2-Nitrophenol	0.1870	0.1844	0.0500	1.400	20.00
2,4-Dimethylphenol	0.3290	0.3338	0.0500	-1.400	25.00
Bis(2-chloroethoxy) methane	0.4730	0.4960	0.0500	-4.900	25.00
2,4-Dichlorophenol	0.2680	0.2655	0.0500	0.900	20.00
Naphthalene	0.9550	0.9682	0.0500	-1.400	25.00
4-Chloroaniline	0.3930	0.4139	0.0500	-5.300	25.00
Hexachlorobutadiene	0.1570	0.1618	0.0500	-3.000	20.00
4-Chloro-3-methylphenol	0.3100	0.3118	0.0500	-0.600	20.00
2-Methylnaphthalene	0.6010	0.5977	0.0500	0.600	25.00
Hexachlorocyclopentadiene	0.2800	0.2855	0.0500	-2.000	25.00
2,4,6-Trichlorophenol	0.3390	0.3257	0.0500	3.900	25.00
2,4,5-Trichlorophenol	0.3670	0.3556	0.0500	3.100	25.00
2-Chloronaphthalene	0.9410	0.9589	0.0500	-1.900	25.00
2-Nitroaniline	0.4020	0.3878	0.0500	3.500	25.00
Dimethyl phthalate	1.2160	1.2156	0.0500	0.000	25.00
Acenaphthylene	1.5320	1.5383	0.0500	-0.400	25.00
2,6-Dinitrotoluene	0.2820	0.2840	0.0500	-0.700	25.00
3-Nitroaniline	0.3220	0.3223	0.0500	-0.100	25.00
Acenaphthene	0.8860	0.8952	0.0500	-1.000	20.00
2,4-Dinitrophenol	0.1670	0.0878	0.0500	47.400	40.00
4-Nitrophenol	0.1560	0.1489	0.0500	4.600	40.00
Dibenzofuran	1.4510	1.4370	0.0500	1.000	25.00
2,4-Dinitrotoluene	0.3960	0.3869	0.0500	2.300	25.00
Diethyl phthalate	1.2780	1.2974	0.0500	-1.500	25.00
4-Chlorophenyl phenyl ether	0.5790	0.5894	0.0500	-1.800	25.00
Fluorene	1.1310	1.1539	0.0500	-2.000	25.00
4-Nitroaniline	0.3280	0.3112	0.0500	5.100	25.00
4,6-Dinitro-2-methylphenol	0.1510	0.1233	0.0500	18.300	40.00
N-nitrosodiphenylamine	0.5330	0.5524	0.0500	-3.600	20.00

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DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003238

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121201

Lab File ID: Y59224 DFTPP Injection Date: 12/19/2003

Instrument ID: I50Y-A DFTPP Injection Time: 07:03

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	50.5		
68	Less than 2.0% of mass 69	0.6	(1.0)	1
69	Present	59.2		
70	Less than 2.0% of mass 69	0.1	(0.1)	1
127	40.0 - 60.0% of mass 198	49.3		
197	Less than 1.0% of mass 198	0.1		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.6		
275	10.0 - 30.0% of mass 198	22.4		
365	Greater than 1.00% of mass 198	2.2		
441	Present, but less than mass 443	10.6		
442	40.0 - 110.0% of mass 198	88.2		
443	17.0 - 23.0% of mass 442	16.2	(18.4)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0007122-1	Y59225.RR	12/19/2003	07:22
2	SSTD050	A3C0007122-2	Y59228.RR	12/19/2003	09:36
3	GW03-016C-P7	A3C20804	Y59229.RR	12/19/2003	10:19
4	GW03-016C-P7	A3C20804MS	Y59230.RR	12/19/2003	11:03
5	GW03-016C-P7	A3C20804SD	Y59231.RR	12/19/2003	11:46
6	GW03-016B-P6	A3C21701	Y59232.RR	12/19/2003	12:29
7	GW03-014A-P1	A3C21702	Y59233.RR	12/19/2003	13:13
8	EB2-121503	A3C21703	Y59234.RR	12/19/2003	13:56

FORM V SV

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3C0007110-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 121601

ab File Id: Y59207.RR Calibration Date: 12/18/2003 Time: 09:27

ntrument ID: I50Y-A Init. Calib. Date(s): 12/03/2003 12/03/2003

Init. Calib. Times: 11:59 14:49

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.9880	2.0460	0.0500	-2.900	20.00
Bis(2-chloroethyl) ether	1.5330	1.5782	0.0500	-2.900	25.00
2-Chlorophenol	1.3610	1.3988	0.0500	-2.800	25.00
2-Methylphenol	1.2440	1.2175	0.0500	2.100	25.00
2,2'-Oxybis(1-Chloropropane)	3.0930	3.0305	0.0500	2.000	25.00
4-Methylphenol	1.3300	1.3845	0.0500	-4.100	25.00
N-Nitroso-Di-n-propylamine	1.1680	1.2224	0.0500	-4.600	25.00
Hexachloroethane	0.6370	0.6689	0.0500	-5.000	25.00
Nitrobenzene	0.4100	0.4248	0.0500	-3.600	25.00
Isophorone	0.8300	0.8350	0.0500	-0.600	25.00
2-Nitrophenol	0.1870	0.1907	0.0500	-2.000	20.00
2,4-Dimethylphenol	0.3290	0.3151	0.0500	4.200	25.00
Bis(2-chloroethoxy) methane	0.4730	0.4940	0.0500	-4.400	25.00
2,4-Dichlorophenol	0.2680	0.2706	0.0500	-1.000	20.00
Naphthalene	0.9550	0.9698	0.0500	-1.500	25.00
4-Chloroaniline	0.3930	0.3909	0.0500	0.500	25.00
Hexachlorobutadiene	0.1570	0.1687	0.0500	-7.400	20.00
4-Chloro-3-methylphenol	0.3100	0.3179	0.0500	-2.500	20.00
2-Methylnaphthalene	0.6010	0.6091	0.0500	-1.300	25.00
Hexachlorocyclopentadiene	0.2800	0.2830	0.0500	-1.100	25.00
2,4,6-Trichlorophenol	0.3390	0.3337	0.0500	1.600	25.00
2,4,5-Trichlorophenol	0.3670	0.3683	0.0500	-0.400	25.00
2-Chloronaphthalene	0.9410	1.0213	0.0500	-8.500	25.00
2-Nitroaniline	0.4020	0.4031	0.0500	-0.300	25.00
Dimethyl phthalate	1.2160	1.2651	0.0500	-4.000	25.00
Acenaphthylene	1.5320	1.5893	0.0500	-3.700	25.00
2,6-Dinitrotoluene	0.2820	0.2936	0.0500	-4.100	25.00
3-Nitroaniline	0.3220	0.3181	0.0500	1.200	25.00
Acenaphthene	0.8860	0.9422	0.0500	-6.300	20.00
2,4-Dinitrophenol	0.1670	0.0709	0.0500	57.500	40.00
4-Nitrophenol	0.1560	0.1501	0.0500	3.800	40.00
Dibenzofuran	1.4510	1.4799	0.0500	-2.000	25.00
2,4-Dinitrotoluene	0.3960	0.4074	0.0500	-2.900	25.00
Diethyl phthalate	1.2780	1.3357	0.0500	-4.500	25.00
4-Chlorophenyl phenyl ether	0.5790	0.6196	0.0500	-7.000	25.00
Fluorene	1.1310	1.1841	0.0500	-4.700	25.00
4-Nitroaniline	0.3280	0.3366	0.0500	-2.600	25.00
4,6-Dinitro-2-methylphenol	0.1510	0.1109	0.0500	26.600	40.00
N-nitrosodiphenylamine	0.5330	0.5745	0.0500	-7.800	20.00

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DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A3T0003226

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 121601

Lab File ID: Y59206 DFTPP Injection Date: 12/18/2003

Instrument ID: I50Y-A DFTPP Injection Time: 09:08

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	50.4		
68	Less than 2.0% of mass 69	0.6	(1.0)	1
69	Present	59.6		
70	Less than 2.0% of mass 69	0.1	(0.1)	1
127	40.0 - 60.0% of mass 198	48.6		
197	Less than 1.0% of mass 198	0.0		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.3		
275	10.0 - 30.0% of mass 198	22.8		
365	Greater than 1.00% of mass 198	2.3		
441	Present, but less than mass 443	11.0		
442	40.0 - 110.0% of mass 198	89.1		
443	17.0 - 23.0% of mass 442	16.4	(18.4)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A3C0007110-1	Y59207.RR	12/18/2003	09:27
2	SSTD050	A3C0007110-2	Y59208.RR	12/18/2003	10:10
3	Matrix Spike Blank	A3B1446101	Y59210.RR	12/18/2003	11:37
4	SBLK	A3B1446102	Y59211.RR	12/18/2003	12:20
5	GW03-012B-P5	A3C25501	Y59212.RR	12/18/2003	13:04
6	GW03-009A-P3	A3C25502	Y59213.RR	12/18/2003	13:47
7	GW03-012B-P6	A3C25503	Y59214.RR	12/18/2003	14:30
8	GW03-016A-P2	A3C25504	Y59215.RR	12/18/2003	15:14
9	GW03-016A-P2	A3C25504MS	Y59216.RR	12/18/2003	15:57
10	GW03-016A-P2	A3C25504SD	Y59217.RR	12/18/2003	16:40
11	GW03-012A-P2	A3C25901	Y59218.RR	12/18/2003	17:24

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) Name: STL Buffalo Contract: _____ Lab Samp ID: A3B1391502

) Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

:rix Spike - Client Sample No.: Method Blank

MPOUND	SPIKE ADDED UG/L	MSB CONCENTRATION UG/L	MSB % REC	#	QC LIMITS REC.	+
.drin	0.500	0	0	*	28 - 125	
.pha-BHC	0.500	0	0	*	37 - 134	
ta-BHC	0.500	0	0	*	44 - 135	
lta-BHC	0.500	0.0218	4	*	41 - 131	
mma-BHC (Lindane)	0.500	0	0	*	32 - 127	
4'-DDD	0.500	0.0103	2	*	49 - 142	
4'-DDE	0.500	0.0152	3	*	34 - 142	
4'-DDT	0.500	0.0371	7	*	50 - 141	
.eldrin	0.500	0.0184	4	*	46 - 136	
dosulfan I	0.500	0.00530	1	*	46 - 135	
dosulfan II	0.500	0	0	*	41 - 136	
dosulfan Sulfate	0.500	0	0	*	47 - 143	
drin aldehyde	0.500	0.0116	2	*	43 - 130	
drin	0.500	0.0278	6	*	30 - 147	
ptachlor	0.500	0.00550	1	*	37 - 125	
ptachlor epoxide	0.500	0	0	*	49 - 134	
thoxychlor	0.500	0	0	*	38 - 153	
drin ketone	0.500	0	0	*	70 - 130	

olumn to be used to flag recovery and RPD values with an asterisk

'alues outside of QC limits

ke recovery: 18 out of 18 outside limits

ments: _____

FORM III GC EXT

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3B1391501

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

atrix Spike - Client Sample No.: Matrix Spike Blank

COMPOUND	SPIKE ADDED UG/L	MSB CONCENTRATION UG/L	MSB % REC #	QC LIMITS REC.	+
Endrin ketone	0.500	0	0 *	70 - 130	

Column to be used to flag recovery and RPD values with an asterisk

Values outside of QC limits

pike recovery: 1 out of 1 outside limits

omments: _____

FORM III GC EXT

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A3B75401

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

latrix Spike - Client Sample No.: GW03-005A-P1

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.	+
Aldrin	0.500	0	0	0 *	28 - 125	
alpha-BHC	0.500	0	0	0 *	37 - 134	
beta-BHC	0.500	0	0	0 *	44 - 135	
delta-BHC	0.500	0	0.0262	5 *	41 - 131	
gamma-BHC (Lindane)	0.500	0	0	0 *	32 - 127	
4,4'-DDD	0.500	0	0	0 *	49 - 142	
4,4'-DDE	0.500	0	0.0130	3 *	34 - 142	
4,4'-DDT	0.500	0	0.0437	9 *	50 - 141	
Dieldrin	0.500	0	0.0197	4 *	46 - 136	
Endosulfan I	0.500	0	0	0 *	46 - 135	
Endosulfan II	0.500	0	0	0 *	41 - 136	
Endosulfan Sulfate	0.500	0	0	0 *	47 - 143	
Endrin aldehyde	0.500	0	0.0152	3 *	43 - 130	
Endrin	0.500	0	0.0424	8 *	30 - 147	
Heptachlor	0.500	0	0.00580	1 *	37 - 125	
Heptachlor epoxide	0.500	0	0.00170	0 *	49 - 134	
Methoxychlor	0.500	0	0	0 *	38 - 153	

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Aldrin	0.500	0	0 *	0	30	28 - 125	
alpha-BHC	0.500	0	0 *	0	30	37 - 134	
beta-BHC	0.500	0	0 *	0	30	44 - 135	
delta-BHC	0.500	0.0263	5 *	0	30	41 - 131	
gamma-BHC (Lindane)	0.500	0	0 *	0	30	32 - 127	
4,4'-DDD	0.500	0	0 *	0	30	49 - 142	
4,4'-DDE	0.500	0.0133	3 *	0	30	34 - 142	
4,4'-DDT	0.500	0.0444	9 *	0	30	50 - 141	
Dieldrin	0.500	0.0203	4 *	0	30	46 - 136	
Endosulfan I	0.500	0	0 *	0	30	46 - 135	
Endosulfan II	0.500	0	0 *	0	30	41 - 136	
Endosulfan Sulfate	0.500	0	0 *	0	30	47 - 143	
Endrin aldehyde	0.500	0.0146	3 *	0	30	43 - 130	
Endrin	0.500	0.0440	9 *	12	30	30 - 147	
Heptachlor	0.500	0.00590	1 *	0	30	37 - 125	
Heptachlor epoxide	0.500	0.00170	0 *	0	30	49 - 134	
Methoxychlor	0.500	0	0 *	0	30	38 - 153	

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WATER MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

ıb Name: STL Buffalo Contract: _____ Lab Samp ID: A3B75401

ıb Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120201

ıtrix Spike - Client Sample No.: GW03-005A-P1

COMPOUND	SPIKE ADDED UG/L	SAMPLE CONCENTRATION UG/L	MS CONCENTRATION UG/L	MS % REC #	QC LIMITS REC.	+
Endrin ketone	0.500	0	0	0 *	70 - 130	

COMPOUND	SPIKE ADDED UG/L	MSD CONCENTRATION UG/L	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.	+
Endrin ketone	0.500	0	0 *	0	30	70 - 130	

Column to be used to flag recovery and RPD values with an asterisk

Values outside of QC limits

PD: 0 out of 1 outside limits
pike recovery: 2 out of 2 outside limits

omments: _____

FORM III GC EXT

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STL Buffalo
Date: 12/22/2003
Time: 17:01:45

Organic Prep Log Book
(3510C) 8081 PESTICIDE WATERS
A3B13915 (Closed)

Rept: AN050

Surrogate Amount: 1000.00 ul

Matrix Spike Amount: 500.00 ul

Date Ext/Initials: 12/05/2003 DRW

Date Cleanup/Initials: _____ _____

Extraction Type: SEPF or CLLE (circle one) AQUEOUS EXTRACTIONS

Date Conc/Initials: 12/06/2003 KAC

Job Number	Sample ID	Bottle ID	Sample Type	Vial #	Test	Protoc	Method	Surr Code	Spike Code	Appear.	Initial pH	Sample Volume (ml)	Final Volume (ml)
A3B13915	A3B1391501		MSB	AW30016779	TC PEST	SW8463	8081	A00035	A00051	_____	5.00	250.0000	10.00
A3B13915	A3B1391502		MBLK	AW30016780	TC PEST	SW8463	8081	A00035	_____	_____	5.00	250.0000	10.00
A03-B746	A3B74601	A	FS	AW30016781	TC PEST	SW8463	8081	A00035	_____	_____	6.00	250.0000	10.00
A3B13915	A3B1391501		MSB	AW30016779	TCL Pest	SW8463	8081	A00035	A00051	_____	5.00	1000.0000	1.00
A3B13915	A3B1391502		MBLK	AW30016780	TCL Pest	SW8463	8081	A00035	_____	_____	5.00	1000.0000	1.00
A03-B754	A3B75401	A	FS	AW30016782	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1045.0000	1.00
A03-B754	A3B75401MS	A	MS	AW30016783	TCL Pest	SW8463	8081	A00035	A00051	_____	6.00	1000.0000	1.00
A03-B754	A3B75401SD	A	SD	AW30016784	TCL Pest	SW8463	8081	A00035	A00051	_____	6.00	1000.0000	1.00
A03-B754	A3B75402	A	FS	AW30016785	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1000.0000	1.00
A03-B754	A3B75403	A	FS	AW30016786	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1055.0000	1.00
A03-B754	A3B75404	A	FS	AW30016787	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1055.0000	1.00
A03-B754	A3B75405	A	FS	AW30016788	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1045.0000	1.00
A03-B754	A3B75406	A	FS	AW30016789	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1045.0000	1.00
A03-B759	A3B75901	A	FS	AW30016790	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	990.0000	1.00
A03-B759	A3B75902	A	FS	AW30016791	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1050.0000	1.00
A03-B759	A3B75903	A	FS	AW30016792	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1055.0000	1.00

not used

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STL Buffalo
Date: 12/22/2003
Time: 17:01:45

Organic Prep Log Book
(3510C) 8081 PESTICIDE WATERS
A3B13915 (Closed)

Rept: AN05C

Surrogate Amount: 100.00 ul

Matrix Spike Amount: 500.00 ul

Date Ext/Initials: 12/05/2003 DRW

Date Cleanup/Initials: _____ _____

Extraction Type: SEPF or CLLE (circle one)

AQUEOUS EXTRACTIONS

Date Conc/Initials: 12/06/2003 KAC

Job Number	Sample ID	Bottle ID	Sample Type	Vial #	Test	Protoc	Method	Surr Code	Spike Code	Appear.	Initial pH	Sample Volume (ml)	Final Volume (ml)
A03-B759	A3B75904	A	FS	AW30016793	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1000.0000	1.00

Comments:

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STL Buffalo
Date: 12/22/2003
Time: 17:02:08

Organic Prep Log Book
(3510C) 8081 PESTICIDE WATERS
A3B14243 (Closed)

Rept: AN05(

Surrogate Amount: 1000.00 ul

Matrix Spike Amount: 500.00 ul

Date Ext/Initials: 12/12/2003 CM

Date Cleanup/Initials: _____ _____

Extraction Type: SEPF or CLLE (circle one) AQUEOUS EXTRACTIONS

Date Conc/Initials: 12/13/2003 CM

Job Number	Sample ID	Bottle ID	Sample Type	Vial #	Test	Protoc	Method	Surr Code	Spike Code	Appear.	Initial pH	Sample Volume (ml)	Final Volume (ml)
A3B14243	A3B1424301		MSB	AW30017119	TC PEST	SW8463	8081	A00035	A00051	_____	5.00	1000.0000	10.00
A3B14243	A3B1424302		MBLK	AW30017120	TC PEST	SW8463	8081	A00035	_____	_____	5.00	1000.0000	10.00
A03-B746	A3B74601RE	B	RE	AW30017121	TC PEST	SW8463	8081	A00035	_____	_____	5.00	1030.0000	10.00
A3B14243	A3B1424301		MSB	AW30017119	TCL Pest	SW8463	8081	A00035	A00051	_____	5.00	1000.0000	10.00
A3B14243	A3B1424302		MBLK	AW30017120	TCL Pest	SW8463	8081	A00035	_____	_____	5.00	1000.0000	10.00
A03-B754	A3B75401C	M	MSRE ✓	AW30017122	TCL Pest	SW8463	8081	A00035	A00051	_____	7.00	1025.0000	10.00
A03-B754	A3B75401D	M	MSDRE ✓	AW30017123	TCL Pest	SW8463	8081	A00035	A00051	_____	7.00	1025.0000	10.00
A03-B754	A3B75401RE	M	RE ✓	AW30017124	TCL Pest	SW8463	8081	A00035	_____	_____	7.00	1000.0000	10.00
A03-B754	A3B75402RE	B	RE ✓	AW30017125	TCL Pest	SW8463	8081	A00035	_____	_____	7.00	1060.0000	10.00
A03-B754	A3B75403RE	B	RE ✓	AW30017126	TCL Pest	SW8463	8081	A00035	_____	_____	6.00	1060.0000	10.00
A03-B754	A3B75404RE	B	RE ✓	AW30017127	TCL Pest	SW8463	8081	A00035	_____	_____	7.00	1000.0000	10.00
A03-B754	A3B75405RE	B	RE ✓	AW30017128	TCL Pest	SW8463	8081	A00035	_____	_____	7.00	1020.0000	10.00
A03-B754	A3B75406RE	B	RE ✓	AW30017129	TCL Pest	SW8463	8081	A00035	_____	_____	7.00	1000.0000	10.00
A03-B759	A3B75901RE	B	RE ✓	AW30017130	TCL Pest	SW8463	8081	A00035	_____	_____	7.00	1060.0000	10.00
A03-B759	A3B75902RE	B	RE ✓	AW30017131	TCL Pest	SW8463	8081	A00035	_____	_____	7.00	1060.0000	10.00
A03-B759	A3B75903RE	B	RE ✓	AW30017132	TCL Pest	SW8463	8081	A00035	_____	_____	7.00	995.0000	10.00

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STL Buffalo
Date: 12/22/2003
Time: 17:02:08

Organic Prep Log Book
(3510C) 8081 PESTICIDE WATERS
A3B14243 (Closed)

Rept: AN05(

Surrogate Amount: 1000.00 ul

Matrix Spike Amount: 500.00 ul

Date Ext/Initials: 12/12/2003 CM

Date Cleanup/Initials: _____ _____

Extraction Type: SEPF or CLLE (circle one)

AQUEOUS EXTRACTIONS

Date Conc/Initials: 12/13/2003 CM

Job Number	Sample ID	Bottle ID	Sample Type	Vial #	Test	Protoc	Method	Surr Code	Spike Code	Appear.	Initial pH	Sample Volume (ml)	Final Volume (ml)
A03-B759	A3B75904RE	B	RE	AW30017133	TCL Pest	SW8463	8081	A00035			7.00	980.0000	10.00
A03-C083	A3C08301	A	FS	AW30017134	TCL Pest	SW8463	8081	A00035			7.00	1000.0000	10.00
A03-C083	A3C08302	A	FS	AW30017135	TCL Pest	SW8463	8081	A00035			7.00	1030.0000	10.00
A03-C083	A3C08303	A	FS	AW30017136	TCL Pest	SW8463	8081	A00035			6.00	995.0000	10.00

Comments: A3B74601RE HAD TO BE CENTRIFUGED. CM 12-12-03

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Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120301

Lab Sample ID: A3B1405702 Lab File ID: RA30458.TX0

Matrix: (soil/water) WATER Extraction: SEPF

Sulfur Cleanup: (Y/N): Y Date Extracted: 12/10/2003

Date Analyzed (1): 12/14/2003 Date Analyzed (2): _____

Time Analyzed (1): 14:28 Time Analyzed (2): _____

Instrument ID (1): HP5890-18 Instrument ID (2): _____

GC Column (1): RTXCLPI Dia: 0.53 (mm) GC Column (2): _____ Dia: ____ (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
1	GW03-009B-P6	A3B88502	12/12/2003	
2	GW03-013A-P3	A3B88505	12/14/2003	
3	GW03-014B-P5	A3B88501	12/12/2003	
4	GW03-014B-P5MS	A3B88501MS	12/12/2003	
5	GW03-014B-P5SD	A3B88501SD	12/12/2003	
6	Matrix Spike Blank	A3B1405701	12/14/2003	

Comments: _____

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METHOD 8081 - TCL PESTICIDES
ANALYSIS DATA SHEET

Client No.

Method Blank

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 120801

Matrix: (soil/water) WATER Lab Sample ID: A3B1405702

Sample wt/vol: 1000.00 (g/mL) ML Lab File ID: RA30458.TX0

% Moisture: _____ decanted: (Y/N) N Date Samp/Recv: _____ _____

Extraction: (SepF/Cont/Sonc/Soxh) : SEPF Date Extracted: 12/10/2003

Concentrated Extract Volume: 10000 (uL) Date Analyzed: 12/14/2003

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.00 Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
309-00-2	Aldrin	0.050	U
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
319-86-8	delta-BHC	0.050	U
72-54-8	4,4'-DDD	0.050	U
72-55-9	4,4'-DDE	0.050	U
50-29-3	4,4'-DDT	0.050	U
60-57-1	Dieldrin	0.050	U
959-98-8	Endosulfan I	0.050	U
33213-65-9	Endosulfan II	0.050	U
1031-07-8	Endosulfan Sulfate	0.050	U
72-20-8	Endrin	0.048	J
7421-93-4	Endrin aldehyde	0.050	U
76-44-8	Heptachlor	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
72-43-5	Methoxychlor	0.050	U
8001-35-2	Toxaphene	1.0	U
53494-70-5	Endrin ketone	0.072	U
5103-74-2	gamma-Chlordane	0.050	U
5103-71-9	alpha-Chlordane	0.050	U

FORM I - GC EXT

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10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-015C-P7

Lab Name: STL Buffalo

Case No.: SDG No.: 120801

Lab Sample ID : A3B97002 Dates(s) Analyzed: 12/13/03 12/13/03

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	TO	CONC.	%D
delta-BHC	1	13.14	13.17	13.27	0.053	45.3
	2	14.68	14.68	14.78	0.029	

FORM X PEST

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10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-015A-P1

Lab Name: STL Buffalo

Case No.: SDG No.: 120801

Lab Sample ID : A3B89701 Dates(s) Analyzed: 12/13/03 12/13/03

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
delta-BHC	1	13.15	13.17	13.27	0.057	40.4
	2	14.68	14.68	14.78	0.034	

FORM X PEST

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW03-017C-P7

Lab Name: STL Buffalo

Case No.: SDG No.: 120801

Lab Sample ID : A3C03201 Dates(s) Analyzed: 12/13/03 12/13/03

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	TO	CONC.	%D
beta-BHC	1	12.73	12.69	12.79	0.026	92.3
	2	13.94	13.90	14.00	0.050	

FORM X PEST

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW03-016B-P4

Lab Name: STL Buffalo

Case No.: SDG No.: 121201

Lab Sample ID : A3C15003 Dates(s) Analyzed: 12/17/03 12/17/03

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	TO	CONC.	%D
beta-BHC	1	12.79	12.75	12.85	0.032	53.1
	2	13.92	13.88	13.98	0.049	

FORM X PEST

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW03-017C-P8

Lab Name: STL Buffalo

Case No.: SDG No.: 121201

Lab Sample ID : A3C20801 Dates(s) Analyzed: 12/22/03 12/22/03

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	TO	CONC.	%D
beta-BHC	1	12.85	12.80	12.90	0.062	
	2	13.92	13.87	13.97	0.088	41.9

FORM X PEST

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10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-016A-P2

Lab Name: STL Buffalo

Case No.:

SDG No.: 121601

Lab Sample ID : A3C25504

Dates(s) Analyzed: 12/18/2003 12/18/2003

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	TO	CONC.	%D
beta-BHC	1	12.74	12.75	12.85	0.087	
	2	13.93	13.88	13.98	0.029	66.7
delta-BHC	1	13.21	13.24	13.34	0.078	
	2	14.65	14.68	14.78	0.092	17.9

FORM X PEST

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW03-016B-P5

Lab Name: STL Buffalo

Case No.:

SDG No.: 121601

Lab Sample ID : A3C29402

Dates(s) Analyzed: 12/23/03 12/23/03

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	TO	CONC.	%D
beta-BHC	1	12.86	12.81	12.91	0.035	65.7
	2	13.91	13.87	13.97	0.058	

FORM X PEST

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STL BUFFALO

Client Sample ID: GW03-010B-P5

Trace Level Organic Compounds

Lot-Sample #...: H3L050135-001 Work Order #...: F53KW1AA Matrix.....: WATER
Date Sampled...: 12/03/03 Date Received..: 12/05/03
Prep Date.....: 12/18/03 Analysis Date..: 12/23/03
Prep Batch #...: 3352226
Dilution Factor: 1

PARAMETER	RESULT	DETECTION LIMIT	UNITS	METHOD
2,3,7,8-TCDD	ND UJ	1.8	pg/L	SW846 8290

INTERNAL STANDARDS	PERCENT RECOVERY	RECOVERY LIMITS
13C-2,3,7,8-TCDD	179 *	(40 - 135)

NOTE(S):

* Surrogate recovery is outside stated control limits.

1/23/04

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STL - Knoxville

IsoCalc Preliminary Peak Report

TCDD/F by EPA Method 8290 - DB-225

IsoCalc

Workorder	F6FVT1AA	Prep Batch	3352226	Lot No	H3L110168-004
Data File	/20031227s1/cff6fvt.d	Prep Date	12/18/03	SDG No	
Analysis ID	73102	Prep Exp Date	01/09/04	Date Received	12/11/03
Analysis Date	12/27/03 11:32	Matrix	AQUEOUS	Date Sampled	12/10/03
Anal Exp Date	02/01/04	Initial Wt/Vol	1050 mL	Lims Test Code	XXI09IN01
Instrument	M3C	Extract Vol	20 uL	Method	DX8290_Conf
Analyst	BFW	Diluton Factor	1.00	Code	INc

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
304					303.9016	305.8987	303.9016	305.8987	0.65-0.89		
	Noise	00:00	00:00	0	60	90	24	36	0.67	/	
316					315.9419	317.9389	315.9419	317.9389	0.65-0.89		
	Noise	00:00	00:00	0	133	115	53	46	1.15 *	/	
	13C-2,3,7,8-TCDF	20:11	20:11	0	209633	268638	39220	51336	0.78	ABV/ABV	
320					319.8965	321.8936	319.8965	321.8936	0.65-0.89		
	Noise	00:00	00:00	0	95	93	38	37	1.03 *	/	
	2,3,7,8-TCDD	18:21	18:20	1	741	1606	289	325	0.46 *	MVB/MVB	RM
328					327.8847		327.8847				
	Noise	00:00	00:00	0	68		27				
	Unidentified	18:21	00:00	0	4671		868			AVV	M
332					331.9368	333.9338	331.9368	333.9338	0.65-0.89		
	Noise	00:00	00:00	0	205	148	82	59	1.39 *	/	
	13C-2,3,7,8-TCDD	18:19	18:19	0	170227	212750	34706	42875	0.80	AVV/ABV	
	13C-1,2,3,4-TCDD	18:42	18:42	0	365056	456675	68133	87700	0.80	AVV/AVV	

GW03-005A-P2

ratio off
2/26/04 JM

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peak outside RT delta D = peak shifted from ccal W = peak outside first/last X = peak has dup match

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IsoCalc Preliminary Peak Report

TCDD/F by EPA Method 8290 - DB-225

IsoCalc

Workorder	F6FVX1AA	Prep Batch	3352226	Lot No	H3L110168-006
Data File	/20031227s1/cff6fvx.d	Prep Date	12/18/03	SDG No	
Analysis ID	73104	Prep Exp Date	01/08/04	Date Received	12/11/03
Analysis Date	12/27/03 12:36	Matrix	AQUEOUS	Date Sampled	12/09/03
Anal Exp Date	02/01/04	Initial Wt/Vol	1050 mL	Lims Test Code	XXI09IN01
Instrument	M3C	Extract Vol	20 uL	Method	DX8290_Conf
Analyst	BFW	Diluton Factor	1.00	Code	INc

View Small Peaks? False View deleted peaks? False

Mass	Peak Name	RT	Pred RT	Δ	Area 1	Area 2	Height1	Height2	Ratio	Integration	Flags
304					303.9016	305.8987	303.9016	305.8987	0.65-0.89		
	Noise	00:00	00:00	0	68	88	27	35	0.77	/	
316					315.9419	317.9389	315.9419	317.9389	0.65-0.89		
	Noise	00:00	00:00	0	103	150	41	60	0.68	/	
	13C-2,3,7,8-TCDF	20:10	20:10	0	303076	392266	55156	71597	0.77	ABV/ABV	
320					319.8965	321.8936	319.8965	321.8936	0.65-0.89		
	Noise	00:00	00:00	0	85	103	34	41	0.83	/	
	2,3,7,8-TCDD	18:24	18:19	5	382	976	154	238	0.39 *	MVV/AVB	RM
328					327.8847		327.8847				
	Noise	00:00	00:00	0	68		27				
332					331.9368	333.9338	331.9368	333.9338	0.65-0.89		
	Noise	00:00	00:00	0	170	100	68	40	1.70 *	/	
	13C-2,3,7,8-TCDD	18:19	18:18	1	253456	332408	50821	70009	0.76	ABV/ABV	
	13C-1,2,3,4-TCDD	18:40	18:41	-1	416203	523534	81688	101732	0.79	AVV/AVV	

GW03-0150-P7

ratio off

2/26/04 gr

Notes:
R = ratio is outside limits M = data changed manually N = Peak not reported S = peak less than 2.5x S/N
T = peak outside RT delta D = peak shifted from ccal W = peak outside first/last X = peak has dup match

Printed: 12/27/03 17:35

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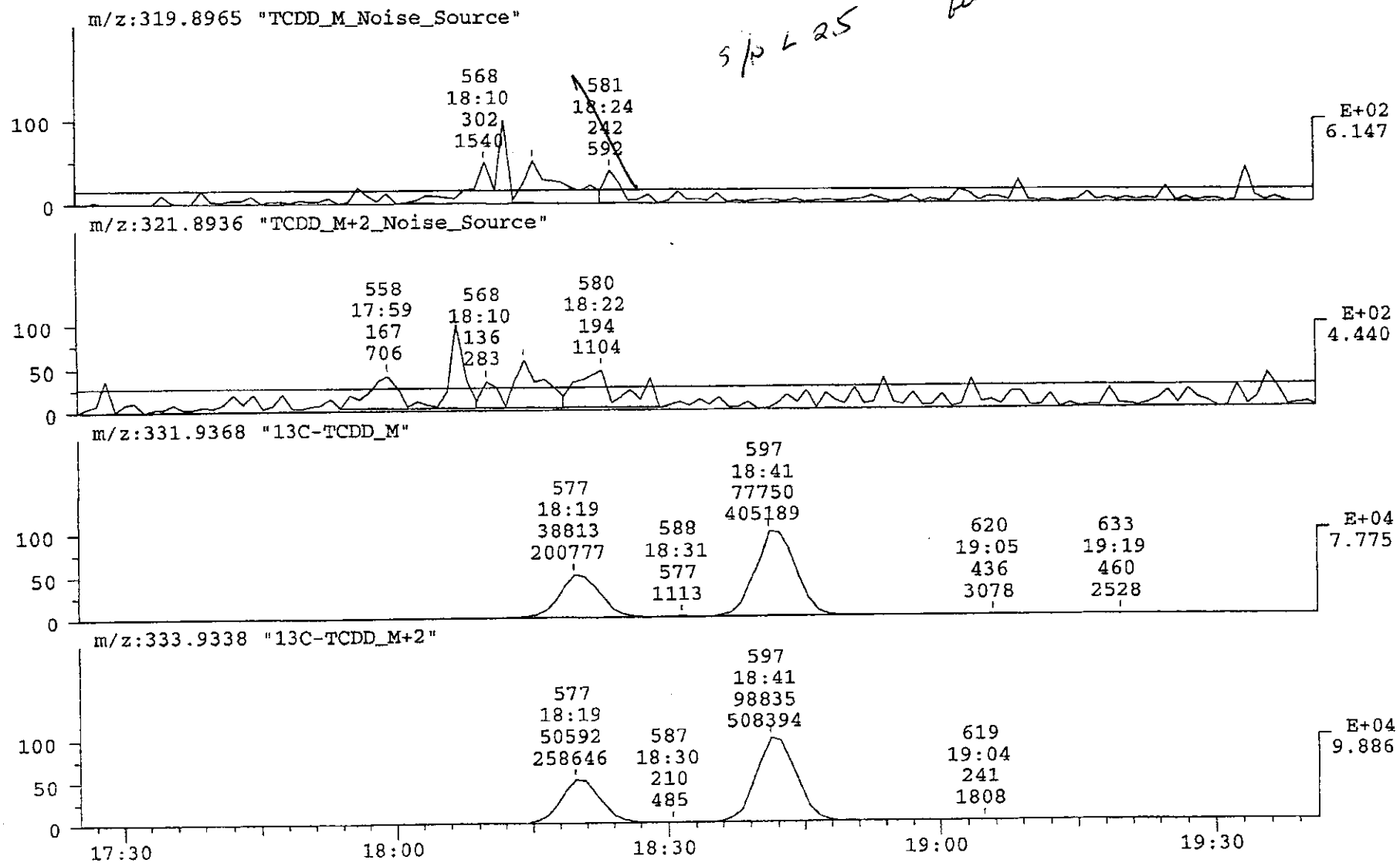
CHRO: cff6fvv 27-Dec-03 Elapse: 18:20.8 578
Samp: Vial 44 WO=f6fvv1aa Meth=INc Dil=1 Start : 12:04:32 1204
Comm: Inst=m3c/3131036 Batch=20031227s1 Ccal=20021119i
Mode: EI +VE +LMR ESCAN LR NRM Study : 3352226 (1.03L)
Oper: BFW Client: H3L110168-005 Inlet : GC Vial 44
Peak: 100.00 ppm Label wndw: 526 > 653 Masses: 293 > 376
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

5 pg L 2.5

HW3-015B-PE



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80

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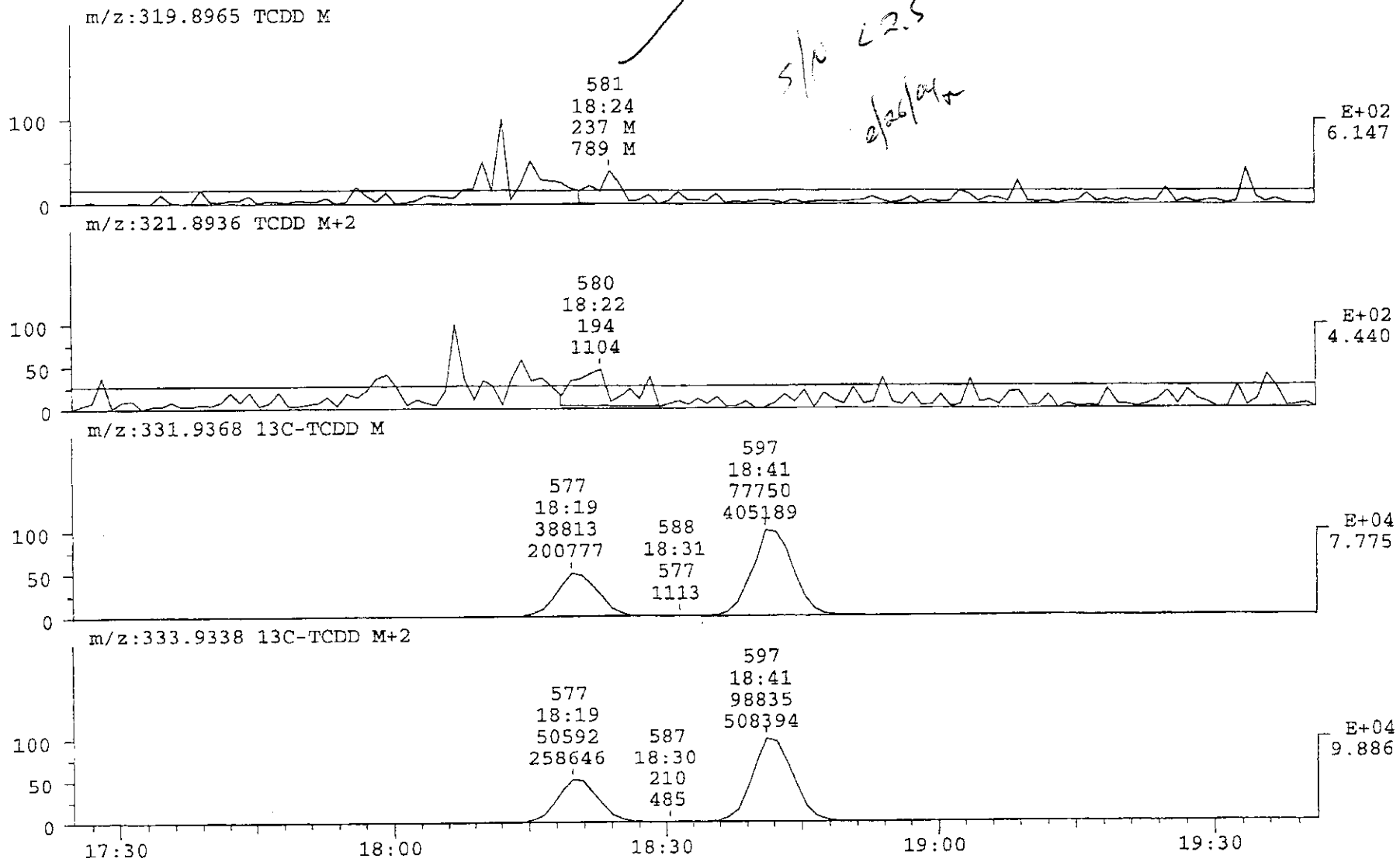
CHRO: cff6fvv 27-Dec-03 Elapse: 20:13.3 683
Samp: Vial 44 WO=f6fvv1aa Meth=INc Dil=1 Start : 12:04:32 1204
Comm: Inst=m3c/3131036 Batch=20031227s1 Ccal=20021119i
Mode: EI +VE +LMR ESCAN LR NRM Study : 3352226 (1.03L)
Oper: BFW Client: H3L110168-005 Inlet : GC Vial 44
Peak: 100.00 ppm Label wndw: 577 > 600 Masses: 293 > 376
Area: 5, 0.50, 15 Baseline : 100, 3 Label : -2, 3.0
Disp: Height Area

LWC3-015G-PL

S/N < 2.5
2/26/04



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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-013A-P1L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 120201

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	3.14		50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	144029.30		148382.41		3.0		P
Lead	2.59		30.00	U	100.0		P
Magnesium	46536.49		46494.45		0.1		P
Potassium	3116.90		2210.4 ug/L 12500.00	U	347 100.0		P
Sodium	330209.69		314882.81		4.6		P

1/23/04 JM

Assoc. with GW03-013A-P1 only

Comments: _____

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U R S Corporation

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-010B-P4L

ontract: NY03-281

ab Code: STLBFLO Case No.: SAS No.: SDG NO.: 120201

atrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Differ-ence	Q	M
Arsenic	16.31		<MDL 50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	182992.00		189509.09		3.6		P
Lead	6.00	U	30.00	U			P
Magnesium	42710.86		42385.80		0.8		P
Potassium	2620.83		2210 ug/L 2500.00	U	17% 100.0		P
Sodium	71119.28		65594.20		7.8		P

Assoc. with: GW03-006A-P1, -010B-P4, -011B-P4, -011C-P7

1/23/04 VM

Comments:

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 120301

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.12	60.0					

12/8 14:52

1/21/04 TM

Comments:

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-2B-

CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 120301

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA True	Found 12/8	%R 15.25	CRDL Standard for ICP Initial True	Initial Found	Initial %R	Final Found	Final %R
Mercury	0.2	0.15	75.0					

1/24/04 TM

Comments:

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ANALYSIS RUN LOG

ontract: NY03-281

ab Code: STLBFLO Case No.: SAS No.: SDG No.: 120301

nstrument ID Number: LEEMAN PS200II Method: CV

tart Date: 12/8/2003 End Date: 12/8/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	14:49																X									
ICB	1.00	14:50																X									
CRA (1090)	1.00	14:52																X									
ZZZZZZ	1.00	14:53																									
ZZZZZZ	1.00	14:54																									
ZZZZZZ	1.00	14:55																									
ZZZZZZ	1.00	14:57																									
ZZZZZZ	1.00	14:58																									
ZZZZZZ	1.00	15:00																									
ZZZZZZ	1.00	15:01																									
ZZZZZZ	1.00	15:02																									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:05																									
CCV	1.00	15:06																X									
CCB	1.00	15:07																X									
ZZZZZZ	1.00	15:08																									
ZZZZZZ	1.00	15:09																									
ZZZZZZ	1.00	15:11																									
ZZZZZZ	1.00	15:12																									
GW03-013B-P5	1.00	15:13																X									
GW03-013B-P4	1.00	15:14																X									
GW03-007A-P1	1.00	15:16																X									
GW03-007B-P4	1.00	15:17																X									
ZZZZZZ	1.00	15:18																									
LCS	1.00	15:19																X									
CCV	1.00	15:21																X									
CCB	1.00	15:22																X									
ZZZZZZ	1.00	15:23																									
ZZZZZZ	1.00	15:24																									
ZZZZZZ	1.00	15:26																									
ZZZZZZ	1.00	15:27																									
ZZZZZZ	1.00	15:28																									
ZZZZZZ	1.00	15:30																									

- Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

ntract: NY03-281

b Code: STLBFLO Case No.: SAS No.: SDG No.: 120301

strument ID Number: LEEMAN PS200II Method: CV

art Date: 12/8/2003 End Date: 12/8/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	15:31																									
ZZZZZZ	1.00	15:32																									
ZZZZZZ	1.00	15:33																									
ZZZZZZ	1.00	15:34																									
CCV ✓	1.00	15:36																X									
CCB	1.00	15:37																X									
ZZZZZZ	1.00	15:38																									
ZZZZZZ	1.00	15:39																									
ZZZZZZ	1.00	15:40																									
ZZZZZZ	1.00	15:43																									
ZZZZZZ	1.00	15:44																									
ZZZZZZ	1.00	15:45																									
ZZZZZZ	1.00	15:47																									
ZZZZZZ	1.00	15:48																									
ZZZZZZ	1.00	15:50																									
ZZZZZZ	1.00	15:51																									
CCV ✓	1.00	15:52																X									
CCB	1.00	15:53																X									
ZZZZZZ	1.00	15:55																									
ZZZZZZ	1.00	15:56																									
ZZZZZZ	1.00	15:57																									
ZZZZZZ	1.00	15:58																									
ZZZZZZ	1.00	16:00																									
ZZZZZZ	1.00	16:01																									
ZZZZZZ	1.00	16:02																									
ZZZZZZ	1.00	16:04																									
ZZZZZZ	1.00	16:05																									
GW03-009A-P1 ✓	1.00	16:06																X									
CCV ✓	1.00	16:07																X									
CCB	1.00	16:09																X									
GW03-009A-P2 ✓	1.00	16:10																X									
GW03-009B-P4 ✓	1.00	16:11																X									
GW03-009B-P5 ✓	1.00	16:13																X									

' - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

ntract: NY03-281

b Code: STLBFLO Case No.: SAS No.: SDG No.: 120301

strument ID Number: LEEMAN PS200II Method: CV

art Date: 12/8/2003 End Date: 12/8/2003

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-013C-P7	1.00	16:14																X									
GW03-014B-P4	1.00	16:15																X									
ZZZZZZ	1.00	16:17																									
ZZZZZZ	1.00	16:18																									
LCS	1.00	16:19																X									
Method Blank	1.00	16:21																X									
ZZZZZZ	1.00	16:22																									
CCV	1.00	16:23																X									
CCB	1.00	16:25																X									
Method Blank	1.00	16:26																X									
CCV	1.00	16:28																X									
CCB	1.00	16:29																X									

- Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

ontract: NY03-281

ab Code: STLBFLO Case No.: SAS No.: SDG No.: 120301

nstrument ID Number: LEEMAN PS200II Method: CV

tart Date: 12/8/2003 End Date: 12/8/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	15:22																X									
ICB	1.00	15:24																X									
CRA -15%10	1.00	15:25																X									
ZZZZZZ	1.00	15:26																									
ZZZZZZ	1.00	15:27																									
ZZZZZZ	1.00	15:28																									
ZZZZZZ	1.00	15:29																									
ZZZZZZ	1.00	15:31																									
ZZZZZZ	1.00	15:32																									
ZZZZZZ	1.00	15:33																									
ZZZZZZ	1.00	15:34																									
ZZZZZZ	1.00	15:37																									
ZZZZZZ	1.00	15:38																									
CCV	1.00	15:41																X									
CCB	1.00	15:43																X									
ZZZZZZ	1.00	15:44																									
ZZZZZZ	1.00	15:45																									
ZZZZZZ	1.00	15:46																									
ZZZZZZ	1.00	15:48																									
ZZZZZZ	1.00	15:49																									
ZZZZZZ	1.00	15:51																									
ZZZZZZ	1.00	15:52																									
ZZZZZZ	1.00	15:53																									
ZZZZZZ	1.00	15:54																									
ZZZZZZ	1.00	15:56																									
CCV	1.00	15:57																X									
CCB	1.00	15:58																X									
ZZZZZZ	1.00	15:59																									
ZZZZZZ	1.00	16:00																									
ZZZZZZ	1.00	16:02																									
ZZZZZZ	1.00	16:03																									
ZZZZZZ	1.00	16:04																									
ZZZZZZ	1.00	16:05																									

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ANALYSIS RUN LOG

ontract: NY03-281

ab Code: STLBFLO Case No.: SAS No.: SDG No.: 120301

nstrument ID Number: LEEMAN PS200II Method: CV

tart Date: 12/8/2003 End Date: 12/8/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	16:07																									
ZZZZZZ	1.00	16:08																									
ZZZZZZ	1.00	16:10																									
ZZZZZZ	1.00	16:11																									
CCV	1.00	16:13																X									
CCB	1.00	16:14																X									
ZZZZZZ	1.00	16:15																									
ZZZZZZ	1.00	16:17																									
ZZZZZZ	1.00	16:18																									
GW-03-008A-P3	1.00	16:19																X									
GW-03-006A-P5	1.00	16:21																X									
GW-03-004A-P2	1.00	16:22																X									
GW-03-004A-P1	1.00	16:23																X									
GW-03-010A-P2	1.00	16:24																X									
GW-03-011A-P3	1.00	16:25																X									
ZZZZZZ	1.00	16:27																									
CCV	1.00	16:28																X									
CCB	1.00	16:29																X									
LCS	1.00	16:30																X									
ZZZZZZ	1.00	16:32																									
Method Blank	1.00	16:33																X									
CCV	1.00	16:35																X									
CCB	1.00	16:37																X									

- Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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Job No: A03-B885

SBD=0.00,SED=0.00,ST=NT
SAMPLE DATE 12/08/2003

SDG: 120301
Client Sample ID: GW03-014B-P5 GW03-014B-P5MS
Lab Sample ID: A3B88501 A3B88501MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
METHOD 300.0 - CHLORIDE	MG/L	152.0	1260	1000	111	73-114
METHOD 300.0 - SULFATE	MG/L	74.73	92.50	50.00	36 *	75-125
METHOD 415.1 - TOTAL ORGANIC CARBON	MG/L	2.60	19.74	20.00	~~86~~	54-131

2/2/04 TR

4136/5179

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

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-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

GW03-015A-P2\MS

'ontract: NY03-281

ab Code: STLBFLO Case No.: SAS No.: SDG NO.: 120801

atrix (soil/water): WATER Level (low/med): LOW

Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	1.0067		0.2000	U	6.67	15.1	N	CV

1/26/04 JM

'omments:

Form V (PART 1) - IN SW846 3RD ED.

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U R S Corporation

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

GW03-015A-P2\SD

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 120801

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Mercury	75 - 125	1.0733		0.2000	U	6.67	16.1	N	CV

1/26/04 [illegible]

Comments:

Form V (PART 1) - IN

SW846 3RD ED.

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 120801

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/15/2003 End Date: 12/15/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV ✓	1.00	12:28																X									
ICB	1.00	12:29																X									
CRA Hg = 60%	1.00	12:30																X									
ZZZZZZ	1.00	12:31																									
ZZZZZZ	1.00	12:33																									
ZZZZZZ	1.00	12:34																									
ZZZZZZ	1.00	12:35																									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:38																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:40																									
ZZZZZZ	1.00	12:41																									
ZZZZZZ	1.00	12:42																									
CCV ✓	1.00	12:44																X									
CCB	1.00	12:45																X									
ZZZZZZ	1.00	12:46																									
ZZZZZZ	1.00	12:48																									
ZZZZZZ	1.00	12:49																									
ZZZZZZ	1.00	12:50																									
ZZZZZZ	1.00	12:51																									
ZZZZZZ	1.00	12:52																									
ZZZZZZ	1.00	12:54																									
ZZZZZZ	1.00	12:56																									
ZZZZZZ	1.00	12:57																									
ZZZZZZ	1.00	12:58																									
CCV ✓	1.00	13:00																X									
CCB	1.00	13:01																X									
ZZZZZZ	1.00	13:03																									
ZZZZZZ	1.00	13:04																									
ZZZZZZ	1.00	13:05																									
ZZZZZZ	1.00	13:06																									
ZZZZZZ	1.00	13:07																									
ZZZZZZ	1.00	13:08																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 120801

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/15/2003 End Date: 12/15/2003

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:10																									
ZZZZZZ	1.00	13:11																									
ZZZZZZ	1.00	13:13																									
ZZZZZZ	1.00	13:14																									
CCV	1.00	13:15																X									
CCB	1.00	13:16																X									
ZZZZZZ	1.00	13:18																									
ZZZZZZ	1.00	13:19																									
ZZZZZZ	1.00	13:20																									
GW03-017A-P2	1.00	13:21																X									
GW03-017A-P2MD	1.00	13:22																X									
GW03-017A-P2MS	1.00	13:24																X									
ZZZZZZ	1.00	13:25																									
ZZZZZZ	1.00	13:26																									
ZZZZZZ	1.00	13:28																									
LCS	1.00	13:29																X									
CCV	1.00	13:30																X									
CCB	1.00	13:32																X									
ZZZZZZ	1.00	13:33																									
ZZZZZZ	1.00	13:34																									
ZZZZZZ	1.00	13:36																									
ZZZZZZ	1.00	13:37																									
ZZZZZZ	1.00	13:38																									
ZZZZZZ	1.00	13:40																									
ZZZZZZ	1.00	13:41																									
Method Blank	1.00	13:42																X									
ZZZZZZ	1.00	13:43																									
CCV	1.00	13:46																X									
CCB	1.00	13:47																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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MTL-ACTS

RESULTS:

Sample #	(5103)349-0163 GW03-017C-P8	(5103)349-0165 EB1-121503
Total Plate Count	540 cfu/mL	100 cfu/mL
E. Coli	Negative	Negative
Total Coliform	< 20/100 mL	< 20/100 mL

Sample #	(5103)349-0166 GW03-012C-P7	(5103)349-0167 GW03-016C-P7
Total Plate Count	6,500 cfu/mL	47 cfu/mL
E. Coli	Negative	Positive
Total Coliform	< 20/100 mL	120/100 mL

Sample #	(5103)349-0168 GW03-016C-P7-MD
Total Plate Count	est. 18 cfu/mL
E. Coli	Positive
Total Coliform	70/100 mL

RPD = 89% for plate ct.
53% for coliform
2/24/04

est. = Refers to actual plate counts not in the range of 25 to 250 colonies. When these counts are performed on diluted samples, the final count may appear to be within this range, when in actuality it was not.
cfu = colony forming units
mL = milliliter
< = less than
Total Coliform results are reported as colonies per 100 milliliters.
ELAP ID #10247

Date sampled: 12/15/03
Time sampled: 10:30am; 12:30pm; 12:30pm; 9:45am: 9:45am
Date Received: 12/15/03
Time Received: 16:11pm
Received temperature: 7.2°C
Residual chlorine: negative
Date analyzed: 12/15/03
Time analyzed/Analyst: 16:30pm: PJA

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 121201

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L 12/17

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial		01:18	Final	06:29
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	19.06	95.3	19.90	99.5
Cadmium				10.0	10.32	103.2	10.78	107.8
Calcium				5000.0	4990.91	99.8	5227.29	104.5
Lead				6.0	5.61	93.5	7.40	123.3
Magnesium				5000.0	5026.30	100.5	5251.92	105.0
Potassium				5000.0	5669.55	113.4	5757.33	115.1
Sodium				5000.0	4956.71	99.1	5222.71	104.5

1/25/06

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121201

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 12/17/03 End Date: 12/17/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	03:15																									
CCV	1.00	03:21				X			X	X					X	X				X			X				
CCB	1.00	03:26				X			X	X					X	X				X			X				
ZZZZZZ	1.00	03:30																									
ZZZZZZ	1.00	03:35																									
ZZZZZZ	1.00	03:39																									
ZZZZZZ	5.00	03:43																									
ZZZZZZ	1.00	03:48																									
ZZZZZZ	1.00	03:52																									
ZZZZZZ	1.00	03:57																									
ZZZZZZ	1.00	04:01																									
ZZZZZZ	5.00	04:05																									
ZZZZZZ	1.00	04:10																									
CCV	1.00	04:16				X			X	X					X	X				X			X				
CCB	1.00	04:20				X			X	X					X	X				X			X				
ZZZZZZ	1.00	04:25																									
GW03-017B-P5	1.00	04:29				X			X	X					X	X				X			X				
GW03-017B-P5L	5.00	04:33				X			X	X					X	X				X			X				
GW03-017B-P5A	1.00	04:38				X			X	X					X	X				X			X				
GW03-016A-P3	1.00	04:42				X			X						X	X											
GW03-002A-P2	1.00	04:47				X			X						X												
GW03-002A-P2L	5.00	04:51				X			X						X												
GW03-002A-P2A	1.00	04:55				X			X						X												
GW03-016A-P1	1.00	05:00				X			X	X					X	X				X			X				
GW03-016B-P4	1.00	05:04				X			X	X					X	X				X			X				
CCV	1.00	05:10				X			X	X					X	X				X			X				
CCB	1.00	05:15				X			X	X					X	X				X			X				
ZZZZZZ	1.00	05:19																									
ZZZZZZ	5.00	05:23																									
ZZZZZZ	1.00	05:28																									
ZZZZZZ	1.00	05:32																									
ZZZZZZ	1.00	05:37																									
ZZZZZZ	1.00	05:41																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121201

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 12/17/03 End Date: 12/17/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	05:46																									
ZZZZZZ	1.00	05:50																									
ZZZZZZ	1.00	05:54																									
ZZZZZZ	1.00	05:59																									
CCV ✓	1.00	06:06				X			X	X					X	X				X			X				
CCB ✓	1.00	06:10				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:15																									
ZZZZZZ	1.00	06:19																									
CRI Pb=123%	1.00	06:29				X			X	X					X	X				X			X				
ICSA ✓	1.00	06:33				X			X	X					X	X				X			X				
ICSAB	1.00	06:38				X			X	X					X	X				X			X				
CCV ✓	1.00	06:43				X			X	X					X	X				X			X				
CCB ✓	1.00	06:48				X			X	X					X	X				X			X				

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

'ontract: NY03-281

ab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 121201

A CRDL Standard Source: _____

CP CRDL Standard Source: VHG 12/15

Concentration Units: ug/L

Analyte	CRDL Standard for AA 12:30			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.12	60.0					

1/5/06

omments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 121201

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/15/03 End Date: 12/15/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	12:28																X									
ICB	1.00	12:29																X									
CRA Hg = 60/0	1.00	12:30																X									
ZZZZZZ	1.00	12:31																									
ZZZZZZ	1.00	12:33																									
ZZZZZZ	1.00	12:34																									
ZZZZZZ	1.00	12:35																									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:38																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:40																									
ZZZZZZ	1.00	12:41																									
ZZZZZZ	1.00	12:42																									
CCV	1.00	12:44																X									
CCB	1.00	12:45																X									
ZZZZZZ	1.00	12:46																									
ZZZZZZ	1.00	12:48																									
ZZZZZZ	1.00	12:49																									
ZZZZZZ	1.00	12:50																									
ZZZZZZ	1.00	12:51																									
ZZZZZZ	1.00	12:52																									
ZZZZZZ	1.00	12:54																									
ZZZZZZ	1.00	12:56																									
ZZZZZZ	1.00	12:57																									
ZZZZZZ	1.00	12:58																									
CCV	1.00	13:00																X									
CCB	1.00	13:01																X									
ZZZZZZ	1.00	13:03																									
ZZZZZZ	1.00	13:04																									
ZZZZZZ	1.00	13:05																									
ZZZZZZ	1.00	13:06																									
ZZZZZZ	1.00	13:07																									
ZZZZZZ	1.00	13:08																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121201

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/15/03 End Date: 12/15/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	13:10																									
ZZZZZZ	1.00	13:11																									
ZZZZZZ	1.00	13:13																									
ZZZZZZ	1.00	13:14																									
CCV	1.00	13:15																X									
CCB	1.00	13:16																X									
GW03-002A-P2	1.00	13:18																X									
GW03-016A-P1	1.00	13:19																X									
GW03-016B-P4	1.00	13:20																X									
ZZZZZZ	1.00	13:21																									
ZZZZZZ	1.00	13:22																									
ZZZZZZ	1.00	13:24																									
ZZZZZZ	1.00	13:25																									
ZZZZZZ	1.00	13:26																									
ZZZZZZ	1.00	13:28																									
LCS	1.00	13:29																X									
CCV	1.00	13:30																X									
CCB	1.00	13:32																X									
ZZZZZZ	1.00	13:33																									
ZZZZZZ	1.00	13:34																									
ZZZZZZ	1.00	13:36																									
ZZZZZZ	1.00	13:37																									
ZZZZZZ	1.00	13:38																									
ZZZZZZ	1.00	13:40																									
ZZZZZZ	1.00	13:41																									
Method Blank	1.00	13:42																X									
ZZZZZZ	1.00	13:43																									
CCV	1.00	13:46																X									
CCB	1.00	13:47																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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SBD=0.00,SED=0.00,ST=N1
SAMPLE DATE 12/15/2003

SDG: 121201
Client Sample ID: GW03-016C-P7 GW03-016C-P7
Lab Sample ID: A3C20704 A3C20704MD

Analyte	Units of Measure	Concentration Sample	Concentration Duplicate	Mean	Relative % Difference
WET CHEMISTRY ANALYSIS					
E Coli	TEXT	POSITIVE	POSITIVE	NC	0.0
Heterotrophic Plate Count	CFU/ML	47.0	18.0	32.5	89.2
Total Bacteria Coliform	CFU/0.1L	120	70.0	95.0	52.6

2/4/2002

2847/3637

NC = Not Calculated ND = Not Detected

STL Buffalo

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-012A-P3L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 121601

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	5.85		50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	8103382.00		8519520.00		5.1		P
Lead	38.91		53.10		36.5		P
Magnesium	2990966.00		3139960.00		5.0		P
Potassium	443406.00		375225 1250000.00	U	16.7 ~~100~~.0		P
Sodium	26799540.00		27375950.00		2.2		P

1/27/04 [illegible]

Comments: _____

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-014A-P3L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 121601

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.34		50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	3008285.00		14569250.00		384.3		P
Lead	6.00	U	30.00	U			P
Magnesium	940775.00		4708525.00		400.5	E	P
Potassium	623477.50		544875 490020.00		13.5 21.4		P
Sodium	6021370.00		38509248.00		539.5		P

2/19/04

Comments: _____

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BLANKS

ontract: NY03-281

ab Code: STLBFLO Case No.: SAS No.: SDG NO.: 121601

reparation Blank Matrix (soil/water): WATER

reparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.1	U	-0.2		-0.1		-0.1		-0.253		CV

Assoc. w/ 403-016C-P8 only

1/27/04

Comments:

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 121601

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.13	65.0					

12/19/03 @ 14:36

1/27/04 [illegible]

Comments:

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

ntract: NY03-281

b Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 121601

. CRDL Standard Source: _____

CP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.12	60.0					

12/19/03 e 11:55

1/27/04 JR

Comments:

Form II (Part 2) - IN

SW846 3RD E

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

ontract: NY03-281

ab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 121601

A CRDL Standard Source: _____

CP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Mercury	0.2	0.12	60.0					

12/18/03 @ 12:17

1/27/04

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/19/03 End Date: 12/19/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV10	1.00	14:32																X									
ICB10	1.00	14:34																X									
CRDL1 Hg = 65%	1.00	14:36																X									
ZZZZZZ	1.00	14:37																									
ZZZZZZ	1.00	14:38																									
ZZZZZZ	1.00	14:39																									
ZZZZZZ	1.00	14:40																									
ZZZZZZ	1.00	14:42																									
ZZZZZZ	1.00	14:43																									
ZZZZZZ	1.00	14:44																									
ZZZZZZ	1.00	14:46																									
ZZZZZZ	1.00	14:47																									
ZZZZZZ	1.00	14:48																									
CCV1	1.00	14:49																X									
CCB1	1.00	14:50																X									
ZZZZZZ	1.00	14:51																									
ZZZZZZ	1.00	14:53																									
ZZZZZZ	1.00	14:54																									
ZZZZZZ	1.00	14:55																									
ZZZZZZ	1.00	14:57																									
ZZZZZZ	1.00	14:58																									
GW03-017C-P9	1.00	14:59																X									
GW03-014A-P2	1.00	15:00																X									
GW03-014A-P3	1.00	15:02																X									
LCS	1.00	15:03																X									
CCV2	1.00	15:04																X									
CCB2	1.00	15:05																X									
GW03-012A-P3	1.00	15:06																X									
GW03-010A-P3	1.00	15:08																X									
ZZZZZZ	1.00	15:09																									
EXTRA FIELD BLANK	1.00	15:10																X									
ZZZZZZ	1.00	15:12																									
ZZZZZZ	1.00	15:13																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/19/03 End Date: 12/19/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	15:14																									
ZZZZZZ	1.00	15:15																									
ZZZZZZ	1.00	15:17																									
ZZZZZZ	1.00	15:18																									
CCV3 ✓	1.00	15:19																X									
CCB3	1.00	15:21																X									
ZZZZZZ	1.00	15:22																									
ZZZZZZ	1.00	15:23																									
ZZZZZZ	1.00	15:24																									
ZZZZZZ	1.00	15:25																									
ZZZZZZ	1.00	15:26																									
ZZZZZZ	1.00	15:28																									
ZZZZZZ	1.00	15:30																									
ZZZZZZ	1.00	15:31																									
ZZZZZZ	1.00	15:32																									
LCS	1.00	15:33																X									
CCV4 ✓	1.00	15:34																X									
CCB4	1.00	15:35																X									
ZZZZZZ	1.00	15:37																									
ZZZZZZ	1.00	15:39																									
ZZZZZZ	1.00	15:40																									
Method Blank	1.00	15:42																X									
Method Blank	1.00	15:43																X									
ZZZZZZ	1.00	15:45																									
CCV5 ✓	1.00	15:46																X									
CCB5	1.00	15:47																X									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/19/03 End Date: 12/19/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV11	1.00	11:53																X									
ICB11	1.00	11:54																X									
CRDL1 Hg=60%	1.00	11:55																X									
ZZZZZZ	1.00	11:57																									
ZZZZZZ	1.00	11:58																									
ZZZZZZ	1.00	11:59																									
ZZZZZZ	1.00	12:00																									
ZZZZZZ	1.00	12:02																									
GW03-016C-P8	1.00	12:03																X									
ZZZZZZ	1.00	12:04																									
ZZZZZZ	1.00	12:05																									
ZZZZZZ	1.00	12:06																									
ZZZZZZ	1.00	12:08																									
CCV1	1.00	12:09																X									
CCB1	1.00	12:10																X									
ZZZZZZ	1.00	12:11																									
ZZZZZZ	1.00	12:13																									
ZZZZZZ	1.00	12:14																									
ZZZZZZ	1.00	12:15																									
ZZZZZZ	1.00	12:16																									
ZZZZZZ	1.00	12:18																									
ZZZZZZ	1.00	12:19																									
ZZZZZZ	1.00	12:20																									
ZZZZZZ	1.00	12:21																									
LCS	1.00	12:22																X									
CCV2	1.00	12:24																X									
CCB2	1.00	12:25																X									
ZZZZZZ	1.00	12:26																									
ZZZZZZ	1.00	12:28																									
ZZZZZZ	1.00	12:29																									
ZZZZZZ	1.00	12:30																									
ZZZZZZ	1.00	12:32																									
ZZZZZZ	1.00	12:33																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/19/03 End Date: 12/19/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	12:34																									
ZZZZZZ	1.00	12:35																									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:38																									
CCV3	1.00	12:39																X									
CCB3	1.00	12:40																X									
ZZZZZZ	1.00	12:42																									
ZZZZZZ	1.00	12:43																									
ZZZZZZ	1.00	12:44																									
ZZZZZZ	1.00	12:46																									
ZZZZZZ	1.00	12:47																									
ZZZZZZ	1.00	12:48																									
ZZZZZZ	1.00	12:49																									
ZZZZZZ	1.00	12:51																									
ZZZZZZ	1.00	12:52																									
ZZZZZZ	1.00	12:53																									
CCV4	1.00	12:55																X									
CCB4	1.00	12:56																X									
ZZZZZZ	1.00	12:57																									
ZZZZZZ	1.00	12:58																									
ZZZZZZ	1.00	12:59																									
ZZZZZZ	1.00	13:00																									
ZZZZZZ	1.00	13:02																									
Method Blank TECRDC	1.00	13:03																X									
ZZZZZZ (-.2534 µg/L)	1.00	13:04																									
ZZZZZZ	1.00	13:06																									
CCV5	1.00	13:07																X									
CCB5	1.00	13:08																X									

1/27/04

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/17/03 End Date: 12/17/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV12	1.00	13:30																X									
ICB12	1.00	13:31																X									
CRDL1	1.00	13:32																X									
ZZZZZZ	1.00	13:33																									
ZZZZZZ	1.00	13:34																									
ZZZZZZ	1.00	13:35																									
ZZZZZZ	1.00	13:36																									
ZZZZZZ	1.00	13:37																									
ZZZZZZ	1.00	13:39																									
ZZZZZZ	1.00	13:40																									
ZZZZZZ	1.00	13:41																									
ZZZZZZ	1.00	13:42																									
ZZZZZZ	1.00	13:43																									
CCV1	1.00	13:44																X									
CCB1	1.00	13:46																X									
ZZZZZZ	1.00	13:47																									
ZZZZZZ	1.00	13:48																									
ZZZZZZ	1.00	13:50																									
ZZZZZZ	1.00	13:51																									
ZZZZZZ	1.00	13:52																									
ZZZZZZ	1.00	13:54																									
ZZZZZZ	1.00	13:55																									
ZZZZZZ	1.00	13:56																									
ZZZZZZ	1.00	13:57																									
ZZZZZZ	1.00	13:59																									
CCV2	1.00	14:00																									
CCB2	1.00	14:02																X									
ZZZZZZ	1.00	14:03																									
ZZZZZZ	1.00	14:05																									
ZZZZZZ	1.00	14:06																									
ZZZZZZ	1.00	14:07																									
ZZZZZZ	1.00	14:08																									
ZZZZZZ	1.00	14:10																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/17/03 End Date: 12/17/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	14:12																									
ZZZZZZ	1.00	14:13																									
ZZZZZZ	1.00	14:14																									
ZZZZZZ	1.00	14:15																									
CCV3	1.00	14:16																X									
CCB3	1.00	14:18																X									
ZZZZZZ	1.00	14:19																									
ZZZZZZ	1.00	14:22																									
ZZZZZZ	1.00	14:23																									
ZZZZZZ	1.00	14:24																									
ZZZZZZ	1.00	14:26																									
ZZZZZZ	1.00	14:27																									
ZZZZZZ	1.00	14:28																									
GW03-012B-P5	1.00	14:29																X									
GW03-009A-P3	1.00	14:31																X									
LCS	1.00	14:32																X									
CCV4	1.00	14:33																X									
CCB4	1.00	14:35																X									
GW03-012B-P6	1.00	14:36																X									
GW03-016A-P2	1.00	14:37																X									
GW03-016A-P2MD	1.00	14:39																X									
GW03-016A-P2MS	1.00	14:40																X									
GW03-012A-P2	1.00	14:41																									
ZZZZZZ	1.00	14:42																									
ZZZZZZ	1.00	14:44																									
ZZZZZZ	1.00	14:45																									
ZZZZZZ	1.00	14:46																									
ZZZZZZ	1.00	14:48																									
CCV5	1.00	14:49																X									
CCB5	1.00	14:50																X									
ZZZZZZ	1.00	14:51																									
ZZZZZZ	1.00	14:52																									
ZZZZZZ	1.00	14:54																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/17/03 End Date: 12/17/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	14:55																									
ZZZZZZ	1.00	14:56																									
ZZZZZZ	1.00	14:57																									
LCS	1.00	14:59																X									
ZZZZZZ	1.00	15:01																									
Method Blank	1.00	15:02																X									
Method Blank	1.00	15:03																X									
CCV6	1.00	15:05																X									
CCB6	1.00	15:06																X									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/18/03 End Date: 12/18/03

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV13	1.00	12:15																X									
ICB13	1.00	12:16																X									
CRDL1 Hg = 60%	1.00	12:17																X									
ZZZZZZ	1.00	12:18																									
ZZZZZZ	1.00	12:20																									
ZZZZZZ	1.00	12:21																									
ZZZZZZ	1.00	12:23																									
ZZZZZZ	1.00	12:24																									
ZZZZZZ	1.00	12:25																									
ZZZZZZ	1.00	12:26																									
ZZZZZZ	1.00	12:28																									
ZZZZZZ	1.00	12:29																									
ZZZZZZ	1.00	12:30																									
CCV1	1.00	12:31																X									
CCB1	1.00	12:33																X									
ZZZZZZ	1.00	12:34																									
ZZZZZZ	1.00	12:36																									
ZZZZZZ	1.00	12:37																									
ZZZZZZ	1.00	12:38																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:41																									
ZZZZZZ	1.00	12:42																									
ZZZZZZ	1.00	12:44																									
ZZZZZZ	1.00	12:45																									
ZZZZZZ	1.00	12:46																									
CCV2	1.00	12:47																X									
CCB2	1.00	12:48																X									
ZZZZZZ	1.00	12:49																									
ZZZZZZ	1.00	12:51																									
ZZZZZZ	1.00	12:52																									
GW03-017A-P1	1.00	12:53																X									
GW03-016B-P5	1.00	12:54																X									
ZZZZZZ	1.00	12:56																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 121601

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 12/18/03 End Date: 12/18/03

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
LCS	1.00	12:57																X									
ZZZZZZ	1.00	12:58																									
Method Blank	1.00	13:00																X									
CCV3	1.00	13:01																X									
CCB3	1.00	13:02																X									

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DATA USABILITY SUMMARY REPORT GROUNDWATER SAMPLING EVENT FEBRUARY-MARCH 2004

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. It should be noted that the data validation was limited primarily to a review of the chain-of-custody records, data package case narratives, and laboratory reporting forms. Raw analytical data and sample concentration calculations were only reviewed when deemed necessary (e.g., when the reported result was suspect or inconsistent with historical data).

2.0 ANALYTICAL METHODOLOGIES

The data being evaluated are from the February 24 through March 11, 2004 sampling of 84 groundwater samples, six matrix spike/matrix spike duplicate (MS/MSD) pairs, two equipment blanks, and 47 trip blanks. The analytical laboratory that performed the analyses is Severn Trent Laboratories, located in Amherst, New York (STL-Buffalo). The samples were analyzed for the following parameters:

- Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260B;
- TCL semivolatile organic compounds (SVOCs) by EPA Method 8270C;
- TCL pesticides by EPA Method 8081A;
- TCL polychlorinated biphenyls (PCBs) by EPA Method 8082;
- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) by EPA Method 8290;
- arsenic, cadmium, calcium, lead, magnesium, potassium, and sodium by EPA Method 6010B;
- mercury by Method EPA 7470A;
- total alkalinity and bicarbonate alkalinity by EPA Method 310.1;
- chloride and sulfate by EPA Method 300.0;
- total hardness by EPA Method 130.2;
- monomethyl mercury by EPA Method 1630, modified;

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- total dissolved solids (TDS) by EPA Method 160.1;
- total organic carbon (TOC) by EPA Method 415.1;
- total suspended solids (TSS) by EPA Method 160.2;
- heterotrophic plate count by Standard Method 9215B;
- total coliform by Standard Methods 9222B; and
- E. coli by Standard Method 9221.

Not all samples were analyzed for all parameters.

The methods referenced are from: *Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846*, Final Update III, USEPA, June 1997; *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, USEPA, Revised March 1983; *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, 1998; and Modified *Method 1630, Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS*, USEPA, Draft, August 1998.

STL-Buffalo subcontracted the following parameters: monomethyl mercury analyses to Brooks Rand, LLC, located in Seattle, WA; 2,3,7,8-TCDD analyses to STL-Knoxville, located in Knoxville, TN; and heterotrophic plate count, total coliform, and *E. coli* analyses to MTL-ACTS, Bureau Veritas Consumer Products Services, Inc., located in Buffalo, NY (ACTS).

The data were reviewed for completeness with regard to deliverables, holding times, and compliance with the referenced methods. The data were qualified following the guidelines presented in: USEPA Region II *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6, Revision 12, March 2001; USEPA Region II *Evaluation of Metals Data for the CLP Program*, SOP HW-2, Revision 11, January 1992; and USEPA Region II *SOP for SW-846 Method 8290, Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994.

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Qualifications applied to the data include "J/UJ" (estimated concentration/estimated quantitation limit), "U" (not detected), and "R" (rejected). A summary of sample qualification is presented on Table 1. The validated analytical results are presented on Tables 2 and 3. Definitions of USEPA Region II data qualifiers are presented in Attachment A. Definitions of sample concentration units are presented in Attachment B. Documentation supporting qualification of data is presented in Attachment C. Only data qualified due to nonconformance with method and/or project requirements are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were in accordance with NYSDEC Analytical Services Protocol (ASP), June 2000, Category B requirements.

4.0 HOLDING TIMES

The SVOC fraction of sample GW03-007A-P3 was initially extracted and analyzed within contractual and USEPA Region II technical holding times. Because of extremely low acid/phenolic surrogate recoveries (i.e., <10%) in the initial analysis, the sample was re-extracted seven days past the USEPA Region II technical holding time of seven days from collection, and reanalyzed with acceptable acid/phenolic surrogate recoveries. The results for the acid/phenolic SVOCs in sample GW03-007A-P3 were qualified "UJ" for the holding time exceedance. Since the recoveries of all base/neutral surrogates were within quality control limits in the initial analysis of the sample, the results for these SVOCs did not require qualification.

The pesticide fraction of samples GW03-009A-P2, GW03-015B-P5, and GW03-015C-P7 was initially extracted and analyzed within contractual and USEPA Region II technical holding times. Because the laboratory suspected that the presence of endrin, dieldrin, and/or 4,4'-DDT in these samples was the result of cross-contamination during sample extraction, the samples were re-extracted 11 days past the USEPA Region II technical holding time of seven days from collection. The pesticides listed were not detected in the re-extracted sample analyses. The results for the endrin, dieldrin, and/or 4,4'-DDT in samples GW03-009A-P2, GW03-015B-P5, and GW03-015C-P7 reported on Table 2 were qualified "UJ" for the holding time exceedance.

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The initial chloride analysis of sample GW03-007A-P3 was performed within the required holding time. However, the result was inconsistent with historical data, and the laboratory reanalyzed the sample three days past holding time. The result from the reanalysis is more consistent with the historical data. Therefore, the result from the reanalysis is reported on Table 2 and qualified "J" for the holding time exceedance.

5.0 NONCONFORMANCES

The following quality control (QC) non-conformances were noted during the data review:

- Miscellaneous

  The heterotrophic plate count results for samples GW03-001A-P1, GW03-005A-P1, GW03-007A-P2, GW03-008A-P2, GW03-010A-P2, GW03-011A-P2, GW03-011C-P8, GW03-014A-P3, GW03-014B-P6, GW03-015A-P2, GW03-015B-P4, GW03-015B-P5, GW03-015C-P7, GW03-017A-P2, and GW03-017B-P6 were outside the countable range specified in the method. Because of the short holding times for these analyses, reanalysis of the samples was not possible. The detected results for heterotrophic plate count in these samples were qualified "J."

- Initial and Continuing Calibrations

  The percent relative standard deviation (%RSD) between the relative response factors (RRF) for the VOC 2-butanone exceeded the USEPA Region II QC limit of 30% in the initial calibration (ICAL) associated with sample GW03-010A-P3. The detected result for 2-butanone in this sample was qualified "J."

  The RRFs for the VOCs acetone, 2-butanone, and/or 1,2-dibromo-3-chloropropane were below the USEPA Region II QC limit of 0.05 in one or more continuing calibration (CCAL) standards. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "R" and the detected results qualified "J."

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The percent difference (%D) between the ICAL average RRF and the RRF in one or more of the CCAL standards exceeded the USEPA Region II QC limit of 25% for the VOCs acetone, bromomethane, 2-butanone, cis-1,2-dichloroethene, cyclohexane, dichlorodifluoromethane, 2-hexanone, 1,2,4-trichlorobenzene, methyl tert-butyl ether (MTBE), 4-methyl-2-pentanone, methyl acetate. The non-detect results for these compounds in the associated samples listed on Table 1 were qualified "UJ," and the detected results qualified "J."

The %D between the ICAL average RRF and the RRF in one or more of the CCAL standards exceeded the USEPA Region II QC limit of 25% for the SVOC 2,4-dinitrophenol. The non-detect results for this compound in the associated samples listed on Table 1 were qualified "UJ."

- Blank Contamination

The VOC 1,1,2-trichloro-1,2,2-trifluoroethane was detected in the method blank associated with sample GW03-015B-P4. The result for 1,1,2-trichloro-1,2,2-trifluoroethane in this sample was raised to the reporting limit and qualified "U" because the concentration was less than five times the concentration detected in the associated method blank.

The SVOC bis(2-ethylhexyl)phthalate was detected in the method blank associated with sample GW03-007A-P3. The result for bis(2-ethylhexyl)phthalate in this sample was qualified "U" at the reported concentration because the concentration was less than five times the concentration detected in the associated method blank.

A negative concentration greater than the negative reporting limit was detected in some of the mercury method blanks. The non-detect results for mercury in the associated samples listed on Table 1 were qualified "UJ."

- Internal Standard Recovery

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The TCDD analysis of sample GW03-005A-P2 exhibited a recovery below the lower QC limit for internal standard (IS) 13C12-2,3,7,8-TCDD. The non-detect result for 2,3,7,8-TCDD in this sample was qualified "UJ" for the IS outlier.

- Surrogate Recovery

The PCBs analyses of samples GW03-005A-P2 and GW03-010A-P3 exhibited recoveries below the lower QC limit on both analytical columns for the surrogate decachlorobiphenyl. The results for all PCBs (all were non-detect) were qualified "UJ." The samples were not re-extracted and reanalyzed.

- Matrix Spike Recovery

The recoveries of sulfate and chloride were less than the lower quality control limits in the MS analyses associated with samples GW03-005A-P1, GW03-005A-P2, GW03-009A-P3, GW03-015A-P2, GW03-015A-P3, GW03-015B-P6, and GW03016B-P6. The detected results for sulfate and chloride in these samples were qualified "J."

The recovery of monomethyl mercury was less than the lower quality control limit in the MS analysis associated with the samples listed on Table 1. The detected results for monomethyl mercury in these samples were qualified "J," and the non-detect results qualified "UJ."

- Analyte Identification

The %D between the concentrations of alpha-BHC, beta-BHC, delta-BHC and/or gamma-BHC detected on the primary chromatographic column and those detected on the confirmation column exceeded 25% but was less than 70% in the samples listed on Table 1. Detected results greater than the reporting limit (RL) were qualified "J." If the %D was greater than 50% and the sample concentration was less than the RL, the results were raised to the RL and qualified "U."

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The %D between the concentration of 4,4'-DDT detected on the primary chromatographic column and that detected on the confirmation column exceeded 70% in sample GW03-015C-P7. The detected result for 4,4'-DDT in this sample was qualified "NJ."

The pesticides endrin and/or dieldrin were detected in the initial analyses of samples GW03-009A-P2, GW03-015B-P5, and GW03-015C-P7. Since these compounds have not been detected at any groundwater sampling location in the prior two rounds of sampling, and because a sample (from another client) with elevated concentrations of these pesticides was extracted the day before the samples listed above were extracted, the laboratory suspected that the presence of these compounds in samples GW03-009A-P2, GW03-015B-P5, and GW03-015C-P7 may have been due to cross-contamination during sample extraction. Because of this, the samples were re-extracted outside of holding time and reanalyzed. Endrin and dieldrin were not detected in any of the re-extracted samples. As previously discussed in Section 4.0, the non-detect results for these compounds are reported on Table 2 and were qualified "UJ" for the holding time exceedance.

- Serial Dilutions

The %D between the concentration of sodium in the undiluted analyses of samples GW03-010A-P1, GW03-011A-P3, and GW03-013A-P2 and the concentrations in the serial dilution analyses of the samples exceeded 10%. The results for sodium in the associated samples listed on Table 1 were qualified "J."

The %D between the concentrations of calcium, magnesium, potassium, and sodium in the undiluted analysis of sample GW03-009A-P3 and the concentrations in the serial dilution analysis of the sample exceeded 10%. The results for calcium, magnesium, potassium, and sodium in the associated samples listed on Table 1 were qualified "J."

- Contract Required Detection Limit (CRDL) Standards

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The recovery of lead in the CRDL standard associated with samples GW03-009A-P2, GW03-015B-P5, GW03-015C-P7, and GW03-016A-P3 was below the lower USEPA Region II control limit of 80%. The non-detect results for lead in these samples listed qualified "UJ."

6.0 SAMPLE RESULTS AND REPORTING

All quantitation limits were reported in accordance with method requirements and were adjusted for sample size and dilution factors.

The VOC fraction of samples GW03-005A-P2, GW03-009A-P2, GW03-009A-P3, GW03-009B-P4, GW03-012A-P3, GW03-014A-P3, GW03-015B-P5, GW03-015C-P7, GW03-016A-P3, GW03-017A-P1, GW03-017A-P2, GW03-017B-P4, and GW03-017C-P8 was diluted prior to analysis due to elevated concentrations of target compounds. The VOC fraction of sample GW03-015A-P2 was diluted prior to analysis because the samples foamed excessively during the sample introduction (i.e., purging) process. The dilution was necessary to avoid damage to the instrument. The reporting limits for the VOCs in the samples listed above are the lowest achievable at the diluted levels.

The pesticide fraction of sample GW03-001A-P2 was diluted prior to analysis due to matrix interferences. The reporting limits for the pesticides in this sample are the lowest achievable at the diluted level.

The 2,3,7,8-TCDD fraction of sample GW03-012B-P5 was diluted prior to analysis to minimize retention time shift and peak tailing. The reporting limit for 2,3,7,8-TCDD in this sample is the lowest achievable at the diluted level.

Sample results qualified "D" were reported from secondary dilution analyses. Several organic sample results were qualified "J" by the laboratory indicating estimated concentrations below the quantitation limits. Monomethyl mercury results for several samples were qualified "B" by the laboratory indicating estimated concentrations below the quantitation limit.

7.0 SUMMARY

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All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified "J/UJ"(estimated/estimated quantitation limit) are considered conditionally usable. Those results qualified "U" are considered not detected. Those results qualified "R" (rejected) are unusable. All other sample results are usable as reported.

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TABLE 1

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-001A-P1, GW03-002A-P1, GW03-013A-P2, GW03-013B-P4, GW03-013B-P5, GW03-013C-P7, GW03-014B-P6, GW03-014C-P7, GW03-017A-P1, GW03-017B-P4, GW03-017C-P7, GW03-017C-P8, TBC1-022404, TBA2-022604, and TBC2-022604	VOC	CCAL RRF <0.05 for acetone and 1,2-dibromo-3-chloropropane.	Qualify non-detect results "R."
GW03-001A-P2, GW03-004A-P1, GW03-004A-P2, GW03-005A-P2, GW03-007A-P1, GW03-007A-P2, GW03-007A-P3, GW03-007B-P4, GW03-007B-P5, GW03-009A-P2, GW03-009A-P3, GW03-010A-P2, GW03-010B-P4, GW03-010B-P5, GW03-010B-P6, GW03-013A-P1, GW03-013A-P3, GW03-013B-P6, GW03-014A-P1, GW03-014B-P4, GW03-015A-P3, GW03-015B-P5, GW03-015C-P7, GW03-016A-P3, GW03-017A-P2, GW03-017B-P6, GW03-017C-P9, TBA1-022604, TBC1-022604, TBD1-022604, TBA1-022704, TBB1-022704, TBC1-022704, TBD1-022704, TBA1-030104, TBC1-030104, TBD1-030104, TBA1-030803, TBB1-030804, TBC1-030804, TBD1-030804, TBD1-030904, TBC1-031104, and EB1-Bailer Blank	VOC	CCAL RRF <0.05 for acetone and 2-butanone.	Qualify non-detect results "R" and detected results "J."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-005A-P1, GW03-009B-P5, GW03-010A-P1, GW03-011A-P1, GW03-011A-P2, GW03-011A-P3, GW03-011C-P7, GW03-012A-P3, GW03-014B-P5, GW03-015A-P2, GW03-015B-P4, GW03-015B-P6, GW03-016A-P1, GW03-016B-P4, GW03-016B-P6, GW03-016C-P7, GW03-016C-P8, GW03-017B-P5, TBA2-022504, TBC2-022404, TBA1-030404, TBB1-030404, TBB2-030404, TBC1-030404, TBC2-030404, TBD1-030404, TBA1-030904, TBD2-030904, TBA1-031004, and RB-Tubing,	VOC	CCAL RRF <0.05 for acetone.	Qualify non-detect results “R” and detected results “J.”
GW03-003A-P1, GW03-008B-P4, GW03-010C-P7, GW03-014A-P3, TBA2-030104, TBB1-030104, TBC2-030104, and TBD2-030104	VOC	CCAL RRF <0.05 for 2-butanone.	Qualify non-detect results “R.”
GW03-010A-P3	VOC	ICAL RRF %RSD >30% for 2-butanone.	Qualify detected result “J.”
GW03-004A-P1, GW03-004A-P2, GW03-007A-P2, GW03-010B-P4, GW03-010B-P5, GW03-010B-P6, GW03-017A-P2, TBA1-030104, TBC1-030104, and TBD1-030104	VOC	CCAL >25 %D for bromomethane, methyl acetate, dichlorodifluoromethane, 2-hexanone, 4-methyl-2-pentanone, and MTBE.	Qualify non-detect results “UJ” and detected results “J.”
GW03-003A-P1, GW03-008B-P4, GW03-010C-P7, GW03-014A-P3, TBA2-030104, TBB1-030104, TBC2-030104, and TBD2-030104	VOC	CCAL >25 %D for acetone, methyl acetate, cis-1,2-dichloroethene, 2-hexanone, 4-methyl-2-pentanone, and MTBE.	Qualify non-detect results “UJ.”

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-001A-P1, GW03-002A-P1, GW03-006A-P1, GW03-006A-P5, GW03-006B-P2, GW03-006B-P4, GW03-008A-P1, GW03-008A-P2, GW03-008A-P3, GW03-008B-P5, GW03-009A-P1, GW03-009A-P2, GW03-009B-P6, GW03-010A-P1, GW03-010A-P3, GW03-011A-P1, GW03-011A-P2, GW03-011A-P3, GW03-011B-P4, GW03-011C-P7, GW03-012A-P2, GW03-012A-P3, GW03-012B-P6, GW03-013A-P2, GW03-013B-P4, GW03-013B-P5, GW03-013C-P7, GW03-014B-P5, GW03-014B-P6, GW03-014C-P7, GW03-015A-P1, GW03-015B-P4, GW03-015B-P5, GW03-015B-P6, GW03-015C-P7, GW03-016A-P1, GW03-016B-P4, GW03-016B-P5, GW03-016B-P6, GW03-016C-P7, GW03-016C-P8, GW03-017B-P5, GW03-017C-P8, TBC2-022404, TBA2-022504, TBA2-022604, TBC2-022604, TBA1-030204, TBA2-030204, TBA1-030304, TBA2-030304, TBB1-030304, TBC1-030304, TBD1-030304, TBA1-030404, TBB1-030404, TBB2-030404, TBC1-030404, TBC2-030404, TBD1-030404, TBA1-030504, TBB1-030504, TBD1-030504, TBA1-030904, TBD2-030904, and RB-Tubing	VOC	CCAL >25 %D for bromomethane.	Qualify non-detect results “UJ.”

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-017A-P1, GW03-017B-P4, GW03-017C-P7, and TBC1-022404	VOC	CCAL >25 %D for bromomethane and 1,2,4-trichlorobenzene.	Qualify non-detect results "UJ."
GW03-007B-P4, GW03-007B-P5, GW03-013A-P1, GW03-013A-P3, GW03-017B-P6, GW03-017C-P9, TBA1-022604, TBC1-022604, and TBD1-022604	VOC	CCAL >25 %D for cyclohexane, 2-hexanone, and 4-methyl-2-pentanone.	Qualify non-detect results "UJ."
GW03-009B-P4	VOC	CCAL >25 %D for bromomethane, 2-butanone, and cis-1,2-dichloroethene.	Qualify non-detect results "UJ."
GW03-009B-P5	VOC	CCAL >25 %D for 2-butanone, methyl acetate, cyclohexane, and MTBE.	Qualify non-detect results "UJ" and detected results "J."
GW03-016A-P2	VOC	CCAL >25 %D for bromomethane and cis-1,2-dichloroethene.	Qualify non-detect results "UJ" and detected results "J."
GW03-009A-P3, GW03-015A-P3, GW03-016A-P3, TBA1-030804, TBB1-030804, TBC1-030804, TBD1-030804, and TBD1-030904	VOC	CCAL >25 %D for dichlorodifluoromethane.	Qualify non-detect results "UJ."
GW03-015B-P4	VOC	1,1,2-Trichloro-1,2,2-trifluoroethane concentration < five times amount detected in method blank.	Raise result to RL and qualify "U."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-001A-P1, GW03-002A-P1, GW03-007A-P1, GW03-007A-P3, GW03-007B-P4, GW03-007B-P5, , GW03-010A-P1, GW03-010A-P2, , GW03-013A-P1, GW03-013A-P2, GW03-013A-P3, GW03-013B-P4, GW03-013B-P5, , GW03-014A-P1, GW03-014B-P4, GW03-014B-P5, GW03-014B-P6, , GW03-017B-P5, GW03-017B-P6, GW03-017C-P8, GW03-017C-P9, and EB1-Bailer Blank	SVOC	CCAL >25 %D for 2,4-dinitrophenol.	Qualify non-detect results "UJ."
GW03-007A-P3	SVOC	Technical holding time exceedance for sample extraction.	Qualify non-detect results for all acid/phenolic compounds "UJ."
GW03-007A-P3	SVOC	Bis(2-ethylhexyl)phthalate concentration < five times amount detected in method blank.	Qualify result "U" at the reported concentration.
GW03-009A-P2 and GW03-015B-P5	Pesticides	Technical holding time exceedance for sample extraction.	Qualify non-detect results for endrin "UJ."
GW03-015C-P7	Pesticides	Technical holding time exceedance for sample extraction.	Qualify non-detect results for endrin and dieldrin "UJ."
GW03-016B-P4, GW03-016C-P7, GW03-016C-P8, GW03-017C-P8	Pesticides	%D between column concentrations > 25% but < 70% for beta-BHC.	Qualify detected results "J."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-014A-P2	Pesticide	%D between column concentrations > 25% but < 70% for delta-BHC.	Qualify detected results "J."
GW03-015B-P6	Pesticide	%D between column concentrations > 25% but < 70% for gamma-BHC.	Qualify detected results "J."
GW03-017B-P4	Pesticide	%D between column concentrations > 50% for alpha-BHC, and sample concentration < RL.	Raise result to RL and qualify "U."
GW03-015B-P5	Pesticide	%D between column concentrations > 50% for gamma-BHC, and sample concentration < RL.	Raise result to RL and qualify "U."
GW03-015C-P7	Pesticide	%D between column concentrations > 70% for 4,4'-DDT.	Qualify detected results "NJ."
GW03-005A-P2 and GW03-010A-P3	PCB	Surrogate recoveries below quality control limits.	Qualify non-detect results "UJ."
GW03-005A-P2	TCDD	Internal standard recovery below the lower QC limit.	Qualify non-detect result "UJ."
GW03-009A-P2, GW03-015B-P5, GW03-015C-P7, and GW03-016A-P3	Metals	Lead recovery < 80% in the CRDL standard.	Qualify non-detect results "UJ."
GW03-003A-P1, GW03-003A-P2, GW03-006A-P5, GW03-006B-P2, GW03-006B-P4, GW03-008B-P4, GW03-009B-P4, GW03-009B-P6, GW03-010A-P1, GW03-010C-P7, GW03-012B-P6, GW03-012C-P7, GW03-013A-P2, GW03-014A-P2, GW03-014A-P3, GW03-014B-P5, GW03-014B-P6,	Metals	Concentration of mercury in the method blank greater than the negative reporting limit.	Qualify non-detect result "UJ."

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TABLE 1 (CONT.)

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-010A-P1, GW03-011A-P3, GW03-012A-P3, GW03-013A-P2, GW03-014B-P5, GW03-014B-P6, GW03-015B-P4, GW03-015B-P5, GW03-016A-P3, and GW03-017A-P1	Metals	Serial dilution >10%D for sodium.	Qualify detected results >10X IDL "J."
GW03-009A-P3 and GW03-015A-P3	Metals	Serial dilution >10%D for calcium, magnesium, potassium, and sodium.	Qualify detected results >10X IDL "J."
GW03-007A-P3	Chloride	Technical holding time exceedance.	Qualify detected result "J."
GW03-001A-P1, GW03-001A-P2, GW03-002A-P1, GW03-003A-P1, GW03-004A-P1, GW03-004A-P2, GW03-007A-P1, GW03-007A-P2, GW03-007A-P3, GW03-007B-P4, GW03-007B-P5, and GW03-008B-P4	Monomethyl mercury	Matrix spike recovery below quality control limit.	Qualify non-detect results "UJ" and detected results "J."
GW03-005A-P1, GW03-005A-P2, GW03-009A-P3, GW03-015A-P2, GW03-015A-P3, GW03-015B-P6, and GW03016B-P6	Sulfate and chloride	Matrix spike recoveries below quality control limits.	Qualify detected results "J."
GW03-001A-P1, GW03-005A-P1, GW03-007A-P2, GW03-008A-P2, GW03-010A-P2, GW03-011A-P2, GW03-011C-P8, GW03-014A-P3, GW03-014B-P6, GW03-015A-P2, GW03-015B-P4, GW03-015B-P5, GW03-015C-P7, GW03-017A-P2, and GW03-017B-P6	Heterotrophic plate count	Results outside countable range specified in the method.	Qualify detected results "J."

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	02/26/04	02/27/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,1-Dichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,1-Dichloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dibromo-3-chloropropane	UG/L	R	NA	1.0 U	R	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichloroethene (cis)	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichloroethene (trans)	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichloropropane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,3-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,3-Dichloropropene (cis)	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,3-Dichloropropene (trans)	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
1,4-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
2-Hexanone	UG/L	5.0 U	NA	5.0 U	5.0 U	NA
4-Methyl-2-Pentanone	UG/L	5.0 U	NA	5.0 U	5.0 U	NA
Acetone	UG/L	R	NA	3.0 J	R	NA
Benzene	UG/L	1.0 U	NA	3.0	1.0 U	NA
Bromodichloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	02/26/04	02/27/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Bromomethane	UG/L	1.0 UJ	NA	1.0 U	1.0 UJ	NA
Carbon Disulfide	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Carbon Tetrachloride	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Chlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Chloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Chloroform	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Chloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Cyclohexane	UG/L	0.31 J	NA	1.5	1.0 U	NA
Dibromochloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Dichlorodifluoromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Ethylbenzene	UG/L	1.0 U	NA	0.44 J	1.0 U	NA
Isopropylbenzene (Cumene)	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Methyl acetate	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	NA	R	5.0 U	NA
Methyl tert-butyl ether	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Methylcyclohexane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Methylene Chloride	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Styrene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Tetrachloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Toluene	UG/L	1.0 U	NA	0.47 J	1.0 U	NA
Total Xylenes	UG/L	3.0 U	NA	2.8 J	3.0 U	NA
Trichloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	02/26/04	02/27/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Vinyl Chloride	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	NA	10 U	10 U	NA
2,4,5-Trichlorophenol	UG/L	10 U	NA	10 U	10 U	NA
2,4,6-Trichlorophenol	UG/L	10 U	NA	10 U	10 U	NA
2,4-Dichlorophenol	UG/L	10 U	NA	10 U	10 U	NA
2,4-Dimethylphenol	UG/L	10 U	NA	10 U	10 U	NA
2,4-Dinitrophenol	UG/L	52 UJ	NA	48 U	50 UJ	NA
2,4-Dinitrotoluene	UG/L	10 U	NA	10 U	10 U	NA
2,6-Dinitrotoluene	UG/L	10 U	NA	10 U	10 U	NA
2-Chloronaphthalene	UG/L	10 U	NA	10 U	10 U	NA
2-Chlorophenol	UG/L	10 U	NA	10 U	10 U	NA
2-Methylnaphthalene	UG/L	10 U	NA	10 U	10 U	NA
2-Methylphenol (o-cresol)	UG/L	10 U	NA	10 U	10 U	NA
2-Nitroaniline	UG/L	52 U	NA	48 U	50 U	NA
2-Nitrophenol	UG/L	10 U	NA	10 U	10 U	NA
3,3-Dichlorobenzidine	UG/L	21 U	NA	19 U	20 U	NA
3-Nitroaniline	UG/L	52 U	NA	48 U	50 U	NA
4,6-Dinitro-2-methylphenol	UG/L	52 U	NA	48 U	50 U	NA
4-Bromophenyl-phenylether	UG/L	10 U	NA	10 U	10 U	NA
4-Chloro-3-methylphenol	UG/L	10 U	NA	10 U	10 U	NA
4-Chloroaniline	UG/L	10 U	NA	10 U	10 U	NA

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	02/26/04	02/27/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	NA	10 U	10 U	NA
4-Methylphenol (p-cresol)	UG/L	10 U	NA	10 U	10 U	NA
4-Nitroaniline	UG/L	52 U	NA	48 U	50 U	NA
4-Nitrophenol	UG/L	52 U	NA	48 U	50 U	NA
Acenaphthene	UG/L	10 U	NA	10 U	10 U	NA
Acenaphthylene	UG/L	10 U	NA	10 U	10 U	NA
Acetophenone	UG/L	10 U	NA	10 U	10 U	NA
Anthracene	UG/L	10 U	NA	10 U	10 U	NA
Atrazine	UG/L	10 U	NA	10 U	10 U	NA
Benzaldehyde	UG/L	52 U	NA	48 U	50 U	NA
Benzo(a)anthracene	UG/L	10 U	NA	10 U	10 U	NA
Benzo(a)pyrene	UG/L	10 U	NA	10 U	10 U	NA
Benzo(b)fluoranthene	UG/L	10 U	NA	10 U	10 U	NA
Benzo(g,h,i)perylene	UG/L	10 U	NA	10 U	10 U	NA
Benzo(k)fluoranthene	UG/L	10 U	NA	10 U	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	10 U	NA	10 U	10 U	NA
bis(2-Chloroethyl)ether	UG/L	10 U	NA	10 U	10 U	NA
bis(2-Chloroisopropyl)ether	UG/L	10 U	NA	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	10 U	NA	10 U	10 U	NA
Butylbenzylphthalate	UG/L	10 U	NA	10 U	10 U	NA
Caprolactam	UG/L	10 U	NA	8 J	10 U	NA
Carbazole	UG/L	10 U	NA	10 U	10 U	NA
Chrysene	UG/L	10 U	NA	10 U	10 U	NA

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	02/26/04	02/27/04
Parameter	**Units**					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	NA	10 U	10 U	NA
Dibenzofuran	UG/L	10 U	NA	10 U	10 U	NA
Diethylphthalate	UG/L	10 U	NA	10 U	10 U	NA
Dimethylphthalate	UG/L	10 U	NA	10 U	10 U	NA
Di-n-butylphthalate	UG/L	10 U	NA	10 U	10 U	NA
Di-n-octylphthalate	UG/L	10 U	NA	10 U	10 U	NA
Fluoranthene	UG/L	10 U	NA	10 U	10 U	NA
Fluorene	UG/L	10 U	NA	10 U	10 U	NA
Hexachlorobenzene	UG/L	10 U	NA	10 U	10 U	NA
Hexachlorobutadiene	UG/L	10 U	NA	10 U	10 U	NA
Hexachlorocyclopentadiene	UG/L	24 U	NA	23 U	24 U	NA
Hexachloroethane	UG/L	10 U	NA	10 U	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	10 U	NA	10 U	10 U	NA
Isophorone	UG/L	10 U	NA	10 U	10 U	NA
Naphthalene	UG/L	10 U	NA	10 U	10 U	NA
Nitrobenzene	UG/L	10 U	NA	10 U	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	10 U	NA	10 U	10 U	NA
N-Nitrosodiphenylamine	UG/L	10 U	NA	10 U	10 U	NA
Pentachlorophenol	UG/L	52 U	NA	48 U	50 U	NA
Phenanthrene	UG/L	10 U	NA	10 U	10 U	NA
Phenol	UG/L	10 U	NA	10 U	10 U	NA
Pyrene	UG/L	10 U	NA	10 U	10 U	NA

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	02/26/04	02/27/04
Parameter	**Units**					
Pesticides						
4,4-DDD	UG/L	0.050 U	NA	0.095 U	0.050 U	NA
4,4-DDE	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
4,4-DDT	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Aldrin	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
alpha-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
alpha-Chlordane	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
beta-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
delta-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Dieldrin	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Endosulfan I	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Endosulfan II	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Endosulfan sulfate	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Endrin	UG/L	0.050 U	NA	0.051 U	0.050 U	NA
Endrin aldehyde	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Endrin ketone	UG/L	0.070 U	NA	0.14 U	0.070 U	NA
gamma-BHC (Lindane)	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
gamma-Chlordane	UG/L	0.050 U	NA	0.071 U	0.050 U	NA
Heptachlor	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Heptachlor epoxide	UG/L	0.050 U	NA	0.050 U	0.050 U	NA
Methoxychlor	UG/L	0.050 U	NA	0.065 U	0.050 U	NA
Toxaphene	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.52 U	NA	0.48 U	0.52 U	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	02/26/04	02/27/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.52 U	NA	0.48 U	0.52 U	NA
Aroclor 1232	UG/L	0.52 U	NA	0.48 U	0.52 U	NA
Aroclor 1242	UG/L	0.52 U	NA	0.48 U	0.52 U	NA
Aroclor 1248	UG/L	0.52 U	NA	0.48 U	0.52 U	NA
Aroclor 1254	UG/L	0.52 U	NA	0.48 U	0.52 U	NA
Aroclor 1260	UG/L	0.52 U	NA	0.48 U	0.52 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	0.93 U	NA	1.9 U	1.1 U	NA
Metals						
Arsenic	UG/L	10.0 U	NA	10.0 U	10.0 U	NA
Cadmium	UG/L	1.0 U	NA	1.0 U	1.0 U	NA
Calcium	UG/L	316,000	NA	1,260,000	148,000	NA
Lead	UG/L	6.0 U	NA	29.7	6.0 U	NA
Magnesium	UG/L	77,600	NA	387,000	59,400	NA
Mercury	UG/L	0.200 U	NA	0.200 U	0.200 U	NA
Potassium	UG/L	12,200	NA	51,100	5,570	NA
Sodium	UG/L	265,000	NA	2,770,000	55,300	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	350	NA	288	380	NA
Alkalinity, Total (as CaCO3)	MG/L	350	NA	288	380	NA
Chloride	MG/L	574	NA	6,050	54.5	NA
Hardness	MG/L	969	NA	6,900	557	NA
Monomethyl Mercury	NG/L	NA	0.113 BJ	0.566 J	NA	0.14 UJ

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	02/26/04	02/27/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	707	NA	1,380	264	NA
Total Dissolved Solids	MG/L	2,020	NA	13,400	845	NA
Total Organic Carbon (TOC)	MG/L	1.1	NA	1.7	1.5	NA
Total Suspended Solids	MG/L	4.0 U	NA	5.0	4.0 U	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	14 J	NA	830	410	NA
Total Coliform	C/100 ML	20 U	NA	20 U	20 U	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/02/04	03/01/04	03/01/04	03/10/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ	5.0 U
Acetone	UG/L	5.0 UJ	5.0 U	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/02/04	03/01/04	03/01/04	03/10/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	0.42 J	1.0 U	0.53 J	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	R	R	5.0 U
Methyl tert-butyl ether	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Methylcyclohexane	UG/L	1.0 U	0.68 J	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/02/04	03/01/04	03/01/04	03/10/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	48 U	50 U	50 U	50 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	50 U	48 U	50 U	50 U	50 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	20 U	20 U	20 U
3-Nitroaniline	UG/L	50 U	48 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	48 U	50 U	50 U	50 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/02/04	03/01/04	03/01/04	03/10/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	50 U	48 U	50 U	50 U	50 U
4-Nitrophenol	UG/L	50 U	48 U	50 U	50 U	50 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	50 U	48 U	50 U	50 U	50 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	9 J	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/02/04	03/01/04	03/01/04	03/10/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	24 U	24 U	24 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	50 U	48 U	50 U	50 U	50 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/02/04	03/01/04	03/01/04	03/10/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Endrin ketone	UG/L	0.072 U	0.070 U	NA	0.072 U	0.072 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	NA	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.49 U	0.49 U	0.48 U	0.48 U	0.50 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/02/04	03/01/04	03/01/04	03/10/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.49 U	0.49 U	0.48 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.49 U	0.49 U	0.48 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.49 U	0.49 U	0.48 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.49 U	0.49 U	0.48 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.49 U	0.49 U	0.48 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.49 U	0.49 U	0.48 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.1 U	2.0 U	NA	2.3 U	2.1 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	227,000	239,000	196,000	99,700	831,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	110,000	118,000	95,400	53,400	140,000
Mercury	UG/L	0.200 UJ	0.200 UJ	0.200 U	0.200 U	0.200 U
Potassium	UG/L	4,220	11,000	14,900	17,900	26,600
Sodium	UG/L	157,000	211,000	158,000	260,000	724,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	311	329	207	349	309
Alkalinity, Total (as CaCO3)	MG/L	311	329	207	349	309
Chloride	MG/L	668	902	675	360	2,250 J
Hardness	MG/L	1,010	1,200	880	436	2,590
Monomethyl Mercury	NG/L	0.14 UJ	0.108 B	0.944 J	0.864 J	0.14 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-003A-P1	GW03-003A-P2	GW03-004A-P1	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/02/04	03/01/04	03/01/04	03/10/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	157	274	290	157	2,730 J
Total Dissolved Solids	MG/L	1,650	1,990	1,440	1,190	4,530
Total Organic Carbon (TOC)	MG/L	1.2	1.3	2.3	2.3	1.0 U
Total Suspended Solids	MG/L	4.0 U	4.0 U	16.0	5.0	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	170	200	3000	1800	3 J
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	20 U
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	03/02/04	03/03/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	UG/L	150	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	03/02/04	03/03/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	5.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	83	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	12	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.4 J	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	5.0 U	0.52 J	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	50	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	82	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	56	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	03/02/04	03/03/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	49 U	48 U	50 U	50 U	50 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	49 U	48 U	50 U	50 U	50 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	20 U	20 U	20 U
3-Nitroaniline	UG/L	49 U	48 U	50 U	50 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	48 U	50 U	50 U	50 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	03/02/04	03/03/04	03/03/04	03/03/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	49 U	48 U	50 U	50 U	50 U
4-Nitrophenol	UG/L	49 U	48 U	50 U	50 U	50 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	49 U	48 U	50 U	50 U	50 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	12	10 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	03/02/04	03/03/04	03/03/04	03/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	22 U	24 U	24 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	49 U	48 U	50 U	50 U	50 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	2 J	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	03/02/04	03/03/04	03/03/04	03/03/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.068 U	0.070 U	0.068 U	0.070 U	0.072 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 UJ	0.50 U	0.50 U	0.50 U	0.48 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	03/02/04	03/03/04	03/03/04	03/03/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 UJ	0.50 U	0.50 U	0.50 U	0.48 U
Aroclor 1232	UG/L	0.47 UJ	0.50 U	0.50 U	0.50 U	0.48 U
Aroclor 1242	UG/L	0.47 UJ	0.50 U	0.50 U	0.50 U	0.48 U
Aroclor 1248	UG/L	0.47 UJ	0.50 U	0.50 U	0.50 U	0.48 U
Aroclor 1254	UG/L	0.47 UJ	0.50 U	0.50 U	0.50 U	0.48 U
Aroclor 1260	UG/L	0.47 UJ	0.50 U	0.50 U	0.50 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	7.2 UJ	2.9 U	1.8 U	2.2 U	1.4 U
Metals						
Arsenic	UG/L	16.7	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	2,470,000	126,000	629,000	782,000	100,000
Lead	UG/L	35.0	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	961,000	43,800	91,100	113,000	28,400
Mercury	UG/L	0.200 U	0.200 U	0.200 UJ	0.200 UJ	0.200 UJ
Potassium	UG/L	93,900	2,640	20,900	24,300	4,840
Sodium	UG/L	7,000,000	96,200	464,000	627,000	6,760
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	193	325	329	297	287
Alkalinity, Total (as CaCO3)	MG/L	193	325	329	297	287
Chloride	MG/L	30,200 J	382	762	1,110	13.1
Hardness	MG/L	8,390	496	1,640	2,140	371
Monomethyl Mercury	NG/L	0.266	0.107 B	0.14 U	0.14 U	0.14 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P5	GW03-006B-P2	GW03-006B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	03/02/04	03/03/04	03/03/04	03/03/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	3,580 J	170	1,410	1,660	71.2
Total Dissolved Solids	MG/L	18,400	784	3,380	4,420	399
Total Organic Carbon (TOC)	MG/L	1.0 U	1.9	1.0 U	1.0 U	1.0 U
Total Suspended Solids	MG/L	1,740	4.0	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	12000	64	56	270	190
Total Coliform	C/100 ML	110	20 U	20 U	20 U	20 U
E Coli	POS/NEG	POS	NEG	NEG	NEG	NEG

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	03/01/04	02/27/04	02/26/04	02/26/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 UJ	5.0 UJ
Acetone	UG/L	R	R	R	R	16 J
Benzene	UG/L	0.29 J	1.0 U	24	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	03/01/04	02/27/04	02/26/04	02/26/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	0.69 J	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.4	1.0 U	22	1.0 UJ	1.0 UJ
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	3.4	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	0.68 J	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	0.94 J	1.0 U	14	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	0.51 J	1.0 U	0.52 J
Total Xylenes	UG/L	3.0 U	3.0 U	4.8	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	03/01/04	02/27/04	02/26/04	02/26/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	9 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 UJ	9 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 UJ	9 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 UJ	9 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 UJ	9 U	10 U
2,4-Dinitrophenol	UG/L	52 UJ	50 U	51 UJ	47 UJ	48 UJ
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 UJ	9 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 UJ	9 U	10 U
2-Nitroaniline	UG/L	52 U	50 U	51 U	47 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 UJ	9 U	10 U
3,3-Dichlorobenzidine	UG/L	21 U	20 U	20 U	19 U	19 U
3-Nitroaniline	UG/L	52 U	50 U	51 U	47 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	52 U	50 U	51 UJ	47 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 UJ	9 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	03/01/04	02/27/04	02/26/04	02/26/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 UJ	9 U	10 U
4-Nitroaniline	UG/L	52 U	50 U	51 U	47 U	48 U
4-Nitrophenol	UG/L	52 U	50 U	51 UJ	47 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	9 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	9 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	9 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	9 U	10 U
Benzaldehyde	UG/L	52 U	50 U	51 U	47 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	13 U	9 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Caprolactam	UG/L	10 U	10 U	12	9 U	18
Carbazole	UG/L	10 U	10 U	10 U	9 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	03/01/04	02/27/04	02/26/04	02/26/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	9 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	24 U	24 U	22 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	9 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	9 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	9 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	9 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	9 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	9 U	10 U
Pentachlorophenol	UG/L	52 U	50 U	51 UJ	47 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	9 U	10 U
Phenol	UG/L	10 U	10 U	10 UJ	9 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	03/01/04	02/27/04	02/26/04	02/26/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.053 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.069 U	0.072 U	0.069 U	0.073 U	0.076 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.52 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	03/01/04	02/27/04	02/26/04	02/26/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.52 U
Aroclor 1232	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.52 U
Aroclor 1242	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.52 U
Aroclor 1248	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.52 U
Aroclor 1254	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.52 U
Aroclor 1260	UG/L	0.50 U	0.50 U	0.47 U	0.48 U	0.52 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.6 U	1.7 U	1.5 U	1.3 U	1.2 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	16.7	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	79,000	663,000	8,230,000	216,000	433,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	27,400	62,300	3,600,000	83,200	80,500
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	2,500	9,680	289,000	2,890	9,790
Sodium	UG/L	7,320	111,000	24,300,000	13,700	93,600
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	213	276	95.6	331	262
Alkalinity, Total (as CaCO3)	MG/L	213	276	95.6	331	262
Chloride	MG/L	9.8	238	141,000 J	10.4	128
Hardness	MG/L	316	1,780	36,000	980	4,900
Monomethyl Mercury	NG/L	0.14 UJ	0.14 UJ	0.14 UJ	0.14 UJ	0.062 BJ

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Checked By__AMK 5/27/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Sample ID		GW03-007A-P1	GW03-007A-P2	GW03-007A-P3	GW03-007B-P4	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	03/01/04	02/27/04	02/26/04	02/26/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	106	1,440	1,550	669	1,220
Total Dissolved Solids	MG/L	388	2,810	99,800	1,180	2,180
Total Organic Carbon (TOC)	MG/L	5.1	3.0	1.0 U	1.6	2.2
Total Suspended Solids	MG/L	4.0 U	5.0	56.0	4.0 U	21.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	170	14 J	150	230	1000
Total Coliform	C/100 ML	20 U	20 U	720	20 U	20 U
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Sample ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/01/04	03/02/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Acetone	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Sample ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/01/04	03/02/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.5	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	R	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylcyclohexane	UG/L	1.0 U	0.42 J	0.54 J	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Sample ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/01/04	03/02/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	50 U	50 U	51 U	49 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	50 U	50 U	51 U	49 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	20 U	20 U	20 U
3-Nitroaniline	UG/L	48 U	50 U	50 U	51 U	49 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	50 U	50 U	51 U	49 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Sample ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/01/04	03/02/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	50 U	50 U	51 U	49 U
4-Nitrophenol	UG/L	48 U	50 U	50 U	51 U	49 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	48 U	50 U	50 U	51 U	49 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Sample ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/01/04	03/02/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	22 U	24 U	23 U	24 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	50 U	50 U	51 U	49 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Sample ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/01/04	03/02/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.071 U	0.071 U	0.069 U	0.073 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.50 U	0.48 U	0.49 U	0.49 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Sample ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/01/04	03/02/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.50 U	0.48 U	0.49 U	0.49 U
Aroclor 1232	UG/L	0.48 U	0.50 U	0.48 U	0.49 U	0.49 U
Aroclor 1242	UG/L	0.48 U	0.50 U	0.48 U	0.49 U	0.49 U
Aroclor 1248	UG/L	0.48 U	0.50 U	0.48 U	0.49 U	0.49 U
Aroclor 1254	UG/L	0.48 U	0.50 U	0.48 U	0.49 U	0.49 U
Aroclor 1260	UG/L	0.48 U	0.50 U	0.48 U	0.49 U	0.49 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.4 U	2.0 U	2.0 U	1.4 U	2.1 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	25.8	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	94,200	706,000	4,250,000	116,000	153,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	29,000	129,000	1,880,000	34,700	46,800
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 UJ	0.200 U
Potassium	UG/L	1,990	22,200	203,000	1,610	3,020
Sodium	UG/L	26,200	544,000	13,400,000	12,500	13,500
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	239	253	260	316	299
Alkalinity, Total (as CaCO3)	MG/L	239	253	260	316	299
Chloride	MG/L	22.8	1,040	66,800	21.1	17.7
Hardness	MG/L	398	2,810	20,600	439	673
Monomethyl Mercury	NG/L	0.14 U	0.14 U	0.14 U	0.14 UJ	0.14 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Sample ID		GW03-008A-P1	GW03-008A-P2	GW03-008A-P3	GW03-008B-P4	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/01/04	03/02/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	170	1,690	1,840	121	340
Total Dissolved Solids	MG/L	544	4,200	51,800	553	801
Total Organic Carbon (TOC)	MG/L	8.4	1.9	3.6	4.7	7.5
Total Suspended Solids	MG/L	11.0	4.0 U	6.0	4.0 U	6.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	140	19 J	1 U	120	210
Total Coliform	C/100 ML	20 U	20 U	20 U	80	20 U
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Sample ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/08/04	03/09/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	5.0 U	8.0 U	2.0 UJ	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	25 U	40 U	10 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	25 U	40 U	10 U	5.0 U
Acetone	UG/L	5.0 U	R	R	10 U	R
Benzene	UG/L	1.0 U	5.0 U	81	2.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Sample ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/08/04	03/09/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	5.0 UJ	8.0 U	2.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Chloroethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Chloroform	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Chloromethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	5.0 U	90	2.0 U	1.0 UJ
Dibromochloromethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	5.0 U	8.0 UJ	2.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	5.0 U	16	2.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	5.0 U	1.9 J	2.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 UJ
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	R	R	10 UJ	5.0 UJ
Methyl tert-butyl ether	UG/L	1.0 U	180	8.0 U	68	28 J
Methylcyclohexane	UG/L	1.0 U	5.0 U	41	2.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Styrene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Toluene	UG/L	1.0 U	5.0 U	160	2.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	15 U	120	6.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Sample ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/08/04	03/09/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	5.0 U	8.0 U	2.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	4 J	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	49 U	49 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	5 J	10 U	10 U
2-Nitroaniline	UG/L	50 U	49 U	49 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	20 U	19 U	19 U
3-Nitroaniline	UG/L	50 U	49 U	49 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	49 U	49 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Sample ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/08/04	03/09/04	03/03/04	03/03/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	6 J	10 U	10 U
4-Nitroaniline	UG/L	50 U	49 U	49 U	48 U	48 U
4-Nitrophenol	UG/L	50 U	49 U	49 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	50 U	49 U	49 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	46	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By__AMK 5/27/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Sample ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/08/04	03/09/04	03/03/04	03/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	23 U	23 U	23 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	50 U	49 U	49 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	3 J	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Sample ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/08/04	03/09/04	03/03/04	03/03/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.051 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 UJ	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.072 U	0.074 U	0.071 U	0.068 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U

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Checked By__AMK 5/27/04_

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Sample ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/08/04	03/09/04	03/03/04	03/03/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.5 U	3.3 U	1.6 U	2.5 U	1.4 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	13.8	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0
Calcium	UG/L	147,000	718,000	3,360,000 J	165,000	180,000
Lead	UG/L	6.0 U	6.0 UJ	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	40,300	64,200	1,600,000 J	48,100	46,900
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 UJ	0.200 U
Potassium	UG/L	3,890	6,920	158,000 J	4,710	5,050
Sodium	UG/L	14,100	72,800	11,000,000 J	197,000	184,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	276	299	176	320	287
Alkalinity, Total (as CaCO3)	MG/L	276	299	176	320	287
Chloride	MG/L	30.1	151	69,300 J	467	442
Hardness	MG/L	590	1,660	15,500	535	636
Monomethyl Mercury	NG/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U

Flags assigned during chemistry validation are shown.

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Sample ID		GW03-009A-P1	GW03-009A-P2	GW03-009A-P3	GW03-009B-P4	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/08/04	03/09/04	03/03/04	03/03/04
Parameter	**Units**					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	299	1,310	3,210 J	166	231
Total Dissolved Solids	MG/L	712	2,660	45,600	1,200	1,170
Total Organic Carbon (TOC)	MG/L	3.8	3.2	1.0 U	1.4	1.3
Total Suspended Solids	MG/L	4.0 U	4.0 U	26.0	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	150	89	1100	170	1600
Total Coliform	C/100 ML	20 U	100	20 U	20 U	60
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Sample ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	02/25/04	02/27/04	03/02/04	03/01/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Acetone	UG/L	5.0 U	6.8 J	R	63	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Sample ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	02/25/04	02/27/04	03/02/04	03/01/04
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	0.41 J	1.0 U	1.3	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	R	36 J	R
Methyl tert-butyl ether	UG/L	5.4	1.0 U	2.5	1.0 U	1.0 UJ
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	4.9	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Sample ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	02/25/04	02/27/04	03/02/04	03/01/04
Parameter	**Units**					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	9 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dinitrophenol	UG/L	49 U	49 UJ	48 UJ	47 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	9 U	10 U
2-Nitroaniline	UG/L	49 U	49 U	48 U	47 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	9 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	49 U	49 U	48 U	47 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	49 U	48 U	47 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	9 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Sample ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	02/25/04	02/27/04	03/02/04	03/01/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	9 U	10 U
4-Nitroaniline	UG/L	49 U	49 U	48 U	47 U	48 U
4-Nitrophenol	UG/L	49 U	49 U	48 U	47 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	9 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	9 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	9 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	9 U	10 U
Benzaldehyde	UG/L	49 U	49 U	48 U	47 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Caprolactam	UG/L	10 U	12	10 U	35	10 U
Carbazole	UG/L	10 U	10 U	10 U	9 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Sample ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	02/25/04	02/27/04	03/02/04	03/01/04
Parameter	**Units**					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	9 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	23 U	22 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	9 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	9 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	9 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	9 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	9 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	9 U	10 U
Pentachlorophenol	UG/L	49 U	49 U	48 U	47 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	9 U	10 U
Phenol	UG/L	10 U	10 U	10 U	2 J	10 U
Pyrene	UG/L	10 U	10 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Sample ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	02/25/04	02/27/04	03/02/04	03/01/04
Parameter	**Units**					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.069 U	0.072 U	0.070 U	0.072 U	0.071 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.50 U	0.48 U	0.48 UJ	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Sample ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	02/25/04	02/27/04	03/02/04	03/01/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.50 U	0.48 U	0.48 UJ	0.48 U
Aroclor 1232	UG/L	0.48 U	0.50 U	0.48 U	0.48 UJ	0.48 U
Aroclor 1242	UG/L	0.48 U	0.50 U	0.48 U	0.48 UJ	0.48 U
Aroclor 1248	UG/L	0.48 U	0.50 U	0.48 U	0.48 UJ	0.48 U
Aroclor 1254	UG/L	0.48 U	0.50 U	0.48 U	0.48 UJ	0.48 U
Aroclor 1260	UG/L	0.48 U	0.50 U	0.48 U	0.48 UJ	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.7 U	0.92 U	2.4 U	2.3 U	1.6 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	11.2	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.2	1.0 U
Calcium	UG/L	173,000	568,000	641,000	2,880,000	117,000
Lead	UG/L	7.1	6.0 U	6.0 U	25.6	6.0 U
Magnesium	UG/L	51,100	128,000	64,300	1,350,000	32,800
Mercury	UG/L	0.200 UJ	0.200 UJ	0.200 U	0.200 U	0.200 U
Potassium	UG/L	5,230	16,300	9,600	131,000	1,460
Sodium	UG/L	231,000	96,700 J	124,000	8,850,000	27,900
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	346	282	237	197	293
Alkalinity, Total (as CaCO3)	MG/L	346	282	237	197	293
Chloride	MG/L	588	176	236	11,900	54.7
Hardness	MG/L	626	1,940	1,880	14,400	490
Monomethyl Mercury	NG/L	0.14 U	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Sample ID		GW03-009B-P6	GW03-010A-P1	GW03-010A-P2	GW03-010A-P3	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	02/25/04	02/27/04	03/02/04	03/01/04
Parameter	**Units**					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	159	1,820	1,470	4,240	125
Total Dissolved Solids	MG/L	1,340	2,820	2,800	37,500	596
Total Organic Carbon (TOC)	MG/L	1.4	1.7	1.4	1.0 U	2.7
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	274	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	190	52	10 J	5300	120
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	20 U
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Sample ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/04/04	03/04/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U
Acetone	UG/L	R	R	5.0 UJ	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Sample ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/04/04	03/04/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.37 J
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 UJ	2.2 J	1.0 UJ	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Sample ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/04/04	03/04/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	9 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	9 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	9 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	9 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	9 U
2,4-Dinitrophenol	UG/L	51 U	48 U	48 U	48 U	47 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	9 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	9 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	9 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	9 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	9 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	9 U
2-Nitroaniline	UG/L	51 U	48 U	48 U	48 U	47 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	9 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	51 U	48 U	48 U	48 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	51 U	48 U	48 U	48 U	47 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	9 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	9 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	9 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Sample ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/04/04	03/04/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	9 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	9 U
4-Nitroaniline	UG/L	51 U	48 U	48 U	48 U	47 U
4-Nitrophenol	UG/L	51 U	48 U	48 U	48 U	47 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	9 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	9 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	9 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	9 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	9 U
Benzaldehyde	UG/L	51 U	48 U	48 U	48 U	47 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	9 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	9 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	9 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	9 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	9 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	9 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	9 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	9 U
Caprolactam	UG/L	10 U	10 U	10 U	10 U	9 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	9 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	9 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Sample ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/04/04	03/04/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	9 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	9 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	9 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	9 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	9 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	9 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	9 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	9 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	9 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	9 U
Hexachlorocyclopentadiene	UG/L	24 U	23 U	23 U	23 U	22 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	9 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	9 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	9 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	9 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	9 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	9 U
Pentachlorophenol	UG/L	51 U	48 U	48 U	48 U	47 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	9 U
Phenol	UG/L	10 U	10 U	10 U	10 U	9 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	9 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Sample ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/04/04	03/04/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.071 U	0.072 U	0.069 U	0.069 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Sample ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/04/04	03/04/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.48 U	0.48 U	0.50 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.6 U	1.6 U	1.9 U	2.1 U	2.2 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	4.8	1.0 U	1.0 U
Calcium	UG/L	462,000	643,000	148,000	259,000	1,400,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	84,500	70,300	49,600	72,700	340,000
Mercury	UG/L	0.200 U	0.200 U	0.200 UJ	0.200 U	0.200 U
Potassium	UG/L	2,750	10,500	3,090	10,100	52,800
Sodium	UG/L	23,300	131,000	473,000	130,000	2,240,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	261	246	310	388	364
Alkalinity, Total (as CaCO3)	MG/L	261	246	310	388	364
Chloride	MG/L	25.2	278	860	241	9,390
Hardness	MG/L	1,450	1,740	541	875	5,000
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Sample ID		GW03-010B-P5	GW03-010B-P6	GW03-010C-P7	GW03-011A-P1	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/04/04	03/04/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,160	1,460	109	962	1,790
Total Dissolved Solids	MG/L	2,020	2,810	1,840	1,420	10,200
Total Organic Carbon (TOC)	MG/L	2.0	2.2	3.4	2.0	1.4
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	95	160	390	160	16 J
Total Coliform	C/100 ML	20 U	40	160	20 U	20 U
E Coli	POS/NEG	NEG	POS	POS	NEG	NEG

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/04/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	3.1 J	5.0 U	R	5.0 U	5.0 U
Benzene	UG/L	1.0	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/04/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.9	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.2	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.8	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	2.0 J	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/04/04	03/03/04	03/03/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	9 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	9 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	9 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	9 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	47 U	50 U	48 U	48 U	50 U
2,4-Dinitrotoluene	UG/L	9 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	9 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	9 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	9 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	9 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	9 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	47 U	50 U	48 U	48 U	50 U
2-Nitrophenol	UG/L	9 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	19 U	19 U	20 U
3-Nitroaniline	UG/L	47 U	50 U	48 U	48 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	50 U	48 U	48 U	50 U
4-Bromophenyl-phenylether	UG/L	9 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	9 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	9 U	10 U	10 U	10 U	10 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/04/04	03/03/04	03/03/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	9 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	9 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	47 U	50 U	48 U	48 U	50 U
4-Nitrophenol	UG/L	47 U	50 U	48 U	48 U	50 U
Acenaphthene	UG/L	9 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	9 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	9 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	9 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	9 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	47 U	50 U	48 U	48 U	50 U
Benzo(a)anthracene	UG/L	9 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	9 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	9 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	9 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	9 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	9 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	9 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	8 J	10 U	10 U	10 U	10 U
Carbazole	UG/L	9 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	9 U	10 U	10 U	10 U	10 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/04/04	03/03/04	03/03/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	9 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	9 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	9 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	9 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	9 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	9 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	22 U	24 U	22 U	22 U	24 U
Hexachloroethane	UG/L	9 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	9 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	9 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	9 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	9 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	9 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	47 U	50 U	48 U	48 U	50 U
Phenanthrene	UG/L	9 U	10 U	10 U	10 U	10 U
Phenol	UG/L	9 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	9 U	10 U	10 U	10 U	10 U

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/04/04	03/03/04	03/03/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.069 U	0.072 U	0.069 U	0.070 U	0.071 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/04/04	03/03/04	03/03/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.0 U	1.3 U	2.3 U	1.2 U	1.5 U
Metals						
Arsenic	UG/L	10.8	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0
Calcium	UG/L	3,500,000	91,200	87,800	171,000	190,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	1,220,000	66,300	76,000	40,700	47,000
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	162,000	2,010	2,380	41,700	4,410
Sodium	UG/L	9,470,000 J	33,300	32,000	49,600	893,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	347	377	398	341	257
Alkalinity, Total (as CaCO3)	MG/L	347	377	398	341	257
Chloride	MG/L	47,000	21.0	48.4	7.9	1,390
Hardness	MG/L	11,700	596	521	542	667
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011A-P3	GW03-011B-P4	GW03-011C-P7	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/04/04	03/03/04	03/03/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	2,290	192	203	416	207
Total Dissolved Solids	MG/L	36,600	605	573	824	2,760
Total Organic Carbon (TOC)	MG/L	1.0 U	1.8	2.0	1.9	1.3
Total Suspended Solids	MG/L	5.0	4.0 U	4.0 U	4.0 U	4.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1 U	340	210	4 J	130
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	40
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/03/04	03/03/04	02/26/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-Pentanone	UG/L	25 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Acetone	UG/L	120 J	5.0 U	5.0 U	5.0 U	R
Benzene	UG/L	100	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/03/04	03/03/04	02/26/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	5.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.5 J	0.30 J	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	22	0.70 J	1.0 U	1.0 U	1.0 UJ
Dibromochloromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	4.1 J	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	53	5.0 U	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	3.5 J	2.0	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	61	0.76 J	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	44	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/03/04	03/03/04	02/26/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	3 J	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	48 U	48 U	48 U	51 UJ
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	3 J	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	50 U	48 U	48 U	48 U	51 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	19 U	19 U	20 U
3-Nitroaniline	UG/L	50 U	48 U	48 U	48 U	51 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	48 U	48 U	48 U	51 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/03/04	03/03/04	02/26/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	4 J	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	50 U	48 U	48 U	48 U	51 U
4-Nitrophenol	UG/L	50 U	48 U	48 U	48 U	51 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	7 J	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	50 U	48 U	48 U	48 U	51 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	86	8 J	8 J	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

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Checked By__AMK 5/27/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/03/04	03/03/04	02/26/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	23 U	23 U	23 U	24 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	50 U	48 U	48 U	48 U	51 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	17	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/03/04	03/03/04	02/26/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.070 U	0.068 U	0.071 U	0.070 U	0.073 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.57 U	0.48 U	0.47 U	0.51 U

Flags assigned during chemistry validation are shown.

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/03/04	03/03/04	02/26/04
Parameter	**Units**					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.57 U	0.48 U	0.47 U	0.51 U
Aroclor 1232	UG/L	0.48 U	0.57 U	0.48 U	0.47 U	0.51 U
Aroclor 1242	UG/L	0.48 U	0.57 U	0.48 U	0.47 U	0.51 U
Aroclor 1248	UG/L	0.48 U	0.57 U	0.48 U	0.47 U	0.51 U
Aroclor 1254	UG/L	0.48 U	0.57 U	0.48 U	0.47 U	0.51 U
Aroclor 1260	UG/L	0.48 U	0.57 U	0.48 U	0.47 U	0.51 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.7 U	3.0 U	1.7 U	1.7 U	1.7 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	2.1	1.0 U	1.0 U	1.6	1.0 U
Calcium	UG/L	9,530,000	436,000	371,000	175,000	130,000
Lead	UG/L	32.6	6.0 U	6.0 U	10.0	6.0 U
Magnesium	UG/L	3,570,000	59,200	60,500	57,500	39,500
Mercury	UG/L	0.200 U	0.200 U	0.200 UJ	0.200 UJ	0.200 U
Potassium	UG/L	423,000	8,700	10,500	3,090	2,870
Sodium	UG/L	27,100,000 J	673,000	801,000	435,000	265,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	129	323	292	326	280
Alkalinity, Total (as CaCO3)	MG/L	129	323	292	326	280
Chloride	MG/L	17,500	1,080	1,280	802	615
Hardness	MG/L	35,600	1,400	1,060	629	612
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012A-P3	GW03-012B-P5	GW03-012B-P6	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/03/04	03/03/04	03/03/04	02/26/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	2,540	776	656	166	214
Total Dissolved Solids	MG/L	107,000	2,930	3,270	1,660	1,250
Total Organic Carbon (TOC)	MG/L	1.0	1.6	1.2	1.6	1.8
Total Suspended Solids	MG/L	53.0	4.0 U	5.0	149	7.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1700	2400	750	3100	490
Total Coliform	C/100 ML	80	60	20 U	20	20 U
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	02/26/04	02/26/04	02/26/04	02/27/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	1.0 U	R	R	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	0.22 J	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	9.3 J
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	0.91 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	02/26/04	02/26/04	02/26/04	02/27/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.1	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 UJ	1.0 U	0.39 J	0.38 J
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	R	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	0.69 J	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	0.43 J	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	02/26/04	02/26/04	02/26/04	02/27/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	NA
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	NA
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	NA
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	NA
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	NA
2,4-Dinitrophenol	UG/L	50 UJ	50 UJ	48 UJ	48 UJ	NA
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	NA
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	NA
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	NA
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	NA
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	NA
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	NA
2-Nitroaniline	UG/L	50 U	50 U	48 U	48 U	NA
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	NA
3,3-Dichlorobenzidine	UG/L	20 U	20 U	19 U	19 U	NA
3-Nitroaniline	UG/L	50 U	50 U	48 U	48 U	NA
4,6-Dinitro-2-methylphenol	UG/L	50 U	50 U	48 U	48 U	NA
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	NA
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	NA
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	02/26/04	02/26/04	02/26/04	02/27/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	NA
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	NA
4-Nitroaniline	UG/L	50 U	50 U	48 U	48 U	NA
4-Nitrophenol	UG/L	50 U	50 U	48 U	48 U	NA
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	NA
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	NA
Acetophenone	UG/L	10 U	10 U	10 U	10 U	NA
Anthracene	UG/L	10 U	10 U	10 U	10 U	NA
Atrazine	UG/L	10 U	10 U	10 U	10 U	NA
Benzaldehyde	UG/L	50 U	50 U	48 U	48 U	NA
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	NA
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	NA
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	NA
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	NA
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	NA
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	NA
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	NA
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Caprolactam	UG/L	10 U	10 U	10 U	10 U	NA
Carbazole	UG/L	10 U	10 U	10 U	10 U	NA
Chrysene	UG/L	10 U	10 U	10 U	10 U	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	02/26/04	02/26/04	02/26/04	02/27/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	NA
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	NA
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	NA
Fluorene	UG/L	10 U	10 U	10 U	10 U	NA
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	NA
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	NA
Hexachlorocyclopentadiene	UG/L	24 U	24 U	23 U	23 U	NA
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	NA
Isophorone	UG/L	10 U	10 U	10 U	10 U	NA
Naphthalene	UG/L	10 U	10 U	10 U	10 U	NA
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	NA
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	NA
Pentachlorophenol	UG/L	50 U	50 U	48 U	48 U	NA
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	NA
Phenol	UG/L	10 U	10 U	10 U	10 U	NA
Pyrene	UG/L	10 U	10 U	10 U	10 U	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	02/26/04	02/26/04	02/26/04	02/27/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endrin ketone	UG/L	0.072 U	0.069 U	0.072 U	0.070 U	NA
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.47 U	0.49 U	0.48 U	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	02/26/04	02/26/04	02/26/04	02/27/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.47 U	0.49 U	0.48 U	NA
Aroclor 1232	UG/L	0.50 U	0.47 U	0.49 U	0.48 U	NA
Aroclor 1242	UG/L	0.50 U	0.47 U	0.49 U	0.48 U	NA
Aroclor 1248	UG/L	0.50 U	0.47 U	0.49 U	0.48 U	NA
Aroclor 1254	UG/L	0.50 U	0.47 U	0.49 U	0.48 U	NA
Aroclor 1260	UG/L	0.50 U	0.47 U	0.49 U	0.48 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.3 U	1.2 U	1.1 U	0.98 U	NA
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	NA
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Calcium	UG/L	98,100	186,000	131,000	371,000	NA
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	NA
Magnesium	UG/L	23,600	42,800	40,100	58,000	NA
Mercury	UG/L	0.200 UJ	0.200 U	0.200 U	0.200 U	NA
Potassium	UG/L	4,390	10,600	2,800	13,300	NA
Sodium	UG/L	99,500 J	244,000	261,000	99,800	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	133	121	282	325	242
Alkalinity, Total (as CaCO3)	MG/L	133	121	282	325	242
Chloride	MG/L	295	806	499	253	NA
Hardness	MG/L	404	3,800	485	1,060	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013A-P2	GW03-013A-P3	GW03-013B-P4	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	02/26/04	02/26/04	02/26/04	02/27/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	135	295	186	755	NA
Total Dissolved Solids	MG/L	676	1,520	1,200	1,740	NA
Total Organic Carbon (TOC)	MG/L	1.7	1.0 U	2.0	1.8	5.9
Total Suspended Solids	MG/L	4.0 U	4.0 U	12.0	4.0 U	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	59	79	960	440	NA
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	03/03/04	03/01/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,1-Dichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,1-Dichloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	NA	1.0 U	1.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,2-Dichloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 UJ
1,2-Dichloroethene (trans)	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,2-Dichloropropane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
2-Hexanone	UG/L	5.0 U	NA	5.0 U	5.0 U	25 UJ
4-Methyl-2-Pentanone	UG/L	5.0 U	NA	5.0 U	5.0 U	25 UJ
Acetone	UG/L	R	NA	48 J	5.0 U	25 UJ
Benzene	UG/L	1.0 U	NA	0.72 J	0.91 J	150
Bromodichloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	03/03/04	03/01/04
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Bromomethane	UG/L	1.0 UJ	NA	1.0 U	1.0 U	5.0 U
Carbon Disulfide	UG/L	1.0 U	NA	9.1	1.0 U	5.0 U
Carbon Tetrachloride	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Chlorobenzene	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Chloroethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Chloroform	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Chloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Cyclohexane	UG/L	1.0 U	NA	1.2	2.2	26
Dibromochloromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Dichlorodifluoromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Ethylbenzene	UG/L	1.0 U	NA	0.32 J	1.0 U	5.9
Isopropylbenzene (Cumene)	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Methyl acetate	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 UJ
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	NA	9.4 J	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 UJ
Methylcyclohexane	UG/L	1.0 U	NA	1.0 U	0.76 J	8.8
Methylene Chloride	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Styrene	UG/L	1.0 U	NA	0.57 J	1.0 U	5.0 U
Tetrachloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Toluene	UG/L	1.0 U	NA	3.6	0.42 J	130
Total Xylenes	UG/L	3.0 U	NA	1.0 J	3.0 U	68
Trichloroethene	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	03/03/04	03/01/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Vinyl Chloride	UG/L	1.0 U	NA	1.0 U	1.0 U	5.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	10 U	10 U	10 U	9 U
2,4,5-Trichlorophenol	UG/L	NA	10 U	10 U	10 U	9 U
2,4,6-Trichlorophenol	UG/L	NA	10 U	10 U	10 U	9 U
2,4-Dichlorophenol	UG/L	NA	10 U	10 U	10 U	9 U
2,4-Dimethylphenol	UG/L	NA	10 U	10 U	10 U	2 J
2,4-Dinitrophenol	UG/L	NA	48 U	48 UJ	48 U	47 U
2,4-Dinitrotoluene	UG/L	NA	10 U	10 U	10 U	9 U
2,6-Dinitrotoluene	UG/L	NA	10 U	10 U	10 U	9 U
2-Chloronaphthalene	UG/L	NA	10 U	10 U	10 U	9 U
2-Chlorophenol	UG/L	NA	10 U	10 U	10 U	9 U
2-Methylnaphthalene	UG/L	NA	10 U	10 U	10 U	9 U
2-Methylphenol (o-cresol)	UG/L	NA	10 U	10 U	10 U	4 J
2-Nitroaniline	UG/L	NA	48 U	48 U	48 U	47 U
2-Nitrophenol	UG/L	NA	10 U	10 U	10 U	9 U
3,3-Dichlorobenzidine	UG/L	NA	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	NA	48 U	48 U	48 U	47 U
4,6-Dinitro-2-methylphenol	UG/L	NA	48 U	48 U	48 U	47 U
4-Bromophenyl-phenylether	UG/L	NA	10 U	10 U	10 U	9 U
4-Chloro-3-methylphenol	UG/L	NA	10 U	10 U	10 U	9 U
4-Chloroaniline	UG/L	NA	10 U	10 U	10 U	9 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	03/03/04	03/01/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	10 U	10 U	10 U	9 U
4-Methylphenol (p-cresol)	UG/L	NA	10 U	10 U	10 U	6 J
4-Nitroaniline	UG/L	NA	48 U	48 U	48 U	47 U
4-Nitrophenol	UG/L	NA	48 U	48 U	48 U	47 U
Acenaphthene	UG/L	NA	10 U	10 U	10 U	9 U
Acenaphthylene	UG/L	NA	10 U	10 U	10 U	9 U
Acetophenone	UG/L	NA	10 U	10 U	10 U	9 U
Anthracene	UG/L	NA	10 U	10 U	10 U	9 U
Atrazine	UG/L	NA	10 U	10 U	10 U	9 U
Benzaldehyde	UG/L	NA	48 U	48 U	48 U	47 U
Benzo(a)anthracene	UG/L	NA	10 U	10 U	10 U	9 U
Benzo(a)pyrene	UG/L	NA	10 U	10 U	10 U	9 U
Benzo(b)fluoranthene	UG/L	NA	10 U	10 U	10 U	9 U
Benzo(g,h,i)perylene	UG/L	NA	10 U	10 U	10 U	9 U
Benzo(k)fluoranthene	UG/L	NA	10 U	10 U	10 U	9 U
bis(2-Chloroethoxy)methane	UG/L	NA	10 U	10 U	10 U	9 U
bis(2-Chloroethyl)ether	UG/L	NA	10 U	10 U	10 U	9 U
bis(2-Chloroisopropyl)ether	UG/L	NA	10 U	10 U	10 U	9 U
bis(2-Ethylhexyl)phthalate	UG/L	NA	10 U	10 U	10 U	9 U
Butylbenzylphthalate	UG/L	NA	10 U	10 U	10 U	9 U
Caprolactam	UG/L	NA	10 U	21	12	10
Carbazole	UG/L	NA	10 U	10 U	10 U	9 U
Chrysene	UG/L	NA	10 U	10 U	10 U	9 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	03/03/04	03/01/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	10 U	10 U	10 U	9 U
Dibenzofuran	UG/L	NA	10 U	10 U	10 U	9 U
Diethylphthalate	UG/L	NA	10 U	10 U	10 U	9 U
Dimethylphthalate	UG/L	NA	10 U	10 U	10 U	9 U
Di-n-butylphthalate	UG/L	NA	10 U	10 U	10 U	9 U
Di-n-octylphthalate	UG/L	NA	10 U	10 U	10 U	9 U
Fluoranthene	UG/L	NA	10 U	10 U	10 U	9 U
Fluorene	UG/L	NA	10 U	10 U	10 U	9 U
Hexachlorobenzene	UG/L	NA	10 U	10 U	10 U	9 U
Hexachlorobutadiene	UG/L	NA	10 U	10 U	10 U	9 U
Hexachlorocyclopentadiene	UG/L	NA	23 U	22 U	22 U	22 U
Hexachloroethane	UG/L	NA	10 U	10 U	10 U	9 U
Indeno(1,2,3-cd)pyrene	UG/L	NA	10 U	10 U	10 U	9 U
Isophorone	UG/L	NA	10 U	10 U	10 U	9 U
Naphthalene	UG/L	NA	10 U	10 U	10 U	9 U
Nitrobenzene	UG/L	NA	10 U	10 U	10 U	9 U
N-Nitroso-di-n-propylamine	UG/L	NA	10 U	10 U	10 U	9 U
N-Nitrosodiphenylamine	UG/L	NA	10 U	10 U	10 U	9 U
Pentachlorophenol	UG/L	NA	48 U	48 U	48 U	47 U
Phenanthrene	UG/L	NA	10 U	10 U	10 U	9 U
Phenol	UG/L	NA	10 U	10 U	10 U	16
Pyrene	UG/L	NA	10 U	10 U	10 U	9 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	03/03/04	03/01/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	NA	0.050 U	0.050 U	0.042 J	0.050 U
Dieldrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	NA	0.069 U	0.069 U	0.069 U	0.068 U
gamma-BHC (Lindane)	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	NA	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	NA	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	0.51 U	0.50 U	0.47 U	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	03/03/04	03/01/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	0.51 U	0.50 U	0.47 U	0.48 U
Aroclor 1232	UG/L	NA	0.51 U	0.50 U	0.47 U	0.48 U
Aroclor 1242	UG/L	NA	0.51 U	0.50 U	0.47 U	0.48 U
Aroclor 1248	UG/L	NA	0.51 U	0.50 U	0.47 U	0.48 U
Aroclor 1254	UG/L	NA	0.51 U	0.50 U	0.47 U	0.48 U
Aroclor 1260	UG/L	NA	0.51 U	0.50 U	0.47 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	2.1 U	1.8 U	1.1 U	1.9 U
Metals						
Arsenic	UG/L	10.0 U	NA	26.8	10.0 U	23.3
Cadmium	UG/L	1.0 U	NA	1.0	1.7	1.0 U
Calcium	UG/L	226,000	NA	668,000	2,550,000	30,100,000
Lead	UG/L	6.0 U	NA	15.8	6.0 U	6.0 U
Magnesium	UG/L	62,100	NA	171,000	800,000	9,870,000
Mercury	UG/L	0.200 U	NA	0.200 U	0.200 UJ	0.200 UJ
Potassium	UG/L	4,300	NA	14,900	121,000	545,000
Sodium	UG/L	22,500	NA	690,000	8,310,000	38,100,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	342	NA	543	144	65.1
Alkalinity, Total (as CaCO3)	MG/L	342	NA	543	144	65.1
Chloride	MG/L	25.8	NA	1,320	49,900	297,000
Hardness	MG/L	711	NA	3,090	11,900	58,800
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P2	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	02/27/04	03/03/04	03/01/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	488	NA	2,680	5,630	3,000
Total Dissolved Solids	MG/L	1,090	NA	4,520	27,300	143,000
Total Organic Carbon (TOC)	MG/L	2.6	NA	2.0	1.1	1.0 U
Total Suspended Solids	MG/L	32.0	NA	245	114	136
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	44000	NA	1200	79000	80 J
Total Coliform	C/100 ML	20 U	NA	20 U	20 U	20 U
E Coli	POS/NEG	NEG	NA	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Sample ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/25/04	02/25/04	02/26/04	03/05/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	R	R	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	0.54 J	0.52 J	1.1	1.0 U	0.96 J
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	0.51 J	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	0.33 J	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Sample ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/25/04	02/25/04	02/26/04	03/05/04
Parameter	**Units**					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	0.34 J	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0	1.0 U	0.36 J
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.6	1.0 U	1.0

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Sample ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/25/04	02/25/04	02/26/04	03/05/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	2.8	1.0 U	1.0 U	4.5
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	9 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	9 U	10 U
2,4-Dinitrophenol	UG/L	50 UJ	48 UJ	48 UJ	47 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	9 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	9 U	10 U
2-Nitroaniline	UG/L	50 U	48 U	48 U	47 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	9 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	50 U	48 U	48 U	47 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	48 U	48 U	47 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	9 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Sample ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/25/04	02/25/04	02/26/04	03/05/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	9 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	9 U	10 U
4-Nitroaniline	UG/L	50 U	48 U	48 U	47 U	48 U
4-Nitrophenol	UG/L	50 U	48 U	48 U	47 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	9 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	9 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	9 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	9 U	10 U
Benzaldehyde	UG/L	50 U	48 U	48 U	47 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	9 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	9 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Caprolactam	UG/L	10 U	8 J	10 U	9 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	9 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Sample ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/25/04	02/25/04	02/26/04	03/05/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	9 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	9 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	9 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	9 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	9 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	23 U	23 U	22 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	9 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	9 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	9 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	9 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	9 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	9 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	9 U	10 U
Pentachlorophenol	UG/L	50 U	48 U	48 U	47 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	9 U	10 U
Phenol	UG/L	10 U	10 U	10 U	9 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	9 U	10 U

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Sample ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/25/04	02/25/04	02/26/04	03/05/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.072 U	0.070 U	0.070 U	0.070 U	0.068 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.48 U	0.48 U	0.48 U	0.48 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Sample ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/25/04	02/25/04	02/26/04	03/05/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.50 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.50 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.50 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.50 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.50 U	0.48 U	0.48 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.0 U	1.2 U	1.1 U	1.1 U	2.0 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	3.4	1.0 U
Calcium	UG/L	198,000	365,000	113,000	336,000	115,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	52,200	53,300	14,000	81,500	18,500
Mercury	UG/L	0.200 U	0.200 UJ	0.200 UJ	0.200 U	0.200 U
Potassium	UG/L	5,390	8,240	2,290	14,700	2,350
Sodium	UG/L	98,400	93,700 J	22,100 J	1,620,000	27,700
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	314	312	122	197	133
Alkalinity, Total (as CaCO3)	MG/L	314	312	122	197	133
Chloride	MG/L	153	190	39.6	4,720	46.6
Hardness	MG/L	557	1,160	392	1,090	342
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Sample ID		GW03-014B-P4	GW03-014B-P5	GW03-014B-P6	GW03-014C-P7	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/25/04	02/25/04	02/26/04	03/05/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	473	718	256	647	138
Total Dissolved Solids	MG/L	1,160	1,580	474	5,520	681
Total Organic Carbon (TOC)	MG/L	2.0	3.4	1.5	2.0	1.3
Total Suspended Solids	MG/L	8.0	4.0 U	4.0 U	4.0	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	44	210	9 J	730	39
Total Coliform	C/100 ML	20 U	20 U	20 U	120	120
E Coli	POS/NEG	NEG	NEG	NEG	NEG	POS

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Sample ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/04	03/09/04	03/04/04	03/08/04	03/09/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	5.0 U	1.0 U	1.0 U	1.9 J	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	5.0 U	1.0 U	1.0 U	3.2 J	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	5.0 U	1.0 U	1.0 U	2.9 J	1.0 U
1,1-Dichloroethane	UG/L	5.0 U	1.0 U	1.0 U	2.8 J	1.0 U
1,1-Dichloroethene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2-Dichloroethane	UG/L	5.0 U	1.0 U	1.0 U	45	1.0 U
1,2-Dichloroethene (cis)	UG/L	5.0 U	1.0 U	1.0 U	5.9	1.0 U
1,2-Dichloroethene (trans)	UG/L	5.0 U	1.0 U	1.0 U	140	1.0 U
1,2-Dichloropropane	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
2-Hexanone	UG/L	25 U	5.0 U	5.0 U	20 U	5.0 U
4-Methyl-2-Pentanone	UG/L	25 U	5.0 U	5.0 U	20 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	5.0 U	9.2	1.0 U	2.0 J	1.0 U
Bromodichloromethane	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Sample ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/04	03/09/04	03/04/04	03/08/04	03/09/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Bromomethane	UG/L	5.0 U	1.0 U	1.0 UJ	4.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	6.6	1.0 U	1.0 U	4.0	1.0 U
Carbon Tetrachloride	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Chlorobenzene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Chloroethane	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Chloroform	UG/L	5.0 U	1.0 U	1.0 U	2.6 J	1.0 U
Chloromethane	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Cyclohexane	UG/L	5.0 U	3.2	1.0 U	1.8 J	1.0 U
Dibromochloromethane	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Dichlorodifluoromethane	UG/L	5.0 U	1.0 UJ	1.0 U	4.0 U	1.0 U
Ethylbenzene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Methyl acetate	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	25 U	R	5.0 U	R	5.0 U
Methyl tert-butyl ether	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Methylcyclohexane	UG/L	5.0 U	0.60 J	1.0 U	1.8 J	1.0 U
Methylene Chloride	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Styrene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Tetrachloroethene	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Toluene	UG/L	5.0 U	2.6	1.0 U	1.4 J	1.0 U
Total Xylenes	UG/L	15 U	2.3 J	3.0 U	12 U	3.0 U
Trichloroethene	UG/L	5.0 U	1.0 U	1.0 U	3.7 J	0.30 J

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Sample ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/04	03/09/04	03/04/04	03/08/04	03/09/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	5.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Vinyl Chloride	UG/L	5.0 U	1.0 U	1.0 U	30	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	11 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	11 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	11 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	11 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	11 U	10 U	10 U
2,4-Dinitrophenol	UG/L	49 U	48 U	57 U	48 U	50 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	11 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	11 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	11 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	11 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	11 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	11 U	10 U	10 U
2-Nitroaniline	UG/L	49 U	48 U	57 U	48 U	50 U
2-Nitrophenol	UG/L	10 U	10 U	11 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	23 U	19 U	20 U
3-Nitroaniline	UG/L	49 U	48 U	57 U	48 U	50 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	48 U	57 U	48 U	50 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	11 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	11 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	11 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Sample ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/04	03/09/04	03/04/04	03/08/04	03/09/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	11 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	11 U	10 U	10 U
4-Nitroaniline	UG/L	49 U	48 U	57 U	48 U	50 U
4-Nitrophenol	UG/L	49 U	48 U	57 U	48 U	50 U
Acenaphthene	UG/L	10 U	10 U	11 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	11 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	11 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	11 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	11 U	10 U	10 U
Benzaldehyde	UG/L	49 U	48 U	57 U	48 U	50 U
Benzo(a)anthracene	UG/L	10 U	10 U	11 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	11 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	11 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	11 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	11 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	11 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	11 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	11 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Caprolactam	UG/L	14	10 U	11 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	11 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	11 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Sample ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/04	03/09/04	03/04/04	03/08/04	03/09/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	11 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	11 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	11 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	11 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	11 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	11 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	11 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	27 U	23 U	23 U
Hexachloroethane	UG/L	10 U	10 U	11 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	11 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	11 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	11 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	11 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	11 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	11 U	10 U	10 U
Pentachlorophenol	UG/L	49 U	48 U	57 U	48 U	50 U
Phenanthrene	UG/L	10 U	10 U	11 U	10 U	10 U
Phenol	UG/L	1 J	7 J	11 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	11 U	10 U	10 U

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Sample ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/04	03/09/04	03/04/04	03/08/04	03/09/04
Parameter	**Units**					
Pesticides						
4,4-DDD	UG/L	0.050 U	NA	0.052 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	NA	0.050 U	0.016 J	0.050 U
Dieldrin	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	NA	0.050 U	0.050 UJ	0.050 U
Endrin aldehyde	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.071 U	NA	0.074 U	0.068 U	0.071 U
gamma-BHC (Lindane)	UG/L	0.050 U	NA	0.050 U	0.050 U	0.038 J
gamma-Chlordane	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	NA	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	NA	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.52 U	0.48 U	0.50 U	0.48 U	0.50 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Sample ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/04	03/09/04	03/04/04	03/08/04	03/09/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.52 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.52 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.52 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.52 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.52 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.52 U	0.48 U	0.50 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.8 U	NA	3.2 U	1.5 U	2.7 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.1	1.0 U	1.0 U	1.0 U
Calcium	UG/L	4,920,000	7,820,000 J	242,000	476,000	73,200
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 UJ	6.0 U
Magnesium	UG/L	1,520,000	2,700,000 J	57,800	68,400	13,300
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	246,000	228,000 J	3,550	12,700	2,610
Sodium	UG/L	13,300,000	21,800,000 J	113,000 J	192,000 J	50,000
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	282	90.2	315	306	98.8
Alkalinity, Total (as CaCO3)	MG/L	282	90.2	315	306	98.8
Chloride	MG/L	83,900 J	154,000 J	235	505	115 J
Hardness	MG/L	18,200	28,000	938	1,300	214
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Sample ID		GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/10/04	03/09/04	03/04/04	03/08/04	03/09/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	2,410 J	2,420 J	643	897	107 J
Total Dissolved Solids	MG/L	48,700	78,100	1,350	2,220	398
Total Organic Carbon (TOC)	MG/L	1.0 U	1.0 U	2.9	4.0	1.1
Total Suspended Solids	MG/L	35.0	218	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	26 J	3500	2 J	21 J	120
Total Coliform	C/100 ML	20 U	20 U	20 U	20 U	80
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Sample ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/04/04	03/05/04	03/08/04	03/04/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,1-Dichloroethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,1-Dichloroethene	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	4.0 U	1.0 U	3.2	1.0 J	1.0 U
1,2-Dichloroethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.4 J	6.3	0.56 J	9.0	11
1,2-Dichloroethene (trans)	UG/L	3.7 J	1.0 U	1.0 U	3.7 J	1.0 U
1,2-Dichloropropane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	4.0 U	1.0 U	2.0	4.0 U	0.44 J
1,3-Dichloropropene (cis)	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	4.0 U	1.0 U	5.8	1.2 J	0.46 J
2-Hexanone	UG/L	20 U	5.0 U	5.0 U	20 U	5.0 U
4-Methyl-2-Pentanone	UG/L	20 U	5.0 U	5.0 U	20 U	5.0 U
Acetone	UG/L	R	R	5.0 U	R	R
Benzene	UG/L	1.6 J	5.7	1.0 U	92	11
Bromodichloromethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Sample ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/04/04	03/05/04	03/08/04	03/04/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Bromomethane	UG/L	4.0 UJ	1.0 UJ	1.0 UJ	4.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.4 J	1.0 U	1.0 U	4.0 U	1.0 U
Carbon Tetrachloride	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Chlorobenzene	UG/L	4.0 U	1.0 U	9.7	4.8	1.0
Chloroethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Chloroform	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Chloromethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Cyclohexane	UG/L	4.0 U	1.0 U	1.0 U	91	1.0 U
Dibromochloromethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Dichlorodifluoromethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 UJ	1.0 U
Ethylbenzene	UG/L	4.0 U	1.0 U	1.0 U	13	1.0 U
Isopropylbenzene (Cumene)	UG/L	4.0 U	1.0 U	1.0 U	1.8 J	1.0 U
Methyl acetate	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	5.0 U	R	5.0 U
Methyl tert-butyl ether	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Methylcyclohexane	UG/L	4.0 U	1.0 U	1.0 U	36	1.0 U
Methylene Chloride	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Styrene	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Tetrachloroethene	UG/L	4.0 U	4.5	1.0 U	4.0 U	1.2
Toluene	UG/L	4.0 U	1.0 U	1.0 U	130	1.0 U
Total Xylenes	UG/L	12 U	3.0 U	3.0 U	120	3.0 U
Trichloroethene	UG/L	4.0 U	8.7	1.0 U	4.0 U	2.5

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Sample ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/04/04	03/05/04	03/08/04	03/04/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	4.0 U	1.0 U	1.0 U	4.0 U	1.0 U
Vinyl Chloride	UG/L	90	2.5	1.0 U	12	4.1
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	49 U	48 U	48 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	49 U	48 U	48 U	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U	19 U	19 U	19 U
3-Nitroaniline	UG/L	49 U	48 U	48 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	48 U	48 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Sample ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/04/04	03/05/04	03/08/04	03/04/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	1 J	10 U
4-Nitroaniline	UG/L	49 U	48 U	48 U	48 U	48 U
4-Nitrophenol	UG/L	49 U	48 U	48 U	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	49 U	48 U	48 U	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Sample ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/04/04	03/05/04	03/08/04	03/04/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	23 U	23 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	49 U	48 U	48 U	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Sample ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/04/04	03/05/04	03/08/04	03/04/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.100 NJ	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.053	0.028 J	0.032 J	0.027 J
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.069 U	0.070 U	0.072 U	0.068 U	0.071 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Sample ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/04/04	03/05/04	03/08/04	03/04/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1232	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1242	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1248	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1254	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Aroclor 1260	UG/L	0.50 U	0.48 U	0.49 U	0.48 U	0.48 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	2.5 U	2.0 U	1.9 U	1.3 U	1.6 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	114,000	70,300	460,000	1,600,000	79,900
Lead	UG/L	6.0 UJ	6.0 U	6.0 U	6.0 UJ	6.0 U
Magnesium	UG/L	41,400	11,000	17,200	461,000	12,200
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	3,190	3,930	4,570	72,900	1,510
Sodium	UG/L	31,400	31,100	38,600	4,220,000 J	37,400
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	192	103	112	218	111
Alkalinity, Total (as CaCO3)	MG/L	192	103	112	218	114
Chloride	MG/L	45.3	42.1	55.6	16,200	39.4
Hardness	MG/L	446	233	1,170	5,470	263
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Sample ID		GW03-015C-P7	GW03-016A-P1	GW03-016A-P2	GW03-016A-P3	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/04/04	03/05/04	03/08/04	03/04/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	277	109	958	1,200	143
Total Dissolved Solids	MG/L	621	334	1,710	15,700	1,690
Total Organic Carbon (TOC)	MG/L	3.1	1.3	1.0 U	1.0 U	1.4
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	39.0	6.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	27 J	1300	440	88	290
Total Coliform	C/100 ML	20 U	20 U	20	20 U	29
E Coli	POS/NEG	NEG	NEG	NEG	NEG	POS

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Sample ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/09/04	03/04/04	03/04/04	02/24/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloroethene (cis)	UG/L	6.6	1.7	1.1	1.8	92
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	6.4
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	0.34 J	1.0 U	1.0 U	5.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	0.93 J	1.0 U	0.48 J	5.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	25 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Acetone	UG/L	5.0 U	R	R	R	R
Benzene	UG/L	7.1	0.53 J	1.0 U	1.0 U	2.1 J
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Sample ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/09/04	03/04/04	03/04/04	02/24/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chlorobenzene	UG/L	1.6	1.3	1.0 U	1.0 U	5.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Tetrachloroethene	UG/L	1.2	0.34 J	0.48 J	0.99 J	5.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	15 U
Trichloroethene	UG/L	2.6	0.97 J	1.2	1.8	5.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Sample ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/09/04	03/04/04	03/04/04	02/24/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Vinyl Chloride	UG/L	2.6	1.1	1.0 U	1.0 U	130
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	9 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	9 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	9 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	9 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	9 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	47 U	50 U	49 U	48 U	48 U
2,4-Dinitrotoluene	UG/L	9 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	9 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	9 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	9 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	9 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	9 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	47 U	50 U	49 U	48 U	48 U
2-Nitrophenol	UG/L	9 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	20 U	20 U	19 U	19 U
3-Nitroaniline	UG/L	47 U	50 U	49 U	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	50 U	49 U	48 U	48 U
4-Bromophenyl-phenylether	UG/L	9 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	9 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	9 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Sample ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/09/04	03/04/04	03/04/04	02/24/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	9 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	9 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	47 U	50 U	49 U	48 U	48 U
4-Nitrophenol	UG/L	47 U	50 U	49 U	48 U	48 U
Acenaphthene	UG/L	9 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	9 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	9 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	9 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	9 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	47 U	50 U	49 U	48 U	48 U
Benzo(a)anthracene	UG/L	9 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	9 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	9 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	9 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	9 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	9 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	9 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	9 U	10 U	10 U	10 U	9 J
Carbazole	UG/L	9 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	9 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Sample ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/09/04	03/04/04	03/04/04	02/24/04
Parameter	**Units**					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	9 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	9 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	9 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	9 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	9 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	9 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	9 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	22 U	24 U	23 U	23 U	23 U
Hexachloroethane	UG/L	9 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	9 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	9 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	9 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	9 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	9 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	47 U	50 U	49 U	48 U	48 U
Phenanthrene	UG/L	9 U	10 U	10 U	10 U	10 U
Phenol	UG/L	9 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	9 U	10 U	10 U	10 U	10 U

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Sample ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/09/04	03/04/04	03/04/04	02/24/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.033 J	0.024 J	0.023 J	0.035 J	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.070 U	0.070 U	0.070 U	0.070 U	0.071 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	0.48 U	0.50 U	0.49 U	0.47 U

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Sample ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/09/04	03/04/04	03/04/04	02/24/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	0.48 U	0.50 U	0.49 U	0.47 U
Aroclor 1232	UG/L	0.47 U	0.48 U	0.50 U	0.49 U	0.47 U
Aroclor 1242	UG/L	0.47 U	0.48 U	0.50 U	0.49 U	0.47 U
Aroclor 1248	UG/L	0.47 U	0.48 U	0.50 U	0.49 U	0.47 U
Aroclor 1254	UG/L	0.47 U	0.48 U	0.50 U	0.49 U	0.47 U
Aroclor 1260	UG/L	0.47 U	0.48 U	0.50 U	0.49 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.7 U	1.7 U	1.9 U	2.1 U	1.3 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	167,000	160,000	49,500	81,300	613,000
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	498
Magnesium	UG/L	28,000	9,650	10,100	13,800	94,800
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	1,910	1,670	1,960	3,300	21,500
Sodium	UG/L	54,300	16,500	24,200	24,500	337,000 J
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	138	105	102	110	181
Alkalinity, Total (as CaCO3)	MG/L	138	105	102	110	181
Chloride	MG/L	58.3	35.1 J	40.8	41.4	506
Hardness	MG/L	526	400	158	238	2,290
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Sample ID		GW03-016B-P5	GW03-016B-P6	GW03-016C-P7	GW03-016C-P8	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	03/09/04	03/04/04	03/04/04	02/24/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	517	408 J	54.5	115	1,690
Total Dissolved Solids	MG/L	827	626	258	337	3,240
Total Organic Carbon (TOC)	MG/L	1.0 U	1.3	1.9	2.0	1.5
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	9.0	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	650	68	680	66	41000
Total Coliform	C/100 ML	20 U	30	400	20	20 U
E Coli	POS/NEG	NEG	POS	POS	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	02/24/04	02/24/04	02/26/04	02/24/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	4.0 U	1.8 J	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	4.0 U	4.0 UJ	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-chloropropane	UG/L	4.0 U	R	1.0 U	1.0 U	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	160 D	160 D	5.8	3.1	0.68 J
1,2-Dichloroethene (trans)	UG/L	13	3.8 J	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	20 UJ	20 U	5.0 U	5.0 UJ	5.0 U
4-Methyl-2-Pentanone	UG/L	20 UJ	20 U	5.0 U	5.0 UJ	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	10	4.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	02/24/04	02/24/04	02/26/04	02/24/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	4.0 UJ	4.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	4.0 U	4.0 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	4.0 UJ	4.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	4.0 UJ	4.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	20 U	5.0 U	R	5.0 U
Methyl tert-butyl ether	UG/L	4.0 UJ	4.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	4.0 U	2.4 J	0.79 J	0.59 J	0.25 J
Toluene	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	12 U	12 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	3.4 J	180 D	5.3	1.3	0.57 J

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	02/24/04	02/24/04	02/26/04	02/24/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	4.0 U	4.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	340 D	3.4 J	1.0 U	0.66 J	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	48 U	48 UJ	52 UJ	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	48 U	48 U	52 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	21 U	19 U
3-Nitroaniline	UG/L	48 U	48 U	48 U	52 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	48 U	48 U	52 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	02/24/04	02/24/04	02/26/04	02/24/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	48 U	48 U	52 U	48 U
4-Nitrophenol	UG/L	48 U	48 U	48 U	52 U	48 U
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	10 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	10 U	10 U	10 U
Benzaldehyde	UG/L	48 U	48 U	48 U	52 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	10 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	10 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	10 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	02/24/04	02/24/04	02/26/04	02/24/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	23 U	24 U	23 U
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	10 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	10 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	48 U	48 U	52 U	48 U
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	10 U
Phenol	UG/L	10 U	10 U	10 U	10 U	10 U
Pyrene	UG/L	10 U	10 U	10 U	10 U	10 U

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	02/24/04	02/24/04	02/26/04	02/24/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.043 J	0.036 J	0.042 J	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.070 U	0.070 U	0.070 U	0.070 U	0.069 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.48 U	0.48 U	0.47 U	0.47 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	02/24/04	02/24/04	02/26/04	02/24/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.48 U	0.48 U	0.47 U	0.47 U
Aroclor 1232	UG/L	0.48 U	0.48 U	0.48 U	0.47 U	0.47 U
Aroclor 1242	UG/L	0.48 U	0.48 U	0.48 U	0.47 U	0.47 U
Aroclor 1248	UG/L	0.48 U	0.48 U	0.48 U	0.47 U	0.47 U
Aroclor 1254	UG/L	0.48 U	0.48 U	0.48 U	0.47 U	0.47 U
Aroclor 1260	UG/L	0.48 U	0.48 U	0.48 U	0.47 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.7 U	1.1 U	1.2 U	1.5 U	1.1 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	629,000	74,700	59,900	49,000	46,500
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	66,600	12,000	12,200	10,400	11,700
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	23,900	13,800	2,110	1,760	8,130
Sodium	UG/L	250,000	32,600	25,900	22,200	19,500
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	133	49.6	102	104	87.6
Alkalinity, Total (as CaCO3)	MG/L	133	51.8	102	104	88.7
Chloride	MG/L	404	43.8	47.0	39.2	29.5
Hardness	MG/L	1,720	274	276	200	194
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017A-P2	GW03-017B-P4	GW03-017B-P5	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	02/24/04	02/24/04	02/26/04	02/24/04
Parameter	**Units**					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	1,520	121	86.2	58.8	71.6
Total Dissolved Solids	MG/L	3,000	330	272	245	224
Total Organic Carbon (TOC)	MG/L	1.4	1.9	1.9	1.3	1.8
Total Suspended Solids	MG/L	4.0 U	4.0 U	4.0 U	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	9 J	49	78	9 J	160
Total Coliform	C/100 ML	20 U	40	20 U	40	20 U
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NEG

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		02/24/04	02/26/04
Parameter	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	2.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	2.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	2.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	2.0 U	1.0 U
1,1-Dichloroethane	UG/L	2.0 U	1.0 U
1,1-Dichloroethene	UG/L	0.81 J	1.0 U
1,2,4-Trichlorobenzene	UG/L	2.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	2.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	2.0 U	1.0 U
1,2-Dichloroethane	UG/L	2.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	91 D	1.0 U
1,2-Dichloroethene (trans)	UG/L	2.4	1.0 U
1,2-Dichloropropane	UG/L	2.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	2.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	2.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	2.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	2.0 U	1.0 U
2-Hexanone	UG/L	10 U	5.0 UJ
4-Methyl-2-Pentanone	UG/L	10 U	5.0 UJ
Acetone	UG/L	R	R
Benzene	UG/L	2.0 U	1.0 U
Bromodichloromethane	UG/L	2.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		02/24/04	02/26/04
Parameter	Units		
Volatile Organic Compounds			
Bromoform	UG/L	2.0 U	1.0 U
Bromomethane	UG/L	2.0 UJ	1.0 U
Carbon Disulfide	UG/L	2.0 U	0.97 J
Carbon Tetrachloride	UG/L	2.0 U	1.0 U
Chlorobenzene	UG/L	2.0 U	1.0 U
Chloroethane	UG/L	2.0 U	1.0 U
Chloroform	UG/L	2.0 U	1.0 U
Chloromethane	UG/L	2.0 U	1.0 U
Cyclohexane	UG/L	2.0 U	1.0 UJ
Dibromochloromethane	UG/L	2.0 U	1.0 U
Dichlorodifluoromethane	UG/L	2.0 U	1.0 U
Ethylbenzene	UG/L	2.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	2.0 U	1.0 U
Methyl acetate	UG/L	2.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	10 U	R
Methyl tert-butyl ether	UG/L	2.0 U	1.0 U
Methylcyclohexane	UG/L	2.0 U	0.47 J
Methylene Chloride	UG/L	2.0 U	1.0 U
Styrene	UG/L	2.0 U	1.0 U
Tetrachloroethene	UG/L	7.4	1.0 U
Toluene	UG/L	2.0 U	0.40 J
Total Xylenes	UG/L	6.0 U	3.0 U
Trichloroethene	UG/L	87 D	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		02/24/04	02/26/04
Parameter	Units		
Volatile Organic Compounds			
Trichlorofluoromethane	UG/L	2.0 U	1.0 U
Vinyl Chloride	UG/L	1.6 J	1.0 U
Semivolatile Organic Compounds			
1,1-Biphenyl	UG/L	9 U	10 U
2,4,5-Trichlorophenol	UG/L	9 U	10 U
2,4,6-Trichlorophenol	UG/L	9 U	10 U
2,4-Dichlorophenol	UG/L	9 U	10 U
2,4-Dimethylphenol	UG/L	9 U	10 U
2,4-Dinitrophenol	UG/L	47 UJ	48 UJ
2,4-Dinitrotoluene	UG/L	9 U	10 U
2,6-Dinitrotoluene	UG/L	9 U	10 U
2-Chloronaphthalene	UG/L	9 U	10 U
2-Chlorophenol	UG/L	9 U	10 U
2-Methylnaphthalene	UG/L	9 U	10 U
2-Methylphenol (o-cresol)	UG/L	9 U	10 U
2-Nitroaniline	UG/L	47 U	48 U
2-Nitrophenol	UG/L	9 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U
3-Nitroaniline	UG/L	47 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	47 U	48 U
4-Bromophenyl-phenylether	UG/L	9 U	10 U
4-Chloro-3-methylphenol	UG/L	9 U	10 U
4-Chloroaniline	UG/L	9 U	10 U

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		02/24/04	02/26/04
Parameter	Units		
Semivolatile Organic Compounds			
4-Chlorophenyl-phenylether	UG/L	9 U	10 U
4-Methylphenol (p-cresol)	UG/L	9 U	10 U
4-Nitroaniline	UG/L	47 U	48 U
4-Nitrophenol	UG/L	47 U	48 U
Acenaphthene	UG/L	9 U	10 U
Acenaphthylene	UG/L	9 U	10 U
Acetophenone	UG/L	9 U	10 U
Anthracene	UG/L	9 U	10 U
Atrazine	UG/L	9 U	10 U
Benzaldehyde	UG/L	47 U	48 U
Benzo(a)anthracene	UG/L	9 U	10 U
Benzo(a)pyrene	UG/L	9 U	10 U
Benzo(b)fluoranthene	UG/L	9 U	10 U
Benzo(g,h,i)perylene	UG/L	9 U	10 U
Benzo(k)fluoranthene	UG/L	9 U	10 U
bis(2-Chloroethoxy)methane	UG/L	9 U	10 U
bis(2-Chloroethyl)ether	UG/L	9 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	9 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	9 U	10 U
Butylbenzylphthalate	UG/L	9 U	10 U
Caprolactam	UG/L	9 U	10
Carbazole	UG/L	9 U	10 U
Chrysene	UG/L	9 U	10 U

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		02/24/04	02/26/04
Parameter	Units		
Semivolatile Organic Compounds			
Dibenz(a,h)anthracene	UG/L	9 U	10 U
Dibenzofuran	UG/L	9 U	10 U
Diethylphthalate	UG/L	9 U	10 U
Dimethylphthalate	UG/L	9 U	10 U
Di-n-butylphthalate	UG/L	9 U	10 U
Di-n-octylphthalate	UG/L	9 U	10 U
Fluoranthene	UG/L	9 U	10 U
Fluorene	UG/L	9 U	10 U
Hexachlorobenzene	UG/L	9 U	10 U
Hexachlorobutadiene	UG/L	9 U	10 U
Hexachlorocyclopentadiene	UG/L	22 U	23 U
Hexachloroethane	UG/L	9 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	9 U	10 U
Isophorone	UG/L	9 U	10 U
Naphthalene	UG/L	9 U	10 U
Nitrobenzene	UG/L	9 U	10 U
N-Nitroso-di-n-propylamine	UG/L	9 U	10 U
N-Nitrosodiphenylamine	UG/L	9 U	10 U
Pentachlorophenol	UG/L	47 U	48 U
Phenanthrene	UG/L	9 U	10 U
Phenol	UG/L	9 U	2 J
Pyrene	UG/L	9 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		02/24/04	02/26/04
Parameter	**Units**		
Pesticides			
4,4-DDD	UG/L	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U
beta-BHC	UG/L	0.034 J	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U
Endrin ketone	UG/L	0.070 U	0.068 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U
Polychlorinated Biphenyls			
Aroclor 1016	UG/L	0.48 U	0.50 U

Flags assigned during chemistry validation are shown.

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		02/24/04	02/26/04
Parameter	**Units**		
Polychlorinated Biphenyls			
Aroclor 1221	UG/L	0.48 U	0.50 U
Aroclor 1232	UG/L	0.48 U	0.50 U
Aroclor 1242	UG/L	0.48 U	0.50 U
Aroclor 1248	UG/L	0.48 U	0.50 U
Aroclor 1254	UG/L	0.48 U	0.50 U
Aroclor 1260	UG/L	0.48 U	0.50 U
Dioxins & Furans			
2,3,7,8-TCDD	PG/L	1.4 U	1.2 U
Metals			
Arsenic	UG/L	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.5
Calcium	UG/L	58,600	654,000
Lead	UG/L	6.0 U	19.5
Magnesium	UG/L	13,000	147,000
Mercury	UG/L	0.200 U	0.200 U
Potassium	UG/L	5,940	12,000
Sodium	UG/L	20,800	327,000
Miscellaneous Parameters			
Alkalinity, Bicarbonate (as CaCO3)	MG/L	92.1	297
Alkalinity, Total (as CaCO3)	MG/L	97.4	297
Chloride	MG/L	32.6	736
Hardness	MG/L	280	2,020
Monomethyl Mercury	NG/L	NA	NA

Flags assigned during chemistry validation are shown.

Made By__JJL 5/26/04_
Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-017C-P8	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P9
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		02/24/04	02/26/04
Parameter	**Units**		
Miscellaneous Parameters			
Sulfate (as SO4)	MG/L	69.1	1,640
Total Dissolved Solids	MG/L	229	3,590
Total Organic Carbon (TOC)	MG/L	1.4	1.5
Total Suspended Solids	MG/L	6.0	8.7
Bacterial and Microbial Parameters			
Heterotrophic Plate Count	CFU/ML	60	4700
Total Coliform	C/100 ML	20 U	200
E Coli	POS/NEG	NEG	POS

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022404	TBC2-022404	TB-A2-022504	TBA1-022604	TB-A2-022604
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	02/24/04	02/25/04	02/26/04	02/26/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	R	1.0 U	1.0 U	1.0 U	R
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022404	TBC2-022404	TB-A2-022504	TBA1-022604	TB-A2-022604
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	02/24/04	02/25/04	02/26/04	02/26/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	R	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	0.67 J	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022404	TBC2-022404	TB-A2-022504	TBA1-022604	TB-A2-022604
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	02/24/04	02/25/04	02/26/04	02/26/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022404	TBC2-022404	TB-A2-022504	TBA1-022604	TB-A2-022604
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	02/24/04	02/25/04	02/26/04	02/26/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022404	TBC2-022404	TB-A2-022504	TBA1-022604	TB-A2-022604
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	02/24/04	02/25/04	02/26/04	02/26/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022404	TBC2-022404	TB-A2-022504	TBA1-022604	TB-A2-022604
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	02/24/04	02/25/04	02/26/04	02/26/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022404	TBC2-022404	TB-A2-022504	TBA1-022604	TB-A2-022604
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	02/24/04	02/25/04	02/26/04	02/26/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022404	TBC2-022404	TB-A2-022504	TBA1-022604	TB-A2-022604
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	02/24/04	02/25/04	02/26/04	02/26/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022604	TBC2-022604	TBD-1-2-26-04	EB1-BAILER BLANK	TBA1-022704
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/26/04	02/26/04	02/27/04	02/27/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Rinse Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	R	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 U	5.0 UJ	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022604	TBC2-022604	TBD-1-2-26-04	EB1-BAILER BLANK	TBA1-022704
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/26/04	02/26/04	02/27/04	02/27/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Rinse Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	0.44 J	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022604	TBC2-022604	TBD-1-2-26-04	EB1-BAILER BLANK	TBA1-022704
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/26/04	02/26/04	02/27/04	02/27/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Rinse Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	10 U	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	48 UJ	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	10 U	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	10 U	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	10 U	NA
2-Chlorophenol	UG/L	NA	NA	NA	10 U	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	10 U	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	10 U	NA
2-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
2-Nitrophenol	UG/L	NA	NA	NA	10 U	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	19 U	NA
3-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	48 U	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	10 U	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	10 U	NA
4-Chloroaniline	UG/L	NA	NA	NA	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022604	TBC2-022604	TBD-1-2-26-04	EB1-BAILER BLANK	TBA1-022704
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/26/04	02/26/04	02/27/04	02/27/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Rinse Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	10 U	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	10 U	NA
4-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
4-Nitrophenol	UG/L	NA	NA	NA	48 U	NA
Acenaphthene	UG/L	NA	NA	NA	10 U	NA
Acenaphthylene	UG/L	NA	NA	NA	10 U	NA
Acetophenone	UG/L	NA	NA	NA	10 U	NA
Anthracene	UG/L	NA	NA	NA	10 U	NA
Atrazine	UG/L	NA	NA	NA	10 U	NA
Benzaldehyde	UG/L	NA	NA	NA	48 U	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	10 U	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	10 U	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	10 U	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	10 U	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	10 U	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	10 U	NA
Caprolactam	UG/L	NA	NA	NA	10 U	NA
Carbazole	UG/L	NA	NA	NA	10 U	NA
Chrysene	UG/L	NA	NA	NA	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022604	TBC2-022604	TBD-1-2-26-04	EB1-BAILER BLANK	TBA1-022704
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/26/04	02/26/04	02/27/04	02/27/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Rinse Blank (1-1)	Trip Blank (2-2)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	10 U	NA
Dibenzofuran	UG/L	NA	NA	NA	10 U	NA
Diethylphthalate	UG/L	NA	NA	NA	10 U	NA
Dimethylphthalate	UG/L	NA	NA	NA	10 U	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	10 U	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	10 U	NA
Fluoranthene	UG/L	NA	NA	NA	10 U	NA
Fluorene	UG/L	NA	NA	NA	10 U	NA
Hexachlorobenzene	UG/L	NA	NA	NA	10 U	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	10 U	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	23 U	NA
Hexachloroethane	UG/L	NA	NA	NA	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	10 U	NA
Isophorone	UG/L	NA	NA	NA	10 U	NA
Naphthalene	UG/L	NA	NA	NA	10 U	NA
Nitrobenzene	UG/L	NA	NA	NA	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	10 U	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	10 U	NA
Pentachlorophenol	UG/L	NA	NA	NA	48 U	NA
Phenanthrene	UG/L	NA	NA	NA	10 U	NA
Phenol	UG/L	NA	NA	NA	10 U	NA
Pyrene	UG/L	NA	NA	NA	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022604	TBC2-022604	TBD-1-2-26-04	EB1-BAILER BLANK	TBA1-022704
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/26/04	02/26/04	02/27/04	02/27/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Rinse Blank (1-1)	Trip Blank (2-2)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	0.050 U	NA
4,4-DDE	UG/L	NA	NA	NA	0.050 U	NA
4,4-DDT	UG/L	NA	NA	NA	0.050 U	NA
Aldrin	UG/L	NA	NA	NA	0.050 U	NA
alpha-BHC	UG/L	NA	NA	NA	0.050 U	NA
alpha-Chlordane	UG/L	NA	NA	NA	0.050 U	NA
beta-BHC	UG/L	NA	NA	NA	0.050 U	NA
delta-BHC	UG/L	NA	NA	NA	0.050 U	NA
Dieldrin	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan I	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan II	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan sulfate	UG/L	NA	NA	NA	0.050 U	NA
Endrin	UG/L	NA	NA	NA	0.050 U	NA
Endrin aldehyde	UG/L	NA	NA	NA	0.050 U	NA
Endrin ketone	UG/L	NA	NA	NA	0.070 U	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	0.050 U	NA
gamma-Chlordane	UG/L	NA	NA	NA	0.050 U	NA
Heptachlor	UG/L	NA	NA	NA	0.050 U	NA
Heptachlor epoxide	UG/L	NA	NA	NA	0.050 U	NA
Methoxychlor	UG/L	NA	NA	NA	0.050 U	NA
Toxaphene	UG/L	NA	NA	NA	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	0.47 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022604	TBC2-022604	TBD-1-2-26-04	EB1-BAILER BLANK	TBA1-022704
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/26/04	02/26/04	02/27/04	02/27/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Rinse Blank (1-1)	Trip Blank (2-2)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	0.47 U	NA
Aroclor 1232	UG/L	NA	NA	NA	0.47 U	NA
Aroclor 1242	UG/L	NA	NA	NA	0.47 U	NA
Aroclor 1248	UG/L	NA	NA	NA	0.47 U	NA
Aroclor 1254	UG/L	NA	NA	NA	0.47 U	NA
Aroclor 1260	UG/L	NA	NA	NA	0.47 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	1.1 U	NA
Metals						
Arsenic	UG/L	NA	NA	NA	10.0 U	NA
Cadmium	UG/L	NA	NA	NA	1.0 U	NA
Calcium	UG/L	NA	NA	NA	500 U	NA
Lead	UG/L	NA	NA	NA	6.0 U	NA
Magnesium	UG/L	NA	NA	NA	200 U	NA
Mercury	UG/L	NA	NA	NA	0.200 U	NA
Potassium	UG/L	NA	NA	NA	500 U	NA
Sodium	UG/L	NA	NA	NA	1,000 U	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	5.0 U	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	5.0 U	NA
Chloride	MG/L	NA	NA	NA	12.7	NA
Hardness	MG/L	NA	NA	NA	2.0 U	NA
Monomethyl Mercury	NG/L	NA	NA	NA	0.14 U	NA

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC1-022604	TBC2-022604	TBD-1-2-26-04	EB1-BAILER BLANK	TBA1-022704
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/26/04	02/26/04	02/27/04	02/27/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (4-4)	Trip Blank (5-5)	Rinse Blank (1-1)	Trip Blank (2-2)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	15.5	NA
Total Dissolved Solids	MG/L	NA	NA	NA	108	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	1.0 U	NA
Total Suspended Solids	MG/L	NA	NA	NA	4.0 U	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	93	NA
Total Coliform	C/100 ML	NA	NA	NA	20 U	NA
E Coli	POS/NEG	NA	NA	NA	NEG	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-022704	TBC1-022704	TBD1-022704	TBA1-030104	TBA2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/27/04	02/27/04	03/01/04	03/01/04
Parameter	Units	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ
Acetone	UG/L	R	R	R	R	5.0 UJ
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-022704	TBC1-022704	TBD1-022704	TBA1-030104	TBA2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/27/04	02/27/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-022704	TBC1-022704	TBD1-022704	TBA1-030104	TBA2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/27/04	02/27/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-022704	TBC1-022704	TBD1-022704	TBA1-030104	TBA2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/27/04	02/27/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-022704	TBC1-022704	TBD1-022704	TBA1-030104	TBA2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/27/04	02/27/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-022704	TBC1-022704	TBD1-022704	TBA1-030104	TBA2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/27/04	02/27/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (1-1)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-022704	TBC1-022704	TBD1-022704	TBA1-030104	TBA2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/27/04	02/27/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (1-1)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-022704	TBC1-022704	TBD1-022704	TBA1-030104	TBA2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	02/27/04	02/27/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (1-1)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030104	TBC1-030104	TBC2-030104	TBD1-030104	TBD2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/01/04	03/01/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 UJ
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
4-Methyl-2-Pentanone	UG/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Acetone	UG/L	5.0 UJ	R	5.0 UJ	R	5.0 UJ
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030104	TBC1-030104	TBC2-030104	TBD1-030104	TBD2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	R	R
Methyl tert-butyl ether	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030104	TBC1-030104	TBC2-030104	TBD1-030104	TBD2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030104	TBC1-030104	TBC2-030104	TBD1-030104	TBD2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030104	TBC1-030104	TBC2-030104	TBD1-030104	TBD2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030104	TBC1-030104	TBC2-030104	TBD1-030104	TBD2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030104	TBC1-030104	TBC2-030104	TBD1-030104	TBD2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/01/04	03/01/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030104	TBC1-030104	TBC2-030104	TBD1-030104	TBD2-030104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	03/01/04	03/01/04	03/01/04	03/01/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030204	TBA2-030204	TBB1-030204	TBA1-030304	TBA2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/03/04	03/03/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (5-5)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030204	TBA2-030204	TBB1-030204	TBA1-030304	TBA2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/03/04	03/03/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (5-5)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030204	TBA2-030204	TBB1-030204	TBA1-030304	TBA2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/03/04	03/03/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (5-5)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030204	TBA2-030204	TBB1-030204	TBA1-030304	TBA2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/03/04	03/03/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (5-5)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030204	TBA2-030204	TBB1-030204	TBA1-030304	TBA2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/03/04	03/03/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (5-5)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030204	TBA2-030204	TBB1-030204	TBA1-030304	TBA2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/03/04	03/03/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (5-5)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030204	TBA2-030204	TBB1-030204	TBA1-030304	TBA2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/03/04	03/03/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (5-5)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030204	TBA2-030204	TBB1-030204	TBA1-030304	TBA2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	03/02/04	03/02/04	03/03/04	03/03/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (5-5)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB-1-030304	TBC1-030304	TBC-2-030304	TBD-1-030304	TBD-2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	03/03/04	03/03/04	03/03/04	03/03/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (7-7)	Trip Blank (4-4)	Trip Blank (6-6)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB-1-030304	TBC1-030304	TBC-2-030304	TBD-1-030304	TBD-2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	03/03/04	03/03/04	03/03/04	03/03/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (7-7)	Trip Blank (4-4)	Trip Blank (6-6)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB-1-030304	TBC1-030304	TBC-2-030304	TBD-1-030304	TBD-2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	03/03/04	03/03/04	03/03/04	03/03/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (7-7)	Trip Blank (4-4)	Trip Blank (6-6)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB-1-030304	TBC1-030304	TBC-2-030304	TBD-1-030304	TBD-2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	03/03/04	03/03/04	03/03/04	03/03/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (7-7)	Trip Blank (4-4)	Trip Blank (6-6)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB-1-030304	TBC1-030304	TBC-2-030304	TBD-1-030304	TBD-2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	03/03/04	03/03/04	03/03/04	03/03/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (7-7)	Trip Blank (4-4)	Trip Blank (6-6)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB-1-030304	TBC1-030304	TBC-2-030304	TBD-1-030304	TBD-2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	03/03/04	03/03/04	03/03/04	03/03/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (7-7)	Trip Blank (4-4)	Trip Blank (6-6)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB-1-030304	TBC1-030304	TBC-2-030304	TBD-1-030304	TBD-2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	03/03/04	03/03/04	03/03/04	03/03/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (7-7)	Trip Blank (4-4)	Trip Blank (6-6)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB-1-030304	TBC1-030304	TBC-2-030304	TBD-1-030304	TBD-2-030304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	03/03/04	03/03/04	03/03/04	03/03/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (2-2)	Trip Blank (7-7)	Trip Blank (4-4)	Trip Blank (6-6)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030404	TBB-1-030404	TBB2-030404	TBC1-030404	TBC2-030404
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/04/04	03/04/04	03/04/04	03/04/04
Parameter	Units	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (6-6)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	0.26 J	1.0 U	0.28 J
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030404	TBB-1-030404	TBB2-030404	TBC1-030404	TBC2-030404
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/04/04	03/04/04	03/04/04	03/04/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (6-6)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030404	TBB-1-030404	TBB2-030404	TBC1-030404	TBC2-030404
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/04/04	03/04/04	03/04/04	03/04/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (6-6)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030404	TBB-1-030404	TBB2-030404	TBC1-030404	TBC2-030404
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/04/04	03/04/04	03/04/04	03/04/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (6-6)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030404	TBB-1-030404	TBB2-030404	TBC1-030404	TBC2-030404
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/04/04	03/04/04	03/04/04	03/04/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (6-6)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030404	TBB-1-030404	TBB2-030404	TBC1-030404	TBC2-030404
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/04/04	03/04/04	03/04/04	03/04/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (6-6)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030404	TBB-1-030404	TBB2-030404	TBC1-030404	TBC2-030404
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/04/04	03/04/04	03/04/04	03/04/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (6-6)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBA1-030404	TBB-1-030404	TBB2-030404	TBC1-030404	TBC2-030404
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/04/04	03/04/04	03/04/04	03/04/04
Parameter	**Units**	Trip Blank (4-4)	Trip Blank (1-1)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (6-6)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030404	TBA1-030504	TBB1-030504	TBD1-030504	TBA1-030804
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/05/04	03/05/04	03/05/04	03/08/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	5.0 U	5.0 U	5.0 U	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030404	TBA1-030504	TBB1-030504	TBD1-030504	TBA1-030804
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/05/04	03/05/04	03/05/04	03/08/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030404	TBA1-030504	TBB1-030504	TBD1-030504	TBA1-030804
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/05/04	03/05/04	03/05/04	03/08/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030404	TBA1-030504	TBB1-030504	TBD1-030504	TBA1-030804
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/05/04	03/05/04	03/05/04	03/08/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030404	TBA1-030504	TBB1-030504	TBD1-030504	TBA1-030804
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/05/04	03/05/04	03/05/04	03/08/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030404	TBA1-030504	TBB1-030504	TBD1-030504	TBA1-030804
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/05/04	03/05/04	03/05/04	03/08/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030404	TBA1-030504	TBB1-030504	TBD1-030504	TBA1-030804
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/05/04	03/05/04	03/05/04	03/08/04
Parameter	Units	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA	NA
Metals						
Arsenic	UG/L	NA	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030404	TBA1-030504	TBB1-030504	TBD1-030504	TBA1-030804
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	03/05/04	03/05/04	03/05/04	03/08/04
Parameter	**Units**	Trip Blank (3-3)	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (3-3)	Trip Blank (4-4)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030804	TBC1-030804	TBD1-030804	RB-TUBING	TBA1-030904
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/08/04	03/08/04	03/09/04	03/09/04
Parameter	Units	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (3-3)	Rinse Blank (1-1)	Trip Blank (7-7)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030804	TBC1-030804	TBD1-030804	RB-TUBING	TBA1-030904
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/08/04	03/08/04	03/09/04	03/09/04
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (3-3)	Rinse Blank (1-1)	Trip Blank (7-7)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	R	R	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030804	TBC1-030804	TBD1-030804	RB-TUBING	TBA1-030904
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/08/04	03/08/04	03/09/04	03/09/04
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (3-3)	Rinse Blank (1-1)	Trip Blank (7-7)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	NA	NA	NA	10 U	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	10 U	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	48 U	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	10 U	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	10 U	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	10 U	NA
2-Chlorophenol	UG/L	NA	NA	NA	10 U	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	10 U	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	10 U	NA
2-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
2-Nitrophenol	UG/L	NA	NA	NA	10 U	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	19 U	NA
3-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	48 U	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	10 U	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	10 U	NA
4-Chloroaniline	UG/L	NA	NA	NA	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030804	TBC1-030804	TBD1-030804	RB-TUBING	TBA1-030904
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/08/04	03/08/04	03/09/04	03/09/04
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (3-3)	Rinse Blank (1-1)	Trip Blank (7-7)
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	10 U	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	10 U	NA
4-Nitroaniline	UG/L	NA	NA	NA	48 U	NA
4-Nitrophenol	UG/L	NA	NA	NA	48 U	NA
Acenaphthene	UG/L	NA	NA	NA	10 U	NA
Acenaphthylene	UG/L	NA	NA	NA	10 U	NA
Acetophenone	UG/L	NA	NA	NA	10 U	NA
Anthracene	UG/L	NA	NA	NA	10 U	NA
Atrazine	UG/L	NA	NA	NA	10 U	NA
Benzaldehyde	UG/L	NA	NA	NA	48 U	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	10 U	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	10 U	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	10 U	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	10 U	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	10 U	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	10 U	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	10 U	NA
Caprolactam	UG/L	NA	NA	NA	10 U	NA
Carbazole	UG/L	NA	NA	NA	10 U	NA
Chrysene	UG/L	NA	NA	NA	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030804	TBC1-030804	TBD1-030804	RB-TUBING	TBA1-030904
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/08/04	03/08/04	03/09/04	03/09/04
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (3-3)	Rinse Blank (1-1)	Trip Blank (7-7)
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	10 U	NA
Dibenzofuran	UG/L	NA	NA	NA	10 U	NA
Diethylphthalate	UG/L	NA	NA	NA	10 U	NA
Dimethylphthalate	UG/L	NA	NA	NA	10 U	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	10 U	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	10 U	NA
Fluoranthene	UG/L	NA	NA	NA	10 U	NA
Fluorene	UG/L	NA	NA	NA	10 U	NA
Hexachlorobenzene	UG/L	NA	NA	NA	10 U	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	10 U	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	23 U	NA
Hexachloroethane	UG/L	NA	NA	NA	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	10 U	NA
Isophorone	UG/L	NA	NA	NA	10 U	NA
Naphthalene	UG/L	NA	NA	NA	10 U	NA
Nitrobenzene	UG/L	NA	NA	NA	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	10 U	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	10 U	NA
Pentachlorophenol	UG/L	NA	NA	NA	48 U	NA
Phenanthrene	UG/L	NA	NA	NA	10 U	NA
Phenol	UG/L	NA	NA	NA	10 U	NA
Pyrene	UG/L	NA	NA	NA	10 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030804	TBC1-030804	TBD1-030804	RB-TUBING	TBA1-030904
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/08/04	03/08/04	03/09/04	03/09/04
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (3-3)	Rinse Blank (1-1)	Trip Blank (7-7)
Pesticides						
4,4-DDD	UG/L	NA	NA	NA	0.050 U	NA
4,4-DDE	UG/L	NA	NA	NA	0.050 U	NA
4,4-DDT	UG/L	NA	NA	NA	0.050 U	NA
Aldrin	UG/L	NA	NA	NA	0.050 U	NA
alpha-BHC	UG/L	NA	NA	NA	0.050 U	NA
alpha-Chlordane	UG/L	NA	NA	NA	0.050 U	NA
beta-BHC	UG/L	NA	NA	NA	0.050 U	NA
delta-BHC	UG/L	NA	NA	NA	0.050 U	NA
Dieldrin	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan I	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan II	UG/L	NA	NA	NA	0.050 U	NA
Endosulfan sulfate	UG/L	NA	NA	NA	0.050 U	NA
Endrin	UG/L	NA	NA	NA	0.050 U	NA
Endrin aldehyde	UG/L	NA	NA	NA	0.050 U	NA
Endrin ketone	UG/L	NA	NA	NA	0.069 U	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	0.050 U	NA
gamma-Chlordane	UG/L	NA	NA	NA	0.050 U	NA
Heptachlor	UG/L	NA	NA	NA	0.050 U	NA
Heptachlor epoxide	UG/L	NA	NA	NA	0.050 U	NA
Methoxychlor	UG/L	NA	NA	NA	0.050 U	NA
Toxaphene	UG/L	NA	NA	NA	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	NA	NA	NA	0.49 U	NA

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030804	TBC1-030804	TBD1-030804	RB-TUBING	TBA1-030904
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/08/04	03/08/04	03/09/04	03/09/04
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (3-3)	Rinse Blank (1-1)	Trip Blank (7-7)
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1232	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1242	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1248	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1254	UG/L	NA	NA	NA	0.49 U	NA
Aroclor 1260	UG/L	NA	NA	NA	0.49 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	NA	NA	NA	4.2 U	NA
Metals						
Arsenic	UG/L	NA	NA	NA	10.0 U	NA
Cadmium	UG/L	NA	NA	NA	1.0 U	NA
Calcium	UG/L	NA	NA	NA	500 U	NA
Lead	UG/L	NA	NA	NA	6.0 U	NA
Magnesium	UG/L	NA	NA	NA	200 U	NA
Mercury	UG/L	NA	NA	NA	0.200 U	NA
Potassium	UG/L	NA	NA	NA	500 U	NA
Sodium	UG/L	NA	NA	NA	1,000 U	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	96.6	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	96.6	NA
Chloride	MG/L	NA	NA	NA	0.50 U	NA
Hardness	MG/L	NA	NA	NA	2.0 U	NA
Monomethyl Mercury	NG/L	NA	NA	NA	0.14 U	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBB1-030804	TBC1-030804	TBD1-030804	RB-TUBING	TBA1-030904
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/08/04	03/08/04	03/09/04	03/09/04
Parameter	**Units**	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (3-3)	Rinse Blank (1-1)	Trip Blank (7-7)
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	NA	NA	NA	2.0 U	NA
Total Dissolved Solids	MG/L	NA	NA	NA	10 U	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	1.0 U	NA
Total Suspended Solids	MG/L	NA	NA	NA	4.0 U	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	58	NA
Total Coliform	C/100 ML	NA	NA	NA	20 U	NA
E Coli	POS/NEG	NA	NA	NA	NEG	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030904	TBD2-030904	TBA1-031004	TBC1-031104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	03/09/04	03/10/04	03/11/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	7.1 J	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030904	TBD2-030904	TBA1-031004	TBC1-031104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	03/09/04	03/10/04	03/11/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	R	5.0 U	5.0 U	R
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030904	TBD2-030904	TBA1-031004	TBC1-031104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	03/09/04	03/10/04	03/11/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (1-1)
Volatile Organic Compounds					
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds					
1,1-Biphenyl	UG/L	NA	NA	NA	NA
2,4,5-Trichlorophenol	UG/L	NA	NA	NA	NA
2,4,6-Trichlorophenol	UG/L	NA	NA	NA	NA
2,4-Dichlorophenol	UG/L	NA	NA	NA	NA
2,4-Dimethylphenol	UG/L	NA	NA	NA	NA
2,4-Dinitrophenol	UG/L	NA	NA	NA	NA
2,4-Dinitrotoluene	UG/L	NA	NA	NA	NA
2,6-Dinitrotoluene	UG/L	NA	NA	NA	NA
2-Chloronaphthalene	UG/L	NA	NA	NA	NA
2-Chlorophenol	UG/L	NA	NA	NA	NA
2-Methylnaphthalene	UG/L	NA	NA	NA	NA
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA	NA
2-Nitroaniline	UG/L	NA	NA	NA	NA
2-Nitrophenol	UG/L	NA	NA	NA	NA
3,3-Dichlorobenzidine	UG/L	NA	NA	NA	NA
3-Nitroaniline	UG/L	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	UG/L	NA	NA	NA	NA
4-Bromophenyl-phenylether	UG/L	NA	NA	NA	NA
4-Chloro-3-methylphenol	UG/L	NA	NA	NA	NA
4-Chloroaniline	UG/L	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030904	TBD2-030904	TBA1-031004	TBC1-031104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	03/09/04	03/10/04	03/11/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds					
4-Chlorophenyl-phenylether	UG/L	NA	NA	NA	NA
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA	NA
4-Nitroaniline	UG/L	NA	NA	NA	NA
4-Nitrophenol	UG/L	NA	NA	NA	NA
Acenaphthene	UG/L	NA	NA	NA	NA
Acenaphthylene	UG/L	NA	NA	NA	NA
Acetophenone	UG/L	NA	NA	NA	NA
Anthracene	UG/L	NA	NA	NA	NA
Atrazine	UG/L	NA	NA	NA	NA
Benzaldehyde	UG/L	NA	NA	NA	NA
Benzo(a)anthracene	UG/L	NA	NA	NA	NA
Benzo(a)pyrene	UG/L	NA	NA	NA	NA
Benzo(b)fluoranthene	UG/L	NA	NA	NA	NA
Benzo(g,h,i)perylene	UG/L	NA	NA	NA	NA
Benzo(k)fluoranthene	UG/L	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	UG/L	NA	NA	NA	NA
bis(2-Chloroethyl)ether	UG/L	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	UG/L	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA	NA
Butylbenzylphthalate	UG/L	NA	NA	NA	NA
Caprolactam	UG/L	NA	NA	NA	NA
Carbazole	UG/L	NA	NA	NA	NA
Chrysene	UG/L	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030904	TBD2-030904	TBA1-031004	TBC1-031104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	03/09/04	03/10/04	03/11/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (1-1)
Semivolatile Organic Compounds					
Dibenz(a,h)anthracene	UG/L	NA	NA	NA	NA
Dibenzofuran	UG/L	NA	NA	NA	NA
Diethylphthalate	UG/L	NA	NA	NA	NA
Dimethylphthalate	UG/L	NA	NA	NA	NA
Di-n-butylphthalate	UG/L	NA	NA	NA	NA
Di-n-octylphthalate	UG/L	NA	NA	NA	NA
Fluoranthene	UG/L	NA	NA	NA	NA
Fluorene	UG/L	NA	NA	NA	NA
Hexachlorobenzene	UG/L	NA	NA	NA	NA
Hexachlorobutadiene	UG/L	NA	NA	NA	NA
Hexachlorocyclopentadiene	UG/L	NA	NA	NA	NA
Hexachloroethane	UG/L	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	UG/L	NA	NA	NA	NA
Isophorone	UG/L	NA	NA	NA	NA
Naphthalene	UG/L	NA	NA	NA	NA
Nitrobenzene	UG/L	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	UG/L	NA	NA	NA	NA
N-Nitrosodiphenylamine	UG/L	NA	NA	NA	NA
Pentachlorophenol	UG/L	NA	NA	NA	NA
Phenanthrene	UG/L	NA	NA	NA	NA
Phenol	UG/L	NA	NA	NA	NA
Pyrene	UG/L	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030904	TBD2-030904	TBA1-031004	TBC1-031104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	03/09/04	03/10/04	03/11/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (1-1)
Pesticides					
4,4-DDD	UG/L	NA	NA	NA	NA
4,4-DDE	UG/L	NA	NA	NA	NA
4,4-DDT	UG/L	NA	NA	NA	NA
Aldrin	UG/L	NA	NA	NA	NA
alpha-BHC	UG/L	NA	NA	NA	NA
alpha-Chlordane	UG/L	NA	NA	NA	NA
beta-BHC	UG/L	NA	NA	NA	NA
delta-BHC	UG/L	NA	NA	NA	NA
Dieldrin	UG/L	NA	NA	NA	NA
Endosulfan I	UG/L	NA	NA	NA	NA
Endosulfan II	UG/L	NA	NA	NA	NA
Endosulfan sulfate	UG/L	NA	NA	NA	NA
Endrin	UG/L	NA	NA	NA	NA
Endrin aldehyde	UG/L	NA	NA	NA	NA
Endrin ketone	UG/L	NA	NA	NA	NA
gamma-BHC (Lindane)	UG/L	NA	NA	NA	NA
gamma-Chlordane	UG/L	NA	NA	NA	NA
Heptachlor	UG/L	NA	NA	NA	NA
Heptachlor epoxide	UG/L	NA	NA	NA	NA
Methoxychlor	UG/L	NA	NA	NA	NA
Toxaphene	UG/L	NA	NA	NA	NA
Polychlorinated Biphenyls					
Aroclor 1016	UG/L	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By__JJL 5/26/04_
Checked By__AMK 5/27/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030904	TBD2-030904	TBA1-031004	TBC1-031104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	03/09/04	03/10/04	03/11/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (1-1)
Polychlorinated Biphenyls					
Aroclor 1221	UG/L	NA	NA	NA	NA
Aroclor 1232	UG/L	NA	NA	NA	NA
Aroclor 1242	UG/L	NA	NA	NA	NA
Aroclor 1248	UG/L	NA	NA	NA	NA
Aroclor 1254	UG/L	NA	NA	NA	NA
Aroclor 1260	UG/L	NA	NA	NA	NA
Dioxins & Furans					
2,3,7,8-TCDD	PG/L	NA	NA	NA	NA
Metals					
Arsenic	UG/L	NA	NA	NA	NA
Cadmium	UG/L	NA	NA	NA	NA
Calcium	UG/L	NA	NA	NA	NA
Lead	UG/L	NA	NA	NA	NA
Magnesium	UG/L	NA	NA	NA	NA
Mercury	UG/L	NA	NA	NA	NA
Potassium	UG/L	NA	NA	NA	NA
Sodium	UG/L	NA	NA	NA	NA
Miscellaneous Parameters					
Alkalinity, Bicarbonate (as CaCO3)	MG/L	NA	NA	NA	NA
Alkalinity, Total (as CaCO3)	MG/L	NA	NA	NA	NA
Chloride	MG/L	NA	NA	NA	NA
Hardness	MG/L	NA	NA	NA	NA
Monomethyl Mercury	NG/L	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
FEBRUARY-MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBD1-030904	TBD2-030904	TBA1-031004	TBC1-031104
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	03/09/04	03/10/04	03/11/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (6-6)	Trip Blank (1-1)	Trip Blank (1-1)
Miscellaneous Parameters					
Sulfate (as SO4)	MG/L	NA	NA	NA	NA
Total Dissolved Solids	MG/L	NA	NA	NA	NA
Total Organic Carbon (TOC)	MG/L	NA	NA	NA	NA
Total Suspended Solids	MG/L	NA	NA	NA	NA
Bacterial and Microbial Parameters					
Heterotrophic Plate Count	CFU/ML	NA	NA	NA	NA
Total Coliform	C/100 ML	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA

Flags assigned during chemistry validation are shown.

Made By__JJL 5/26/04_
Checked By__AMK 5/27/04_

Detection Limits shown are PQL

Printed: 6/2/2004 8:27:15 AM
[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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ATTACHMENT A
DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT B
DEFINITIONS OF SAMPLE CONCENTRATION UNITS

PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.
POS/NEG	The sample tested positive or negative for this analyte.

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ATTACHMENT C
DOCUMENTATION SUPPORTING THE QUALIFICATION OF DATA

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

LAB STL - Buffalo

COOLER 1, 2, 3 of 3

PAGE 1 of 2

SAMPLERS (PRINT/SIGNATURE) T. Urban, G. Kislak, M. Nemeth, J. Dorr, R. Pekarski, T. Burmeister, D Cofield

DELIVERY SERVICE: SR Courier AIRBILL NO.: NA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC's (40mL VOA)	TOC (40mL VOA HCL)	TCL SVOC's (1L Amber)	TCL Pesticides (1L Amber)	TCL PCBs (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	Metals/ Total Hg (16oz HDPE w/ HNO_3)	TDS/TSS/ Cl-/SO4- (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017C-P7	2/24/04	0930	G	GW03-017C-P7	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-017B P4	2/24/04	1105	G	GW03-017B-P4	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
~~GW03-017B P5~~	~~2/24/04~~		~~G~~	~~GW03-017B-P5~~	~~WG~~	~~18~~	~~3~~	~~2~~	~~2~~	~~2~~	~~1~~	~~2~~	~~1~~	~~1~~	2/24/04	~~N1~~			
GW03-017A-P1	2/24/04	1215	G	GW03-017A-P1	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
Field QC	2/24/04	—	G	TBC1-02404	WQ	1	1	-	-	-	-	-	-	-		TB1	-	-	-

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	2/24/04	1410	STL	2/24/04	14:10
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
Any Questions - contact Jim Lehner @ 1-800-850-9230

3 @ 6.0°c

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

459/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932-00006

SITE NAME NYPA-GW Investigation

LAB STL-Buffalo

COOLER 1, 2, 3 of 3

PAGE 2 of 2

SAMPLERS (PRINT/SIGNATURE)
T. Urban, G. Kisluk, M. Nemeth, J. Doem, R. Pekarski, T. Burmeister
D. Cofield

DELIVERY SERVICE: FL Courier AIRBILL NO.: NA

TESTS: Alkalinity (carb/Bicarb), Total Hardness, Total Coliform E.coli, Het. Plate Count

BOTTLE TYPE AND PRESERVATIVE: 500 HDPE; 40z HDPE HNO3; 4 oz HDPE Na2S2O3; 4 oz HDPE Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	500 HDPE	40z HDPE HNO3	4 oz HDPE Na2S2O3	4 oz HDPE Na2S2O3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017C P7	2/24/04	0950	G	GW03-017C-P7	WG	—	1	1	1	1		N1	—	—	—
GW03-017B P4	2/24/04	1105	G	GW03-017B-P4	WG	—	1	1	1	1		N1	—	—	—
~~GW03-017B P5~~	~~2/24/04~~		~~G~~	~~GW03-017B-P5~~	~~WG~~		~~1~~	~~1~~	~~1~~	~~1~~	~~2/24/04~~	~~N1~~	~~—~~	~~—~~	~~—~~
GW03-017A -P1	2/24/04	1215	G	GW03-017A-P1	WG	—	1	1	1	1		N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	2/24/04	1410	STL	2/24/04	14:10
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

306.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

460/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00004

SITE NAME NIPA - GW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Dost, S. Tinsman, R. Pekowski, D. Cofield, T. Bugnevar, M. Nemeth, G. Kislak, T. Urban

LAB SRL-Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: drop-off AIRBILL NO.: ____

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL pesticides; TCL PCBs; 2,3,7,8 TCDD; metals incl. Hg; TSS, TDS, Cl⁻, SO₄²⁻

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1 L Amber; 1 L Amber; 1 L Amber; 1 L Amber; 16 oz HDPE; 16 oz HDPE HNO₃

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1 L Amber	1 L Amber	1 L Amber	1 L Amber	16 oz HDPE	16 oz HDPE HNO₃	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017C-P8	2/24/04	1500	G	GW03-017C-P8	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
Field QC	2/24/04	-	G	TBC2-022404	WQ	1	1-	+-	-	-	-	-	-	-		TB2	-	-	-
GW03-017B-P5	2/24/04	1500	G	GW03-017B-P5	WG	18	3	2	2	2	1	2	1	1					

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	2/25/04	0625	[signature]		
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	2/25/04	0625

SPECIAL INSTRUCTIONS: Recd one cooler @ 5°C. KEK (Total shipment = 2 coolers)

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

461/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NIPA-GW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban, G. Gulak, A. Pekarski, D. Cofield, J. Deer, S. Tiaken, M. Nemell, T. Bormeier

LAB STL-Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Drop-off AIRBILL NO.: ____

TESTS: Alkalinity, Total + Bicarb; Total Hardness; Total Coliform + E-coli; Het. Plate Ct.

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO_3; 4 oz HDPE $NaHSO_4$; 4 oz HDPE $NaHSO_4$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE $NaHSO_4$	4 oz HDPE $NaHSO_4$				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03 017C-P8	2/24/04	1500	G	GW03 017C - P8	WG	1	1	1	1	1					N1	-	-	-
~~Field QC~~	~~2/24/04~~	~~—~~	~~G~~	~~TBC3-022404~~	~~WQ~~	~~1~~		~~m~~	~~2/24/04~~						~~N~~			
GW03-017C -P5	2/24/04	1500	G	GW03-017C-P5	WG		1	1	1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	2/25/04	0625	[signature]		
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	2/25/04	0625

SPECIAL INSTRUCTIONS: Rec'd one cooler @ 5°C. KEK (TOTAL SHIPMENT = 2 COOLERS)

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

462/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW investigation

SAMPLERS (PRINT/SIGNATURE) J. Doerr S. McCabe, D. CocField, R. Petarsti, G. Kislak T. Urban

DELIVERY SERVICE: STL Courier AIRBILL NO.:

LAB STL Buffalo

COOLER 1,2,3,4 of 1,2,3,4

PAGE 1 of 2

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOCs (40 ml VOA)	TOC (40 ml VOA-HCl)	TCL SVOCs (1 Liter Amber)	TCL PCBs (1 Liter Amber)	TCL Pesticides (1 Liter Amber)	2,3,7,8 TCDD (1 Liter Amber)	Metals incl. Hg (16oz HDPE HNO3)	TSS, TDS, Cl, SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (HRPIMS)
GW-03-013P2	2/25/04	1130	G	GW-03-013-P2	WG	18	3	2	2	1	2	2	1	1		N1			
GW-03-013P2	2/25/04	1130	G	GW-03-013-P2-MS	WG	18	3	2	2	1	2	2	1	1		MS			
GW-03-013P2	2/25/04	1130	G	GW-03-013-P2-MSD	WG	18	3	2	2	1	2	2	1	1		MSD			
Field QC	2/25/04	—	G	TB-A1-022504	WQ	1	1	—	—	—	—	—	—	1		TB1			
GW-03-014B-P6	2/25/04	1250	G	GW-03-014B-P6	WG	18	3	2	2	1	2	2	1	1		N1			
Field QC	2/25/04	—	G	TB-D1-022504	WQ	1	1	—	—	—	—	—	—	1		TB2			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	2/25/04	1405	[signature] STL	2-25-04	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

4 @ 4.0°C

URSF-075C/1 OF 1/CofCR/GCM

463/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11719321.00006

SITE NAME NYPA GW investigation

SAMPLERS (PRINT/SIGNATURE) J. Doerr, S. McCabe, D. Coefield, R. Petarski, G. Kisla, K. Urban

LAB STL Buffalo

COOLER 1,2,3,4 of 1,2,3,4

PAGE 2 of 2

DELIVERY SERVICE: STL Courier AIRBILL NO.:

TESTS: Alkalinity Total + Bicarb; Total Hardness; Total Coliform; E-Coli; Heterotrophic Plate Ct

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 40z HDPE HNO3; 40z HDPE Na2S2O3; 40z HDPE Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	40z HDPE HNO3	40z HDPE Na2S2O3	40z HDPE Na2S2O3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW-03-013P2	2/25/02	1130	G	GW-03-013-P2	WG	—	1	1	1	1		N1			
GW-03-013P2	2/25/02	1130	G	GW-03-013-P2-MS	WG	—	1	1	1	1		MS			
GW-03-013P2	2/25/02	1130	G	GW-03-013-P2-MSD	WG	—	1	1	1	1		MSD			
Field QC						—	—	—	—	—					
GW-03-148P6	2/25/02	1250	G	GW-03-0148-P6	WG	—	1	1	1	1		N1			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	2/25/02	1405	[signature] STL	2-25-02	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]		

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

4 @ 4.0°C

URSF-075C/1 OF 1/CofCR/GCM

464/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11173J. 00006
SITE NAME NYPA GW investigation

LAB STL Buffalo
COOLER 42 of
PAGE 1 of 2

SAMPLERS (PRINT/SIGNATURE) L. Dacer S. McCabe, D. Corfield, R. Pitarski, G. Kislak, T. Urban, L. Burmeier, M. Nemetz

DELIVERY SERVICE: Drop off AIRBILL NO.:

TESTS: TCL VOC; TOC; TCL SVOCs; TCL PCB; TCL Pesticides; 2,3,7,8 TCDD; Metals; NO3, TDS, SO4

BOTTLE TYPE AND PRESERVATIVE: 40 ml VOA; 40 ml VOA-HCl; 1 Liter Amber; 1 Liter Amber; 1 Liter Amber; 1 Liter Amber; 1 L HDPE HNO3; 1 L HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 ml VOA	40 ml VOA-HCl	1 Liter Amber	1 Liter Amber	1 Liter Amber	1 Liter Amber	1 L HDPE HNO3	1 L HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-010-P1	2/25/04	1615	G	GW-03-010 P1	WG	14	3	2	2	1	2	2	1	1		N3			
Field QC	2/25/04	—	G	TB A2-022504	WQ	1	1	—	—	—	—	—	—	—		TB3			
GW03-014B-P5	2/25/04	1530	G	GW03-014B-P5	WG	18	3	2	2	1	2	2	1	1		N1			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	2/26/04	0630			

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	2/26/2004	0630

SPECIAL INSTRUCTIONS
Shipment = 2 coolers @ 4°C, 4°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

465/6069

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW investigation

SAMPLERS (PRINT/SIGNATURE) J. Dicey, S. Mc Cabe, D. Cofield, R. Petarski, G. Kisluk, T. Ulian, T. Bormeier, M. Nenc M

DELIVERY SERVICE: _____ AIRBILL NO.: _____

LAB STL Buffalo

COOLER 1,2 of 1,2

PAGE 2 of 2

TESTS: Alkalinity, Total Phenols, Total Hardness, Total Coliform, E. coli, Ht Plate Ct

BOTTLE TYPE AND PRESERVATIVE: 3 x 1 HDPE; 4 x 3 HDPE HNO3; 4 x 3 HDPE NaOH; 4 x 3 HDPE Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	3 x 1 HDPE	4 x 3 HDPE HNO3	4 x 3 HDPE NaOH	4 x 3 HDPE Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW-03-010-P1	2/25/04	1615	G	GW 03-010-P1	WG	-	1	1	1	1						N3			
GW03-014B-P5	2/26/04	1530	G	GW03-014B-P5	WG	-	1	1	1	1						N1			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	2/26/04	1630			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	2/26/04	0630

SPECIAL INSTRUCTIONS: SHIPMENT = 2 COOLERS @ 4°C; 4°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

466/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006.

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) J. Davis, S. McGahee

LAB STL-Buffalo

COOLER 1, 2 of 6

PAGE 1 of 2

DELIVERY SERVICE: STL-Pickup AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC (40 ml VOA 4°C)	TOC (40 ml VOA 4°C)	TCL SVOC (1-Liter Amber 4°C)	TCL PCB (1-Liter Amber 4°C)	TCL PESTICIDE (1 Liter Amber 4°C)	23,75 TCDD (1 Liter Amber 4°C)	Metals Inc Hg (16 oz Glass Wide Mouth)	TSS, TDS, Cl, SO4 (1 Liter Plastic)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-03A-P1	2/26/04	0950	G	GW03-03A-P1	WG		3	2	2	1	2	2	1	1		N1	—	—	
Trip Blank	1	1000	G	TBA1-022604	WQ	1	1								Trip Blank.	B1			
GW03-03A-P3		1200	G	GW03-03A-P3	WG		3	2	2	1	2	2	1	1		N1	—	—	

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	2/26/04	1400	STL	2/26/04	1400
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

682.00

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

467/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0000 6

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) J. Dorsi, S. McAuley

LAB STL-Buffalo

COOLER 1, 2 of 6

PAGE 2 of 2

DELIVERY SERVICE: STL-Pick up AIRBILL NO.:

TESTS: Aluminum, Total Sb, Cd; Total Hardness; Total Cyanide, Fe, Cl; Net Phenolics

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE; 4oz HDPE HNO_3; 4oz HDPE $NaOH$; 4oz HDPE $NaOH$, $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE	4oz HDPE	4oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013A-P1	2/26/09	0950	G	GW03-013A-P1	WG	—	1	1	1	1		WI	—		
GW03-013A-P3	↓	1200	G	GW03-013A-P3	WG	—	1	1	1	1		M	—		

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	2/26/09	1400	[signature] JTL	2-26-09	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 602.00

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

468/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.000006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, T. BURMEISTER, G. Kislak, T. Urban

LAB SIL - BUFFALO

COOLER 3, 4, 5, 6 of 6

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOC's (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOC's (1 L AMBER)	TCL PESTICIDES (1 L AMBER)	TCL PCBs (1 L AMBER)	DIOXIN (2,3,7,8-TCDD) (1 L AMBER)	METALS/ Total Hg (16 oz HDPE HNO3)	TDS/TSS/ Cl- /SO4- (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007B-P5	2/26/04	0910	G	GW03-007B-P5	WG	18	3	2	2	1	1	1	1	1		N1	–	–	–
Field QC	2/26/04	–	–	TBD-1-2-26-04	WQ	1	1	–	–	–	–	–	–	–		TB1	–	–	–
GW03-017C-P9	2/26/04	0815	G	GW03-017C-P9	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-017B-P6	2/26/04	1130	G	GW03-017B-P6	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC	2/26/04	–	–	TBC1-022604	WQ	1	1	–	–	–	–	–	–	–		TB2	–	–	–
GW03-007B-P4	2/26/04	1200	G	GW03-007B-P4	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	2/26/04	1400	SIL	2-26-04	1400
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS
ANY QUESTIONS CONTACT JIM LEHNEN AT 402.0°C
1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

469/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, T. BURNEIER, Kislok, T. Dixon

LAB STL - BUFFALO

COOLER 3,4,5,6 of 6

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: ALKALINITY (CARB; BICARB), TOTAL HARDNESS, TOTAL COLIFORM/E. COLI, HET. PLATE COUNT, METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 4 oz HDPE Na2S2O3; 12 oz GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	4 oz HDPE Na2S2O3	12 oz GLASS				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-007B-P5	2/26/04	0910	G	GW03-007B-P5	WG	—	1	1	1	1	1					N1	—	—	—
GW03-017C-P9	2/26/04	0815	G	GW03-017C-P9	WG	—	1	1	1	1	—					N1	—	—	—
GW03-017B-P6	2/26/04	1130	G	GW03-017B-P6	WG	—	1	1	1	1	—					N1	—	—	—
GW03-007B-P4	2/26/04	1200	G	GW03-007B-P4	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	2/25/04	1400	STL	2-26-04	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: HOLD METHYL HG SAMPLE. 6@2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA GW Sampling

SAMPLERS (PRINT/SIGNATURE) D. Gaede, R. Mikowski, S. Wisniewski, J. Davis, S. Thomas, E. Kolak, T. Urban

LAB STL - Buffalo

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: Dayport AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC 40 ml vial w/ HCl	TOC 40 ml vial w/ HCl	TCL SVOC 1 Liter amber w/ 4°C	TCL PCB 1L Liter Amber 4°C	TCL Pesticide 1 Liter amber 4°C	2,3,7,8 TCDD 1 Liter amber 4°C	Mercury 16 oz HDPE w/ HNO3	Total Hg 16 oz HDPE w/ HNO3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013B-F5	2/26/04	1405	G	GW03-013B-F5	WG	18	3	2	2	1	2	2	1	1		WL	—	—	—
GW03-013C-F7	↓	1515	G	GW03-013C-F7	WG		3	2					1	1		WL	—	—	—
GW03-013B-F9		1530	G	GW03-013B-F9	WG	18	3	2	2	1	2	2	1	1		WL	—	—	—
Field QC		—	G	TB02-022604	WQ	1	1	—	—	—	—	—	—	—		#31	—	—	
GW03-014C-F7	↓	1400	G	GW03-014C-F7	WG	18	3	2	2	1	2	2	1	1		WL	—	—	—
Field QC	↓	—	—	TB03-022604	WQ	1	1	—	—	—	—	—	—	—		TB2	—	—	—
GW03-004A-M1	↓	1250	G	GW03-004A-M1	WG	18	3	2	2	1	2	2	1	1		MS	—	—	—
GW03-004A-M1	↓	1025	G	GW03-004A-M1	WG	18	3	2	2	1	2	2	1	1		MS	—	—	—
Field QC	2/26/04	—	—	TB01-022604	WQ	1	1	—	—	—	—	—	—	—		TB3	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	2/26/04	0630	K. Kozerski	2/27/2004	0627

SPECIAL INSTRUCTIONS: SHIPMENT = 5 COOLERS @ 3°C, 3°C, 4°C, 3°C, 2°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/ColCR/GCM

471/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME Niagara Gw Sampling

SAMPLERS (PRINT/SIGNATURE) D. Coffelt, R. Rizkanskas, S. Martinez, J. Doen, S. Tivon, C. Kidd, T. Urban

LAB STL-Buffalo

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: Drop Off AIRBILL NO.:

TESTS: Aluminum Total + Diss; Total Manganese; Total Coliform; Fecal Coliform; Hot Plate Cont

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO_3; 16oz HDPE $Na_2S_2O_3$; 4oz HDPE $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE HNO_3	16oz HDPE $Na_2S_2O_3$	4oz HDPE $Na_2S_2O_3$				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013B-P5	2/26/04	1420	G	GW03-013B-P5	WG	—	1	1	1	1					N1	—	—	—
GW03-013C-P7		1515	G	GW03-013C-P7	WG	—	1	1	1	1					N1	—	—	
GW03-013B-P4		1530	G	GW03-013B-P4	WG	—	1	1	1	1					N1	—	—	
GW03-014C-P7		1400	G	GW03-014C-P7	WG	—	1	1	1	1					N1	—	—	—
GW03-001A-P1		1250	G	GW03-001A-P1	WG	—	1	1	1	1					N1	—	—	—
GW03-002A-P1		1325	G	GW03-002A-P1	WG	—	1	1	1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	2/27/2004	0830		2/27/2004	0627

SPECIAL INSTRUCTIONS: SHIPMENT = 5 COOLERS 0.5°C, 3°C, 4°C, 3°C, 2°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

472/6069

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) David Cofield, Steven Tirnan

LAB STL BUFFALO

COOLER 1 of 2

PAGE 1 of 2

DELIVERY SERVICE: STL AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TEST: TCL VOAs (BOTTLE TYPE AND PRESERVATIVE: 40 ml VOA 4°C)	TCL (40 ml VOA HCL)	TCL SVOAs (1 L Amber 4°C)	TCL Pest (1 L Amber 4°C)	TCL PCBs (1 L Amber 4°C)	2,3,7,8 TCDD (1 L Amber 4°C)	Total Metals + Hg (16 oz ADPE)	TDS, TSS, SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-004A-P1	3-1-04	1030	G	GW03-004A-P1	WG	14	1		1	-	1					N1	-	-	-
GW03-004A-P2	3-1-04	1245	G	GW03-004A-P2	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
~~FIELD QC~~				~~TB01-030104~~	~~WQ~~	~~1~~	~~1~~	~~—~~	~~—~~	~~—~~	~~—~~	~~—~~				~~TB1~~	~~—~~	~~—~~	~~—~~

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3-1-04	1430	[signature] STL	3-2-04	14:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

7e 4.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

462/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) David Cofield / Steven Tivnan

LAB STL Buffalo

COOLER 1 of 2

PAGE 1 of 2

DELIVERY SERVICE: STL AIRBILL NO.: N/A

TESTS: Alkalinity Total + Bicarb; Total Hardness; Total Coliform ecoli; Total Hot Dulte (+); METHYL MERCURY

BOTTLE TYPE AND PRESERVATIVE: 1 oz HDPE; 40 oz HDPE HNO3; HDPE 40 oz Waste; 4 oz HDPE Na2S2O3; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	1 oz HDPE	40 oz HDPE HNO3	HDPE 40 oz Waste	4 oz HDPE Na2S2O3	12 oz glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-004A-P1	3-1-04	1030	G	GW03-004A-P1	WG	1	1	1	1	1						NI	-	-	-
GW03-004A-P2	3-1-04	1245	G	GW03-004A-P2	WG	1	1	1	1	1	1					NI	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3-1-04	1430	[signature] STL	3-01-04	14:30
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Fe 4.0°

Distribution: Original accompanies shipment, copy to coordinator field files

463/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0006

SITE NAME NYPA - GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. McCabe, J. Dow

LAB STL-Buffalo

COOLER 1 of

PAGE 2 of

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS: Alkalinity (Carb/Bicarb); Total Hardness; Total Coliform; F.Coli; Heat Plate Count; Methyl Hg.

BOTTLE TYPE AND PRESERVATIVE: 4oz HDPE; 4oz HDPE HNO3; 4oz HDPE; 4oz HDPE; 1L-2 plastic

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	Alkalinity (Carb/Bicarb)	Total Hardness	Total Coliform	F.Coli	Heat Plate Count	Methyl Hg.				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010B-P6	3/1/04	1000	G	GW03-010B-P6	WG	—	1	1	1	1							N	—	—	—
GW03-010B-P4		1130		GW03-010B-P4	WG	—	1	1	1	1							N	—	—	—
GW03-010B-P5		1320		GW03-010B-P5	WG	—	1	1	1	1							N	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/1/04	1400	STL	3-01-04	14:00
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

7.4°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

464/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. McCabe, J. Dorr

LAB STL - BUFFALO

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs 40 ml vial 4°C	TCL SVOCs 40 ml vial HCL	TCL Pesticides 1 L Amber 4°C	TCL PCBs 1 L Amber 4°C	Dioxin (2,3,7,8-TCDD) 1 L Amber 4°C	Mercury / Total Hg 16 oz Amber HNO3	TDS/TSS Cl-/SO4- 16 oz Amber	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010B-P6	3/1/04	1000	G	GW03-010B-P6	WG	18	3	2	2	2	1	2	1	1		WI		
TRIP Blank 1		1030		TBA1-030104	WI	1	1								TRIP Blank 1	TB		
GW03-010B-P4		1130		GW03-010B-P4	WG	18	3	2	2	2	1	2	1	1		WI		
GW03-010B-P5		1320		GW03-010B-P5	WG	18	3	2	2	2	1	2	1	1		WI		

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/1/04	1400	STL	3-01-04	14:00
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS
Samples Shipped on Ice
Contact Jim Lehner w/any Questions/Problem - 856-5636.
Ice 4.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

465/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117 1932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban, G. Kislak

LAB STL - Buffalo

COOLER _____ of _____

PAGE _____ of _____

DELIVERY SERVICE: STL Courier AIRBILL NO.: _____

TESTS: TCL VOAs; TOC; TCL SVOAs; TCL Pesticides; TCL PCBs; 6,37,8-TCDD; Total Metals + Hg; TDS, TSS, Soil

BOTTLE TYPE AND PRESERVATIVE: 40 ml VOA; 40 ml VOA HCl; 1 L Amber Glass; 1 L Amber Glass; 1 L Amber Glass; 1 L Amber Glass HNO3; 1 L HDPE; 1 L HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 ml VOA	40 ml VOA HCl	1 L Amber Glass	1 L Amber Glass	1 L Amber Glass	1 L Amber Glass	1 L HDPE HNO3	1 L HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017A-P2	3/1/04	1130	G	GW03-017A-P2	WG	18	23	2	2	2	1	2	1	1		NI	-	-	-
Field QC		-	-	TBC1-030104	WQ	1	1	-	-	-	-	-	-	-		TB1	-	-	-
GW03-007A-P2		1040	G	GW03-007A-P2	WQ	19	3	2	2	2	1	2	1	1		NI	-	-	-
FIELD QC				TBD1-030104	WQ	1	1	-	-	-	-	-	-	-		TB1			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/1/04	1400	STL	3-1-04	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 7c 4D'c

Distribution: Original accompanies shipment, copy to coordinator field files

466/6318

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.000016

SITE NAME NYPA FW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kistok, T. Urban

LAB STL-Buffalo

COOLER ____ of ____

PAGE ____ of ____

DELIVERY SERVICE: STL-Courier AIRBILL NO.: ____

TESTS: Alkalinity, Total + Dissolved; Total Hardness; Total Cyanide; Total Phenols; Nitrate/Nitrite; Mercury

BOTTLE TYPE AND PRESERVATIVE: 3oz HDPE; 4oz HDPE HNO3; 4oz HDPE; 4oz HDPE NaOH; 4oz HDPE NaOH; 8oz Clear Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	3oz HDPE	4oz HDPE HNO3	4oz HDPE	4oz HDPE NaOH	4oz HDPE NaOH	8oz Clear Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-017A-P2	3/1/04	1130	G	GW03-017A-P2	WG	1	1	1	1	1							N1	—	—	—
GW03-017A-P2	1	1040	G	GW03-017A-P2	WG	1						1					N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/1/04	1400	[signature] STL	3-01-04	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Tc 4.0°c

Distribution: Original accompanies shipment, copy to coordinator field files

467/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kristek, T. Urban, J. Dexter, S. Turner, [illegible], P. Pelardi

LAB STL-BUFFALO

COOLER ____ of ____

PAGE 1 of 3

DELIVERY SERVICE: STL Courier AIRBILL NO.: —

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; 2,3,7,8-TCDD; METALS + Total Hg; DS, TSS, Cl, SO4

BOTTLE TYPE AND PRESERVATIVE: 40 ml VOA; 40 ml VOA, HCl; 1L Amber Glass; 1L Amber Glass; 1L Amber Glass; 16 oz HDPE HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 ml VOA	40 ml VOA, HCl	1L Amber Glass	1L Amber Glass	1L Amber Glass	1L Amber Glass	16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-014A-P1	2/27/04	0815	G	GW03-014A-P1	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
GW03-014B-P4		1040	G	GW03-014B-P4	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
				GW03-014B-P4 MS	WG	18	3	2	2	2	1	2	1	1		MS1	-	-	-
				GW03-014B-P4 MSD	WG	18	3	2	2	2	1	2	1	1		SD1	-	-	-
Field QC		—	—	TBC1-022704	WQ	1	1	-	—	—	—	—	—	—		TB1	-	-	—
GW-010A P2		1200	G	GW03-010A-P2	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
GW-013B-P6		0900		GW03-013B-P6	WG	6	3	2								N1	—	—	—
GW-013A-P7		0830		GW03-013C-P7	WG	7			2	2	1	2				N1	—	-	—
Field QC		—	—	TBA1-022704	WQ	1	1	—	—	—	—	—	—	—	TB2	TB2	-	—	—
Field QC		1330	G	EB1-Bailer Blank	WQ	19	3	2	2	2	1	2	1	1		EB1	-	—	—
FIELD QC		—	—	TBD1-022704	WQ	1	1	—	—	—	—	—	—	—	TB3	TB3	—	—	—
GW03-007A-P3		1120	G	GW03-007A-P3	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-007A-P1		1300	G	GW03-007A-P1	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	2-27-04	1420	[signature] STL	2-27-04	14:20
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 10@2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

469/6318

URSF.075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) David Coffield/Melissa N. T. Bowyer R. Red. G. Kelly, T. Vilan J. Dorr/S. Tivman

LAB STL-Buffalo

COOLER ____ of ____

PAGE 2 of ~~2~~ 3

DELIVERY SERVICE: STL Courier AIRBILL NO.: —

TESTS: ALKALINITY (EPA + BICARB); TOTAL HARDNESS; TOTAL COLIFORM E. COLI; TOTAL HET. PLATE CT.; Monomethyl Mercury; Mercury

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO_3; 4 oz HDPE NaS_2O_3; 4 oz HDPE $NaSiO_3$; 8 oz glass zero headspace

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE NaS_2O_3	4 oz HDPE $NaSiO_3$	8 oz glass zero headspace				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014A-P1	2/27/04	0815	G	GW03-014A-P1	WG	—	1	1	1	1	—					N1	—	—	—
GW03-014B-P4		1040	G	GW03-014B-P4	WG	—	1	1	1	1	—					N1	—	—	—
↓		↓	↓	GW03-014B-P4MS	WG	—	1	1	1	1	—					MS1	—	—	—
↓		↓	↓	GW03-014B-P4MSD	WG	—	1	1	1	1	—					SD1	—	—	—
GW03-10A-P2	~~1304~~	1300	G	GW03-010A-P2	WG	—	1	1	1	1	—					N1	—	—	—
GW03-13B-P6	~~0900~~	0900	G	GW03-013B-P6	WG	—	1	—	—	—	—					N1	—	—	—
Field QC		1330	G	EBI-Bailer Blank	WQ	—	1	1	1	1	1					EBI	—	—	—
GW03-007A-P3	2/27/04	1120	G	GW03-007A-P3	WG	—	1	1	1	1	1					N1	—	—	—
GW03-007A-P1	↓	1300	G	GW03-007A-P1	WG	—	1	1	1	1	1					N1	—	—	—
GW03-002A-P1	↓	0845	G	GW03-002A-P1	WG	1	—	—	—	—	1					N1	—	—	—
GW03-001A-P1	↓	0900	G	GW03-001A-P1	WG	1	—	—	—	—	1					N1	—	—	—
GW03-001A-P2	↓	1315	G	GW03-001A-P2	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	2-27-04	1420	STL	2-27-04	14:20
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 10@20°C

Distribution: Original accompanies shipment, copy to coordinator field files

470/6318

URSF 075C/LOF1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117 1932. 00006

SITE NAME NYPA-GW Investigation

SAMPLERS (PRINT/SIGNATURE) G.K. D. Cofield, M. Nemeth

LAB STL Buffalo

COOLER ____ of ____

PAGE 3 of 3

DELIVERY SERVICE: STL Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOA (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOA (1 L Amber glass)	TCL DRESTICIDES (1 L Amber glass)	TCL PCB (1 L Amber glass)	2,3,7,8-TCDD (1 L Amber glass)	METALS + Total Hg (16 oz HDPE HNO3)	TDS, TSS, Cl⁻, SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO.# (ERPIMS)
GW03-001A	P2 2/27/04	1315	G	GW03-001A-P2	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	↓	—	—	TB01-022704	WQ	1	1	—	—	—	—	—	—	—		TB4	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	2-27-04	1420	STL	2-27-04	1420
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

10@2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

471/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Sampling

SAMPLERS (PRINT/SIGNATURE) D. Corbett, R. Nakarski, S. Mccarthy, J. Deery, S. Morris, D. Kislik, T. Urban

LAB SIL - Buffalo

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: Dropoff AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC 40 ml Vial 4°C	TOC 40 ml Vial HCL	TCL SVOC 1 Liter Amber 4°C	TCL PCB 1 Liter Amber 4°C	TCL Pesticide 1 Liter Amber 4°C	2,3,7,8 TCDD 1 Liter Amber 4°C	Mercury 16oz Amber 4°C	TSS, TDS, Cl, SO4 16 oz Amber	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013B-P5	2/26/04	1405	G	GW03-013B-P5	WG	18	3	2	2	1	2	2	1	1		WL	—	—	—
GW03-013C-P7	↓	1515	G	GW03-013C-P7	WG		3	2					1	1		WL	—	—	—
GW03-013B-P9		1530	G	GW03-013B-P9	WG	18	3	2	2	1	2	2	1	1		WL	—	—	—
Field QC		—	G	TB12-022604	WQ	1	1	—	—	—	—	—	—	—		TB1	—	—	
GW03-014C-P7	↓	1400	G	GW03-014C-P7	WG	18	3	2	2	1	2	2	1	1		Ni	—	—	—
Field QC	↓	—	—	TB23-022604	WQ	1	1	—	—	—	—	—	—	—		TB2	—	—	—
GW03-00A-P1	↓	1250	G	GW03-00A-P1	WG	18	3	2	2	1	2	2	1	1		Ni	—	—	—
GW03-00A-P1	↓	1025	G	GW03-00A-P1	WG	18	3	2	2	1	2	2	1	1		Ni	—	—	—
Field QC	2/26/04	—	—	TB31-022604	WQ	1	1	—	—	—	—	—	—	—		TB3	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	2/26/04	0638	K. Kozerski	2/27/2004	0627

SPECIAL INSTRUCTIONS
SHIPMENT = 5 COOLERS @ 3°C, 3°C, 4°C, 3°C, 2°C.
KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

472/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME Niagara Gw Sampling

SAMPLERS (PRINT/SIGNATURE) D Cofield, R. Pekowski, S. Hughes, J. Dorn, S. Tiun, G. Kistle, T. Urban

LAB STL-Buffalo

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: Drop Off AIRBILL NO.:

TESTS: Alkalinity Total + Bicarb; Total Hardness; Total Dissolved Solids; Net Phenol Content

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO3; 4oz HDPE Na2S2O3; 4oz HDPE Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz HDPE	4oz HDPE HNO3	4oz HDPE Na2S2O3	4oz HDPE Na2S2O3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-013B-P5	2/26/04	1405	G	GW03-013B-P5	WG	—	1	1	1	1		N	—	—	—
GW03-013C-P7		1515	G	GW03-013C-P7	WG	—	1	1	1	1		N	—	—	
GW03-013B-P4		1530	G	GW03-013B-P4	WG	—	1	1	1	1		N	—	—	
GW03-014C-P7		1400	G	GW03-014C-P7	WG	—	1	1	1	1		N	—	—	—
GW03-001A-P1		1250	G	GW03-001A-P1	WG	—	1	1	1	1		N	—	—	—
GW03-002A-P1		1025	G	GW03-002A-P1	WG	—	1	1	1	1		N	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
	2/27/2004	0630		2/27/2004	0637

SPECIAL INSTRUCTIONS: SHIPMENT = 5 COOLERS @ 3°C, 3°C, 4°C, 3°C, 3°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

473/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.0000

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) David C. Field II / Steven Tunnan

LAB STL BUFFALO

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TESTS: TCL VOAs	TOC	TCL SVOAs	TCL PEST	TCL PCBs	2,3,7,8 TCDD	Total Metals + Hg	TDS, TSS - Soil/Sed	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							BOTTLE TYPE AND PRESERVATIVE: 40 z ml VOA 4°C	40 z ml VOA HCL	1 L Amber 4°C	1 L Amber 4°C	1 L Amber 4°C	1 L Amber 4°C	16 oz HDPE 4°C	16 oz HDPE 4°C					
GW03-003A-P1	3-1-04	1615	G	GW03-003A-P1	WG	19	3	2	2	2	1	2	1	1					
FIELD QC	3-1-04	—	—	TBB1-030104	WQ	1	1	—	—	—	—	—	—	—		TBI	—	—	—
GW03-008B-P4	3-1-04	1415	G	GW03-008B-P4	WG	18	3	2	2	2	1	2	1	1					
FIELD QC	3-1-04			TBD2-030104	WQ	1	1	—	—	—	—	—	—	—		TBI	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/2/04	0630			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			K.E. Kasperek	3/2/2004	0630

SPECIAL INSTRUCTIONS: Shipment = 4 coolers @ 3°C, 3°C, 4°C, 4°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

474/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11 71932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) David Cofield / Steven Tinnan

LAB STL BUFFALO

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: _____ AIRBILL NO.: N/A

TESTS: Alkalinity Total + Bicarb; Total Hardness; Total Coliform + E. coli; Total Met Plate(A); Method mercury

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE; 4oz HDPE NaSO4; 4oz HDPE NaSO3; 12 oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE	4oz HDPE NaSO4	4oz HDPE NaSO3	12 oz glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-003A-P1	3-1-04	1615	G	GW03-003A-P1	WG	—	1	1	1	1	1					N1	—	—	—
GW03-003B-P4	3-1-04	1415	G	GW03-003A-P4	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/2/04	0630			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			K.E. Kozak	3/2/04	0630

SPECIAL INSTRUCTIONS: Shipment = 4 coolers @ 3°C, 3°C, 4°C, 4°C. KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

475/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA - GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. McCarr, J. Doers

LAB STL - Buffalo

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: Drop off. AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC 40 ml VOA 4°C	TOC 40 ml VOA HCL	TCL SVOC 1L Amber 4°C	TCL Pesticides 1L Amber 4°C	TCL PCB 1L Amber 4°C	Dioxin 2,3,7,8 TCDD 1L Amber 4°C	metals, total Hg 16oz HDPE HNO3	TDS/TSS Cl, SO4 16oz Amber 4°C	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010C-P7	3/1/04	1540	G	GW03-010C-P7	WG	18	3	2	2	2	1	2	1	1		N1	—	—	
Field Qc ~~Trip Blank~~		1600	—	TBA2-030104	WQ	1	1									TB2	—	—	
GW03-014A-P3		1645	G	GW03-014A-P3	WG	18	3	2	2	2	1	2	1	1		N1	—	—	
Field Qc			—	TBC2-030104	WQ	1	1									TB1	—	—	

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/2/04	0630			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/2/2004	0630

SPECIAL INSTRUCTIONS
Samples shipped on ICE
Contact Jim Lehner w/ any questions/problems
716-856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

SHIPMENT = 4 COOLERS @ 2°C 2°C 4°C 4°C. VTX

476/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA - GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. McCABE, J. Doerr

LAB STL - BUFFALO

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: Drop Off AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	Alkalinity 8oz HDPE	Total + Diss Hardness 4oz HDPE HNO3	Total Coliform 4oz HDPE Na2S2O3	TC Coli 4oz HDPE Na2S2O3	Total Hot Plate Cont Methyl Mercury 8oz glass jar				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-010C-P7	3/1/04	1540	G	GW03-010C-P7	WG	—	1	1	1	1	—					N	—		
GW03-014A-P3	3/1/04	1645	G	GW03-014A-P3	WG	—	1	1	1	1	T					N	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/2/04	0630			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	3/2/2004	0630

SPECIAL INSTRUCTIONS: Samples shipped on ICE. CONTACT Jim Schaefer w/ any Questions / problems 716-856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

SHIPMENT = 4 COOLERS @ 2°, 2°, 4°C, 4°C, 1°C

477/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) G. Kiljak, T. Urban, R. Pedersen, T. Burmeister, S. McCabe, J. Dozier, D. Coffield, M. Nemeth

LAB STL - BUFFALO

COOLER 1234 of 4

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: NA

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxins (2,3,7,8-TCDD); Metals/Total Hg; TDS/TSS/Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1L Amber; 1L Amber; 1L Amber; 1L Amber; 1L 02 HDPE HNO3; 1L 02 HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L Amber	1L Amber	1L Amber	1L Amber	1L 02 HDPE HNO3	1L 02 HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-003A-P2	3/2/04	10:30	G	GW03-003A-P2	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
FIELD QC	3/2/04	–	–	TBB1 ~~-01-03-02-04~~ -030204	WQ	1	1									TB1	–	–	–
GW03-005A-P1	↓	1005	G	GW03-005A-P1	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-005A-P2		1115	↓	GW03-005A-P2	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-005B-P5		1030		GW03 005B-P5	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC		–	–	TBA1-030204	WQ	1	1									TB2	–	–	–

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/2/04	1325	STL	3-02-04	13:23
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: ANY QUESTIONS CONTACT JIM LEHNEN AT 1-800-850-9230 402.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

478/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) G. Kolb, Tushin, Tiburzio, R. Pekowski, S. McCabe, J. Dozor
D. Cofield, M. Nemeth

LAB STL - BUFFALO

COOLER 1,2,3,4 of 4

PAGE 2 of 2

DELIVERY SERVICE: STL Courier AIRBILL NO.: NA

TESTS: Alkalinity (Carb & Bicarb); Total Hardness; Total Coliform/E. Coli; Het. Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 4 oz HDPE Na2S2O3; 12 oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	4 oz HDPE Na2S2O3	12 oz Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-OD3A-P2	3/2/04	1030	G	GW03-OD3A-P2	WG	—	1	1	1	1	1					N1	-	-	-
GW03-OOFA-P1	↓	1005	G	GW03-OOFA-P1	WG	—	1	1	1	1	1					N1	-	-	-
GW03-OOFA-P2		1115	G	GW03-OOFA-P2	WG	—	1	1	1	1	1					N1	-	-	-
GW03-OOFB-P5		1030	G	GW03-OOFB-P5	WG	—	1	1	1	1	1					N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/2/04	1325	STL	3-02-04	13:25
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: ~~Hold Methyl Hg Sample~~ 402.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

479/6318

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) G. Kidd, T. Urban, R. Polanski, T. Burmeister, S. McCabe, J. Doran, D. Cofield, M. Nemeth

LAB STL - BUFFALO

COOLER 1234 of 4

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: NA

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; Dioxins/2,3,7,8-TCDD; Metals/Total Hg; TDS/TSS/Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1 L Amber; 1 L Amber; 1 L Amber; 1 L Amber; 1 L 02 HDPE HNO3; 1 L 02 HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1 L Amber	1 L Amber	1 L Amber	1 L Amber	1 L 02 HDPE HNO3	1 L 02 HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-003A-P2	3/2/04	1030	G	GW03-003A-P2	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
FIELD QC	3/2/04	–	–	TBB1-030204 ~~-01-03-02-04~~	WQ	1	1									TB1	–	–	–
GW03-008A-P1	↓	1005	G	GW03-008A-P1	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-008A-P2		1115	↓	GW03-008A-P2	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
GW03-008B-P5		1030	↓	GW03-008B-P5	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC	↓	–	–	TBA1-030204	WQ	1	1									TB2	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/2/04	1325	STL	3-02-04	13:25
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: ANY QUESTIONS CONTACT JIM LEHNEN AT 1-800-850-9230

Distribution: Original accompanies shipment, copy to coordinator field files

4 @ 2.0°C

URSF-075C/1 OF 1/CofCR/GCM

430/5988

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) G. Kistler, T. Urban, T. Burmeister, R. Pekarski, S. McCabe, J. Dozier
D. Cofield, M. Nemeth

LAB STL - BUFFALO

COOLER 1,2,3,4 of 4

PAGE 2 of 2

DELIVERY SERVICE: STL Courier AIRBILL NO.: NA

TESTS: Alkalinity (Carb & Bicarb); Total Hardness; Total Coliform/E. Coli; Het. Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO3; 4oz HDPE Na2S2O3; 4oz HDPE Na2S2O3; 12oz Glass

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE HNO3	4oz HDPE Na2S2O3	4oz HDPE Na2S2O3	12oz Glass				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-003A-P2	3/2/04	1030	G	GW03-003A-P2	WG	1	1	1	1	1	1					N1	-	-	-
GW03-005A-P1	↓	1005	G	GW03-005A-P1	WG	1	1	1	1	1	1					N1	-	-	-
GW03-005A-P2		1115	G	GW03-005A-P2	WG	1	1	1	1	1	1					N1	-	-	-
GW03-005B-P5		1030	G	GW03-005B-P5	WG	1	1	1	1	1	1					N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/2/04	1325	STL	3-02-04	1325
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: ~~Hold Methyl Hg Sample~~

Distribution: Original accompanies shipment, copy to coordinator field files

402.00

431/5988

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. McCabe, J. Dier, T. Burmeier, R. Pekarski, G. Kiblik, T. Urban, D. Cofield, M. Nemetz

LAB STL Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: ~~STL Courier~~ URS Delivery AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOA (40 mL VOA)	TOC (40 mL VOA, HCl)	TCL SVOAs (1L Amber glass)	TCL Pesticides (1L Amber Glass)	TCL PCBs (1L Amber Glass)	2,3,7,8-TCDD (1L Amber Glass)	Total Metals + Hg (16oz HDPE HNO3)	TSS, TDS, SO_4, Cl^- (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-008A-P3	3-2-04	1330	G	GW03-008A-P3	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	↓	—	—	TBA2-030204	WQ	1	1									TB1	—	—	—
GW03-006A-P1	3/2/04	1515	G	GW03-006A-P1	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-010A-P3	3/2/04	1615	G	GW03-010A-P3	WG	18	3	2	2	2	1	2	1	1					
Field QC	3/2/04	1630	G	TBA2-030204	WQ	1	1									TB2			

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/3/04	0627			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	03/03/04	0627

SPECIAL INSTRUCTIONS

Any Questions Contact Jim Lehnen at 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

(Thermoit = 2 coolers @ 32 [illegible])

432/5988

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. McCabe, J. Beer, J. Burmeier, R. Richardi, G. Kistle, T. Urban

LAB SIL-Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: ~~SIL Courier~~ URS Delivery AIRBILL NO.: NA

TESTS: Hardness; Alkalinity; Total + Dissolved Total Coliform + E. coli; Total Jet Fuel + Flash Point; Monomethyl mercury

BOTTLE TYPE AND PRESERVATIVE: 500 ml HDPE HNO3; 500 ml HDPE; 500 ml HDPE NaS2O3; 500 ml HDPE NaOH; 500 ml Glass zero headspace

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Hardness	Alkalinity	Total Coliform	Total Jet Fuel	Monomethyl mercury				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-008A-P3	3-2-04	1330	G	GW03-008A-P3	WG	—	1	1	1	1	1					N1	—	—	—
GW03-006A-P1	3/2/04	1515	G	GW03-006A-P1	WG	—	1	1	1	1	1					N1	—	—	—
GW03-010A-P3	3/2/04	1615	G	GW03-010A-P3	WG	—	1	1	1	1	0 M.N.					N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/2/04	0627			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	03/03/04	0627

SPECIAL INSTRUCTIONS: Any Questions Contact Jim Lehnen AT 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

433/5988

URSF 075C/1 OF1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11117932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) M. NEMETH, S. TIVNAN J. DOLAR, R. PEKARSKI

LAB STL - BUFFALO

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: ALKALINITY (CARB + BICARB), TOTAL HARDNESS, TOTAL CALCIUM, TOTAL IRON, HOT PLATE COUNT, METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE, 4 oz HDPE HNO3, 4 oz HDPE Na2S2O3, 4 oz HDPE Na2S2O3, 12 oz GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	4 oz HDPE Na2S2O3	12 oz GLASS				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-006A-P5	3/3/04	0900	G	GW03-006A-P5	WG	—	1	1	1	1	1					N1	—	—	—
GW03-006B-P4	3/3/04	1010	G	GW03-006B-P4	WG	—	1	1	1	1	1					N1	—	—	—
GW03-009B-P4	3/3/04	1000	G	GW03-009B-P4	WG	—	1	1	1	1	1					N1	—	—	—
GW03-009B-P6	3/3/04	1200	G	GW03-009B-P6	WG	—	1	1	1	1	1					N1	—	—	—
GW03-009B-P6	3/3/04	1200	G	GW03-009B-P6 MS	WG	1					1					MS1	—	—	—
GW03-009B-P6	3/3/04	1200	G	GW03-009B-P6 MSD	WG	1					1					SD1	—	—	—
GW03-006B-P4	3/3/04	1430	G	GW03-006B-P2	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/3/04	1510	[signature] STL	3-03-04	1510
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 1002.00

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

434/5988

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. TIVNAN, M. NEMETH

LAB STL BUFFALO

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: TCL VOCs; ~~TPH~~ TOC; TCL PESTICIDES; TCL PCBs; TBL SVOCs; DIOXINS (2,3,7,8-TCDD); METALS (TOTAL HG, TDS, TSS, Cl-, SO4)

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1L AMBER; 1L AMBER; 1L AMBER; 1L AMBER; 1L 02 HDPE W/HNO3; 1L 02 HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L AMBER	1L AMBER	1L AMBER	1L AMBER	1L 02 HDPE W/HNO3	1L 02 HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-006A-P5	3/3/04	0900	G	GW03-006A-P5	WG	19	3	2	2	1	2	2	1	1		N1	-	-	-
GW03-006B-P4	3/3/04	1010	G	GW03-006B-P4	WG	19	3	2	2	1	2	2	1	1		N1	-	-	-
FIELD QC	3/3/04	—	—	TBB-1-030304	WQ	1	1									TB1	-	-	-
FIELD QC	3/3/04	-	—	TBD-1-030304	WQ	1	1									TB1	-	-	-
GW03-009B-P4	3/3/04	1000	G	GW03-009B-P4	WG	19	3	2	2	1	2	2	1	1		N1	-	-	-
GW03-009B-P6	3/3/04	1200	G	GW03-009B-P6	WG	19	3	2	2	1	2	2	1	1		N1	-	-	-
GW03-006B-P4	3/3/04	1430	G	GW03-006B-P2	WG	19	3	2	2	1	2	2	1	1		N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/3/04	1510	[signature] STL	3-03-04	1510
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 1002.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

435/5988

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) S McCabe, J. Esposito, G Kwolek, T Lorch

LAB STL - Buffalo

COOLER 1 of 2

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS: TCL VOC; TOC; TCL SVOC; TCL Pesticides; TCL PCBs; Dioxin 33,78 TCDD; Total Metals + Hg; TDS, TDS, SO4, Cl

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 ml VOA 4°C	40 ml VOA HCL	1L Amber 4°C	1L Amber 4°C	1 L Amber 4°C	1 L Amber 4°C	16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-012A-P2	3/3/04	1130	G	GW03-012A-P2	WG	18	3	2	2	2	1	2	1	1		N1			
Trip Blank	↓	1200	G	TBA1-030304	WQ	1	1								Trip Blank	TB1			
GW03-012B-P6	↓	1320	G	GW03-012B-P6.	WG	18	3	2	2	2	1	2	1	1		N1			
GW03-011B-P4	3/3/04	0910	G	GW03-011B-P4	WG	18	3	2	2	2	1	2	1	1		N1			
GW03-011B-P4	↓	0910	G	GW03-011B-P4 MS	WG	17	3	1	2	2	1	2	1	1	Matrix Spike	MS1			
GW03-011B-P4	↓	0910	G	GW03-011B-P4 MSD	WG	17	3	1	2	2	1	2	1	1	matrix spike dup.	SD1			
Trip Blank	↓	0910	G	TBC1-030304	WQ	1	1								Trip Blank.	TB1			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/3/04	1510	[signature] STL	03-03-04	15:10
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Samples shipped on ice, Contact Jim Lehnen w/ Any Question/ problem 856-5636.

Distribution: Original accompanies shipment, copy to coordinator field files

1002.0°C

URSF-075C/1 OF 1/CofCR/GCM

436/5988

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NPPA - GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. McCabe, J. Esposito, G. Kusik, Turbak.

LAB STL - Buffalo

COOLER 1 of 2

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Hardness	Alkalinity Total Bicarb	Total Calcium Total Ca	Total Hot Phosphate G.	Mercury				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							500 HDPE HNO3	500 HDPE	500 HDPE	500 HDPE Na2S2O3	500 HDPE Na2S2O3	500 Glass							
GW03-012A-P2	3/3/04	1130	G	GW03-012A-P2	WG	—	1	1	1	1									
GW03-012B-P6	↓	1320	G	GW03-012B-P6	WG	—	1	1	1	1									
GW03-011B-P4	3/3/04	0910	G	GW03-011B-P4	WG	—	1	1	1	1									
GW03-011B-P4		0910	G	GW03-011B-P4MS	WG	—	1	1	1	1					matrix spike	MS1	—	—	
GW03-011B-P4	↓	0910	G	GW03-011B-P4MSD	WG	—	1	1	1	1					matrix spike Dup.	SD1	—	—	

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES				
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/3/04	1510	[signature] STL	3/3/04	15:10
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
Samples Shipped on ICE
Contact Jim Lahren w/Any Questions/Comments 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

1082.02

URSF-075C/1 OF 1/CofCR/GCM

437/5988

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA-GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. McCabe, J. Esposito, G. Kusek, T. Carroll, M. Woods

LAB SRL-Buffalo

COOLER 1 of 5

PAGE 1 of

DELIVERY SERVICE: Dropoff AIRBILL NO.:

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC (40 ml VOA 2°C)	TOC (40 ml vial HCl)	TCL SVOC (1 L amber 4°C)	TCL PEST (1 L amber 4°C)	TCL PCB (1 L amber 4°C)	Dioxin (1 L amber 4°C)	Total Metals + Hg (16 oz HDPE HNO3)	TSS, TDS, Sp. Cond (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014A-P2	3/3/04	1515	G	GW03-014A-P2	WG	18	3	2	2	2	1	2	1	1		N1			
Trip Blank	3/3/04	1530	G	TBA2-030304	WQ	1	1									TB2			
GW03-012B-P5	3/3/04	1655	G	GW03-012B-P5	WG	18	3	2	2	2	1	2	1	1		N1			
GW03-012C-P7	3/3/04	1630	G	GW03-012C-P7	WG	18	3	2	2	2	1	2	1	1		N1			
GW03-009B-P5	3/3/04	1510	G	GW03-009B-P5	WG	19	3	2	2	2	1	2	1	1		N1			
GW03-011C-P8	3/3/04	1530	G	GW03-011C-P8	WG	18	3	2	2	2	1	2	1	1		N1			
Field QC	3/3/04	—	—	TBD-2-030304	WQ	1	1									TB2			
Field QC	3/3/04	—	—	TBE-2-030304	WQ	1	1									TB2			

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/4/04	0625			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/4/2004	0635

SPECIAL INSTRUCTIONS
SHIPMENT = 5 COOLERS @ 3°C, 4°C, 3°C, 3°C, 4°C (ALL ON ICE) KCK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

438/5988

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATIONS

SAMPLERS (PRINT/SIGNATURE) S. McCabe, M. Nemetti, S. Tivnan, J. Esposito, J. Dopp

LAB Sr. Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: DHL AIRBILL NO.: NA

TESTS: ALKALINITY (CARB; BICARB); IRON; HARDNESS; TOTAL COLIFORM & E. COLI; HET. PLATE COUNT; METHYL HG

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 8oz HDPE; 4oz HDPE $Na_2S_2O_3$; 4oz HDPE $Na_2S_2O_3$; 8oz GLASS

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz HDPE	8oz HDPE	4oz HDPE $Na_2S_2O_3$	4oz HDPE $Na_2S_2O_3$	8oz GLASS				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-014A-P2	3/3/04	1515	G	GW03-014A-P2	WG	—	1	1	1	1						N1			
GW03-012B-P5	3/3/04	1655	G	GW03-012B-P5	WG	—	1	1	1	1						N1			
GW03-012C-P7	3/3/04	1630	G	GW03-012C-P7	WG	—	1	1	1	1						N1			
GW03-009B-P5	3/3/04	1510	G	GW03-009B-P5	WG	—	1	1	1	1	1					N1			
GW03-011C-P8	3/3/04	1530	G	GW03-011C-P8	WG	—	1	1	1	1						N1			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/4/04	635			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/4/2004	0635

SPECIAL INSTRUCTIONS: SHIPMENT = 5 COOLERS @ 3°C, 4°C, 3°C, 3°C, 4°C. (ALL WITH ICE) KEK

Distribution: Original accompanies shipment, copy to coordinator field files

439/5988

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11191932.00006

SITE NAME NYPA - GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. McCaffer, J. Dobner, T. Urban, G. Kuslin

LAB STL-Buffalo

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOC (40ml VOA 4°C)	TOC (40ml VOA HCL)	TCL SVOC (1 L amber 4°C)	TCL PESTICIDE (1 L amber 4°C)	TCL PCB (1 L amber 4°C)	Dioxin 2,3,7,8 TCDD (1 L Amber 4°C)	Metals + Hg (16 oz HDPE w/ HNO3)	TDS, TSS, Cl, SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-011A-P1	3/4/04	0920	G	GW03-011A-P1	WG	18	3	2	2	1	2	2	1	1		N1	—	—	—
GW03-011C-P1	↓	0830	G	GW03-011C-P1	WG	18	3	2	2	1	2	2	1	1		N1	—	—	—
Trip Blank	↓	—	G	TBC1-030404	WQ	1	1								Trip Blank	TB1	—	—	—
GW03-011B-P1	3/4/04	1015	G	GW03-011B-P1	WG	18	3	2	2	1	2	2	1	1	Location is #16	N1	—	—	—
Trip Blank	↓	—	G	TB3DI-030404	WQ	1	1								Trip Blank	TB3	—	—	—
GW03-011A-P2	3/4/04	1400	G	GW03-011A-P2	WG	18	3	2	2	1	2	2	1	1		N1	—	—	—
		~~1300~~																	

TCL VOC | TOC | TCL SVOC | TCL PESTICIDE | TCL PCB | Dioxin 2,3,7,8 TCDD | Metals + Hg | TDS, TSS, Cl, SO4

BOTTLE TYPE AND PRESERVATIVE

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/4/04	1420	[signature] STL	3-4-04	1420
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]		

SPECIAL INSTRUCTIONS: 6.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

444/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117 1932.00006

SITE NAME NYPA GW investigation

SAMPLERS (PRINT/SIGNATURE) S. McCabe, J. Doerr, G. Kisluk, T. Urban

LAB Stl Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: ____

TESTS: Alkalinity, Carbonate, Carb., Total Hardness, Total Coliforms, E. Coli, Hct Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO_3; 4 oz HDPE $Na_2S_2O_3$; 4 oz HDPE $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO_3	4 oz HDPE $Na_2S_2O_3$	4 oz HDPE $Na_2S_2O_3$				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-011A-P1	3/4/04	0920	G	GW03-011A-P1	WG	—	1	1	1	1					N1	—	—	
GW03-011C-P1	3/4/04	0830	G	GW03-011C-P1	WG	—	1	1	1	1					N1	—	—	
GW03-016A-P1	3/4/04	1025	G	GW03-016A-P1	WG	—	1	1	1	1				LOCATION IS #16	N1	—	—	
GW03-011A-P2	3/4/04	1400	G	GW03-011A-P2	WO	—	1	1	1	1								

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/4/04	1420	[signature] STL	3-4-04	14:20
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 6 @ 2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

445/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S TIVNAN, M. NEMETH

LAB STL - BUFFALO

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40mL VOA)	TOC (40mL VOA HCl)	TCL SVOCs (1L AMBER)	TCL PESTICIDES (1L AMBER)	TCL PCBs (1L AMBER)	DIOXIN (23,78-TCDD) (1L AMBER)	METALS/ TOTAL HG (1L 8oz HDPE HNO3)	TDS, TSS, Cl-, SO4 (1L 8oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016C-P7	3/4/03	0830	G	GW03-016C-P7	WG	18	3	2	2	2	1	2	1	1		N	–	–	–
GW03-016C-P8	3/4/03	1130	G	GW03-016C-P8	WG	18	3	2	2	2	1	2	1	1		N	–	–	–
FIELD QC	3/4/03	–	–	TBB-1-030404	WQ	1	1												

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Scott McLee	3/4/03	1420	STL	3-4-03	14:20
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

6 02.0°

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/Col/CR/GCM

446/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. TIVNAN, M. NEMETH

LAB STL - BUFFALO

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: NA

TESTS: ALKALINITY (LAB: BLEACH), TOTAL HARDNESS, TOT. COLIFORM, E. COLI, HET. PLATE COUNT, NITRATE/NITRITE

BOTTLE TYPE AND PRESERVATIVE: 8 oz HDPE; 4 oz HDPE HNO3; 4 oz HDPE Na2S2O3; 4 oz HDPE Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8 oz HDPE	4 oz HDPE HNO3	4 oz HDPE Na2S2O3	4 oz HDPE Na2S2O3					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-0116C-P7	3/4/04	0830	G	GW03-0116C-P7	WG	—	1	1	1	1									
GW03-0116C-P8	3/4/04	1130	G	GW03-0116C-P8	WG	—	1	1	1	1									

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/4/04	1420	[signature] STL	3-4-04	1420
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 6 92.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

447/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA

SAMPLERS (PRINT/SIGNATURE) T. Urban / G. Kislok / S. McCabe / J. Doerr / T. Bannier / R. Polacek

LAB STL Buffalo

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: Drop off AIRBILL NO.: N/A

TESTS: TCL VOCs; TDC; TCL SVOCs; TCL Pesticides; TCL PCBs; 2,3,7,8-TCDD; Total Metals + Hg; TSS, TDS, Cl-, SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCL; 1 L Amber Glass; 1 L Amber Glass; 1 L Amber Glass; 1 L Amber Glass; 16 oz HDPE HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 mL VOA	40 mL VOA HCL	1 L Amber Glass	1 L Amber Glass	1 L Amber Glass	1 L Amber Glass	16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-011A-P3	3-4-04 ~~1400~~	1420	G	GW03-011A-P3	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC	3-4-04	—	—	TBC2-030404	WQ	1	1	–	–	–	–	–	–	–		TB2	–	–	–
GW03-012A-P3	3/4/04	1640	G	GW03-012A-P3	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	3/4/04	1300	–	TBA1-030404	WQ	1	1									TB1	—	—	—
GW03-016B-P4	3/4/04	1420	G	GW03-016B-P4	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-015B-P4	3/4/04	1545	G	GW03-015B-P4	WG	18	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC	3/4/04	—	—	TBB2-030404	WQ	1	1									TB2			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/5/04	0625			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/5/2004	0625

SPECIAL INSTRUCTIONS: Samples Shipped on ICE. Contact Jim Lehnen w/ Any Questions 856-5636. Shipment = 4 coolers @ 3°C, 3°C, 4°C, 3°C. (All on ice)

Distribution: Original accompanies shipment, copy to coordinator field files

448/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11172932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kisluk / T. Urban / S. McCabe / J. Doan / T. Bernier / R. Pekarski

LAB STL Buffalo

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS: Alkalinity Total + Bicarb; Total Hardness; Total Coliform & E-Coli; Total Heterotrophic Plate Ct.

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 8oz HDPE HNO3; 8oz HDPE NaOH; 8oz HDPE NaOH

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz HDPE	8oz HDPE HNO3	8oz HDPE NaOH	8oz HDPE NaOH	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-011A-P3	3-4-04	1420	G	GW03-011A-P3	WG	—	1	1	1	1		NI	—	—	—
GW03-012A-P3	3/4/04	1640	G	GW03-012A-P3	WG	—	1	1	1	1		NI	—	—	—
GW03-016B-P4	3/4/04	1420	G	GW03-016B-P4	WG	—	1	1	1	1		NI	—	—	—
GW03-015B-P4	3/4/04	1545	G	GW03-015B-P4	WG	—	1	1	1	1		NI	—	—	—
				~~FBB-2~~ NW.											

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/5/04	1625			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/5/2004	0625

SPECIAL INSTRUCTIONS: Samples shipped on ice. Contact Jim Lehnen w/ any questions 856-5636.

Distribution: Original accompanies shipment, copy to coordinator field files

SHIPMENT = 4 COOLERS @ 2°C 3°C 4°C 3°C

449/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA - GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S McCABE, J Doerr

LAB STL - BUFFALO

COOLER 1 of

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOC (40ml VOA 4°C)	TOC (40ml VOA HCL)	TCL SVOC (1L AMBER 4°C)	TCL PESTICIDES (1L AMBER 4°C)	TCL PCB (1L AMBER 4°C)	Dioxin 2,3,7,8 TCDD (1L AMBER 4°C)	METALS (16oz HDPE w/ HNO3)	TOTAL + Hg (TDS, TSS, Cl, SO4) (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P1	3/5/04	1035	G	GW03-015A-P1	WG	18	3	2	2	1	2	2	1	1		N1			
Field QC		—	G	TBA1-030504	WQ	1	1									TB1			
GW03-009A-P1		1020	G	GW03-009A-P1	WG	19	3	2	2	1	2	2	1	1					
GW03-009A-P1		~~1020~~ 1050 TB	G	GW03-009A-P1 MS	WG	19	3	2	2	1	2	2	1	1	MS/MSD	MS1			
GW03-009A-P1		~~1020~~ 1115 TB	G	GW03-009A-P1 MSD	WG	19	3	2	2	1	2	2	1	1	MATRIX SPIKE DUP.	SD1			
GW03-016B-P5	3/5/04	0945	G	GW03-016B-P5	WG	18	3	2	2	1	2	2	1	1		N1			
Field QC	3/5/04	—	—	TBB-1-030504	WQ	1	1												
GW03-016A-P2	3/5/04	1215	G	GW03-016A-P2	WG	18	3	2	2	1	2	2	1	1		N1			
~~FIELD QC~~	~~↓~~	~~1020~~	~~G~~	~~GW03-009A-P1~~	~~WQ~~	~~1~~	~~1~~								~~TRIP BLANK~~	~~TB1~~			
FIELD QC	3/5/04	—	—	TBD1-030504	WQ	1	1								TRIP BLANK	TB3			

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/5/04	1400	[signature] STL	3-5-04	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: SAMPLES SHIPPED ON ICE. CONTACT JIM LEHNEN w/ ANY QUESTIONS 856-5636. 6.3°C

Distribution: Original accompanies shipment, copy to coordinator field files

450/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA - GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) S. MCCABE, J DOBER

LAB STL - BUFFALO

COOLER 1 of

PAGE 2 of 2

DELIVERY SERVICE: COURIER AIRBILL NO.: —

TESTS: Alkalinity Total + Ecard; Total Phosphorus; Total Cyanides; E. Coli; Heat Plate Count; Mercury

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO3; 4oz HDPE; 4oz HDPE NaOH; 8oz glass

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE HNO3	4oz HDPE	4oz HDPE NaOH	8oz glass	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P1	3/5/04	1035	G	GW03-015A-P1	WG	—	1	1	1	1			N1	—	—	
GW03-009A-P1	3/5/04	1020	G	GW03-009A-P1	WG	—	1	1	1	1	1		N1	—	—	
GW03-009A-P1	3/5/04	1030 TB	G	GW03-009A-P1 MS.	WG	—	1	1	1	1	1	MATRIX SPIKE	MS1	—	—	
GW03-009A-P1	3/5/04	1115 TB	G	GW03-009A-P1 MSD	WG	—	1	1	1	1	1	MATRIX SPIKE DUP.	SD1	—	—	
GW03-016B-P5	3/5/04	0945	G	GW03-016B-P5	WG	—	1	1	1	1						
GW03-016A-P2	3/5/04	1215	G	GW03-016A-P2	WG	—	1	1	1	1			N1	—	—	

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/5/04	1900	[signature] STL	3/5/04	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: SAMPLES SHIPPED ON ICE. CONTACT JIM LEHMAN w/ ANY QUESTIONS 856-5636.

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

451/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA - GW INVESTIGATION

SAMPLERS (PRINT/SIGNATURE) J. Dower, S. McCabe, M. Neneth, D. Cofield

LAB STL-BUFFALO

COOLER 1, 2, 3

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS: TCL VOC; TOC; TCL SVOC; TCL Pesticides; TCL PCB's; Dioxin (8270 TCDD); Mercury/Mercury Hg; TKN/TSS; Cl-/SO4

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40ml VOA 4°C	40ml VOA HCL	1-L Amber 4°C	1-L Amber 4°C	1-L Amber 4°C	1-L Amber 4°C	16oz HDPE HNO3	16oz HDPE 4°C	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015C-P7	3/8/04	1135	G	GW03-015C-P7	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-015B-P5	3/8/04	1130	G	GW03-015B-P5	WG	18	3	2	2	2	1	2	1	1		N1	-	-	-
FIELD QC	3/8/04	—	-	TBB-1-030804	WQ	1	1								GW03-015B	TB1	-	-	-
GW03-009A-P2	↓	1015	G	GW03-009A-P2	WG	19	3	2	2	2	1	2	1	1		N1	-	-	-
FIELD QC	3/8/04	—	—	TBD1-030804	WQ	1	1								GW03-009	TB1	-	-	-
FIELD QC	3/8/04	—	-	TBA1-030804	WQ	1	1								GW03-015C	TB1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/3/04	14:00	STL	3-3-04	14:00
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS: SAMPLES SHIPPED ON ICE. CONTACT Jim Lehrer w/ any QUESTIONS 856-5636. @ 2-0°C

Distribution: Original accompanies shipment, copy to coordinator field files

452/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA-GW Investigation

SAMPLERS (PRINT/SIGNATURE) S. McCabe, J. Doherty, M. Nemeth, D. Cofield

LAB STL-Buffalo

COOLER 1, 2, 3

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.:

TESTS: Alkalinity (Carb. Bicarb.); Total Hardness; Total Coliform; E. Coli; Hex Plate Count; Methyl Hg

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO_3; 40z HDPE $NaOH$; 4oz HDPE $NaOH$; 4oz HDPE $NaOH$; 12 oz HDPE H_2SO_4

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	8oz HDPE	4oz HDPE HNO_3	40z HDPE	4oz HDPE $NaOH$	12 oz HDPE H_2SO_4				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-0156-P7	3/8/04	1135	G	GW03-0156-P7	WG	—	1	1	1	1						N1	—	—	—
GW03-0158-P5	3/8/04	1130	G	GW03-0158-P5	WG	—	1	1	1	1						N1	-	-	-
GW03-0094-P2	↓	1015	G	GW03-0094-P2	WG	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES				
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE	

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Melissa	3/8/04	14:00	STL	3-08-04	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
Samples shipped on ice
Contact Jim Lehman w/ any Question 856-5636
1@2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

453/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932 ~~11171307~~.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kistuk, T. Urban

LAB STL-Buffalo

COOLER 1 of 1

PAGE 1 of 1

DELIVERY SERVICE: STL Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOCs (1L Amber glass)	TCL PESTICIDES (1L Amber Glass)	TCL PCBs (1L Amber Glass)	2,3,7,8-TCDD (1L Amber Glass)	Total Metals incl Hg (16 oz HDPE HNO3)	TSS TDS Cl- SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03 016A-P3	3/8/04	1230	G	GW03-016A-P3	WO	18	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	1	—	—	TBC1-030804	WQ	1	1	—	—	—	—	—	—	—		TB1	—	—	—

MATRIX CODES

AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES

TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3-8-04	14:10	[signature] STL	3-8-04	14:10
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 4 @ 2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

454/5890

URSF 0750/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban, G. Kiziuk

LAB STL-Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: STL-Courier AIRBILL NO.: —

TESTS: Total Hardness; Alkalinity; Total + Bicarbonate; Total Coliform - P-Coli; Total Met. Plate Count

BOTTLE TYPE AND PRESERVATIVE: 6 oz HDPE HNO3; 500 HDPE; 500 HDPE Neat D; 500 HDPE Neat C, O2

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	6 oz HDPE HNO3	500 HDPE	500 HDPE Neat D	500 HDPE Neat C, O2					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-016A-P3	3-8-04	1230	G	GW03-016A-P3	WG	1	1	1	1	1						N1			

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3-8-04	14:10	STL	3-8-04	14:10
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

4°C ± 2°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

455/5890

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Bremcier / R. Pelarski, S. McCabe / G. Kislak, J. Drew / S. Tivizan

LAB STL - Buffalo

COOLER 1,2,3,4,5,6 of

PAGE 1 of 2

DELIVERY SERVICE: STL Pick-up AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOCs (1 L Amber glass)	TCL Pesticides	TCL PCBs	2,3,7,8-TCDD	Total Metals inc. Hg (16 oz HDPE HNO3)	TSS TDS SO4 Cl (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-001	3/9/04	0900	G	SW03-001	WS	19	3	2	2	2	1	2	1	1		NI	—	—	—
SW03-003	3/9/04	1000	↓	SW03-003	WS	19	3	2	2	2	1	2	1	1		NI	—	—	—
SW03-002	↓	1015	↓	SW03-002	WS	19	3	2	2	2	1	2	1	1		NI	—	—	—
Field QC	↓	—	—	TBC1-030904	WQ	1	1	—	—	—	—	—	—	—		TB1	—	—	—
SW03-002	↓	1015	G	SW03-002 MS	WS	19	3	2	2	2	1	2	1	1		MS1	—	—	—
↓	↓	↓	↓	SW03-002MSD	WS	18	3	2	2	2	1	2	1	1		SD1	—	—	—
GW03-009A-P3	↓	1030	↓	GW03-009A-P3	WG	19	3	2	2	2	1	2	1	1		NI	—	—	—
Field QC	↓	—	—	TBD1-030904	WQ	1	1	—	—	—	—	—	—	—		TB2	—	—	—
GW03-015A-P3	↓	0845	G	GW03-015A-P3	WG	14	3	2	2	—	1	—	1	1		NI	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/9/04	1355	[signature] STL	3-9-04	13:55
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment; copy to coordinator field files

7@ 2.0°C

304/4858

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Buermeier / R. Pekarski, S. McCabe / G. Kisluk, J. Drew / S. Tuzzeo

DELIVERY SERVICE: TL-Pick-up AIRBILL NO.: —

LAB STL - Buffalo

COOLER 1,2,3,4,5,6 of

PAGE 1 of 2

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; 2,3,7,8-TCDD; Total Metals inc. Hg; TSS TDS SO4 Cl

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1L Amber glass; →; 16 oz HDPE HNO3; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L Amber glass	→			16 oz HDPE HNO3	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-004	3/9/04	0900	G	SW03-004	WS	19	3	2	2	2	1	2	1	1		N1	–	–	–
SW03-003	3/9/04	1000	↓	SW03-003	WS	19	3	2	2	2	1	2	1	1		N1	–	–	–
SW03-002	↓	1015	↓	SW03-002	WS	19	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC	↓	—	—	TB01-030904	WQ	1	1	–	–	–	–	–	–	–		TB1	–	–	–
SW03-002	↓	1015	G	SW03-002 MS	WS	19	3	2	2	2	1	2	1	1		MS1	–	–	–
↓	↓	↓	↓	SW03-002MSD	WS	18	3	2	2	2	1	2	1	1		SD1	–	–	–
GW03-009A-P3	↓	1030	↓	GW03-009A-P3	WG	19	3	2	2	2	1	2	1	1		N1	–	–	–
Field QC	↓	—	—	TB01-030904	WQ	1	1	–	–	–	–	–	–	–		TB2	–	–	–
GW03-015A-P3	↓	0845	G	GW03-015A-P3	WG	14	3	2	2	–	1	–	1	1		N1	–	–	–

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3/9/04	1355	STL	3-9-04	13:55
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

7@ 2.0°C

305/4858

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kistle / S. McCabe T. Burmeister / R. Polanski J. Doerr / B. Tinsen M. Nemeth / Oldfield

LAB STL-Buffalo

COOLER 1 of 9

PAGE 1 of 2

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; 2,3,7,8-TCDD; Total Metals + Hg; TDS, TSS, Cl⁻, SO₄

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1L Amber glass; 16oz HDPE HNO₃; 16oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L Amber glass				16oz HDPE HNO₃	16oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-006	3/9/04	1300	G	SW03-006	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-007	↓	1430	↓	SW03-007	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-011	↓	1345	↓	SW03-011	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	↓	—	—	TBC2-030904	WQ	1	1	—	—	—	—	—	—	—		TB1	—	—	—
SW03-008	↓	1430	G	SW03-008	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-009	↓	1330	↓	SW03-009	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-010	↓	1300	↓	SW03-010	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	3/9/04	—	—	TBB1-030904	WQ	1	1									N1	—	—	—
GW03-015B-P6	3/9/04	1530	G	GW03-015B-P6	WG	18	3	2	2	2	1	2	1	1		TB1	—	—	—
Field QC	↓	—	—	TBD2-030904	WQ	1	1	—	—	—	—	—	—	—		N1	—	—	—
Field QC		1600	G	RB-Tubing	WQ	19	3	2	2	2	1	2	1	1		TB3	—	—	
GW03-016B-P6	3/9/04	1645	G	GW03-016B-P6	WG	18	3	2	2	2	1	2	1	1		RB1	—	—	—
Field QC	3/9/04	—	G	TBA1-030904	WQ	1	1									N1			
																TB1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/10/04	0635			
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME
			[signature]	3/10/2004	0635

SPECIAL INSTRUCTIONS: SHIPMENT = 9 COOLERS @ 4°C, 4°C, 3°C, 3°C, 2°C, 4°C, 5°C, 4°C, 3°C (ALL PACKED WITH ICE) KEK

Distribution: Original accompanies shipment, copy to coordinator field files

2/1 OF 1/CofCR/GCM

306/4858

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kistler / S. McCabe T. Burmeister / P. Pekarski D. Cofield / M. Nemeth J. Doerr / S. Tiernan

LAB STL - Buffalo

COOLER 1 of 9

PAGE 2 of 2

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS: Alkalinity Total + Bicarb; Total HARDNESS; Total Coliform + E. coli; Total Het Plate Ct.; Fecal Coliform; Monomethyl Mercury

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 8oz HDPE HNO_3; 8oz HDPE $NaSO_4$; 8oz HDPE $NaSO_4$ →; 8oz glass zero headspace

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	8oz HDPE HNO_3	8oz HDPE $NaSO_4$	8oz HDPE $NaSO_4$ →	8oz glass zero headspace			REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-006	3/9/04	1300	G	SW03-006	WS	~~19~~	1	1	1	1 →	1				N1	—	—	—
SW03-011	↓	1345	↓	SW03-~~007~~ 011	WS	✓	1	1	1	1 →	1				N1	—	—	—
SW03-007	↓	1430	↓	SW03-~~011~~ 007	WS	✓	1	1	1	1 →	1				N1	—	—	—
SW03-008	↓	1430	↓	SW03-008	WS	✓	1	1	1	1 →	1				N1	—	—	—
SW03-009	↓	1330	↓	SW03-009	WS	✓	1	1	1	1 →	1				N1	—	—	—
SW03-010	↓	1300	↓	SW03-010	WS	✓	1	1	1	1 →	1				N1	—	—	—
GW03-015B-P6	3/9/04	1530	G	GW03-015B-P6	WG	—	1	1	1	1	—	—	—	—	N1	—	—	—
				~~FB01-030904~~ MN	WQ										N1	—	—	—
Field QC	3/9/04	1600	G	RB-Tubing	WQ	—	1	1	1	1	—	1	—	—				
GW03-016B-P6	3/9/04	1645	G	GW03-016B-P6	WG	—	1	1	1	1	—	—	—	—	CS1	—	—	—
															M	—	—	—

MATRIX CODES	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/10/04	0635			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/10/2004	0635

SPECIAL INSTRUCTIONS
Fecal Coliform in surface waters only.
SHIPMENT = 9 COOLERS @
4°C, 4°C, 3°C, 3°C, 2°C, 4°C, 5°C, 4°C, 3°C.
(ALL PACKED WITH ICE)
KEV

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

307/4858

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME N/A GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kisilak/S McCabe/S. Travin/E. Polanski/J. Doerr

LAB STL Buffalo

COOLER 1,2,3,4 of 4

PAGE 1 of 1

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS: TCL VOCs; TOC; TCL Pesticides, TCL SVOCs, TCL PCBs, 2,3,7,8-TCDD; Metals + Hg; Total Hardness; TSS, TDS, Cl, SO4; Alkalinity - Total; Methylmercury; Fecal Coliform; Wet Plate Ct Total Coliform Bacteria

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1 L Amber glass; 1 L Amber glass; 16 oz HDPE HNO3; 8 oz HDPE HNO3; 16 oz HDPE; 8 oz HDPE; 8 oz Glass Large Mouth; 8 oz HDPE NaOH; 8 oz HDPE NaOH/Zn Acetate

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1 L Amber glass	1 L Amber glass	16 oz HDPE HNO3	8 oz HDPE HNO3	16 oz HDPE	8 oz HDPE	8 oz Glass Large Mouth	8 oz HDPE NaOH	8 oz HDPE NaOH/Zn Acetate	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-005A-P1	3-10-04	1130	G	GW03-005A - P1	WG	19	3	2	5	2	1	1	1	1	1	-	2		N1	-	-	-
↓	↓	↓	↓	↓ MS	↓	19	3	2	5	2	1	1	1	1	1	-	2		MS1	-	-	-
↓	↓	↓	↓	↓ MSD	↓	19	3	2	5	2	1	1	1	1	1	-	2		SD1	-	-	-
GW03-015A-P2	↓	0845	G	GW03-015A - P2	WG	18	3	2	5	2	1	1	1	1	-	-	2		N1	-	-	-
Field QC	↓	—	-	TBA1-031004	WQ	1	1	—	-	-	-	-	-	-	-	-	—		TB1	-	-	-
SW03-004	↓	0830	G	SW03-004	WS	2	-	-	-	-	-	-	-	-	-	1	1		N1	-	-	-

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3-10-04	1455		03/10/04	1455
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: 4 @ 2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) G Kislok, C. Taylor

LAB STL-Buffalo

COOLER 1 of 1

PAGE 1 of 2

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOA (40 mL VOA)	TOC (40 mL VOA HCl)	TCL SVOA (1L Amber glass)	TCL PESTICIDES	TCL PCBs	2,3,7,8-TCDD	Total Metals + Hg (16 oz HDPE HNO3)	TDS, TSS, Cl, SO4 (16 oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-005A-P2	3-11-04	0910	G	GW03-005A-P2	WG	19	3	2	2	2	1	2	1	1		Ni	—	—	—
Field QC	↓	—	—	TBC1-031104	WQ	1	1	—	—	—	—	—	—	—		TBi	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3-11-04	1122		03/11/04	1125
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

4.0°C

URSF-075C/1 OF 1/CofCR/GCM

309/4858

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kislak, C. Taylor

LAB SIL - Buffalo

COOLER 1 of 1

PAGE 2 of 2

DELIVERY SERVICE: Drop off AIRBILL NO.: —

TESTS

BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Total Hardness	Aluminum, Total + Bicarb	Total Coliform e-coli	Total Hef Plate Ct.	monomethyl mercury				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
							8oz HDPE HNO_3	8oz HDPE	2oz HDPE $Na_2S_2O_3$	8oz HDPE $Na_2S_2O_3$	1Loz glass no preservative								
GW03-005A-P2	3-11-04	0910	G	GW03-005A-P2	WG	—	1	1	1	1	1					N	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES			
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3-11-04	1122		03/11/04	1125
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

4.0°C

URSF-075C/1 OF 1/CofCR/GCM

310/4858

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METHODS SUMMARY

Job#: A04-1468,A04-1469,A04-1471,A04-1480,A04-1481,A04-1505, A04-1506,A04-1508,A04-1528,A04-1531,A04-1533,A04-1550, A04-1560,A04-1573,A04-1574,A04-1584,A04-1587,A04-1607

STL Project#: NY3A9122
SDG#: 022402
Site Name: NEW YORK POWER AUTHORITY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8290 - TCL DIOXINS & FURANS	SW8463 8290
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Mercury - Total	SW8463 7470
Potassium - Total	SW8463 6010
Sodium - Total	SW8463 6010
Bicarbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0
E Coli	SM18 9221
Sulfate	MCAWW 300.0
Total Alkalinity	MCAWW 310.1
Total Bacteria Coliform	SM18 9222B
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2
Total Organic Carbon	MCAWW 415.1
Total Suspended Solids	MCAWW 160.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

S "Standard Methods for the Examination of Water and Wastewater", 18th Edition

"Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

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NON-CONFORMANCE SUMMARY

Job#: A04-1468,A04-1469,A04-1471,A04-1480,A04-1481,A04-1505,
A04-1506,A04-1508,A04-1528,A04-1531,A04-1533,A04-1550,
A04-1560,A04-1573,A04-1574,A04-1584,A04-1587,A04-1607

STL Project#: NY3A9122
SDG#: 022402
Site Name: NEW YORK POWER AUTHORITY

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-1468
Sample Cooler(s) were received at the following temperature(s); 3 @ 6.0 °C
All samples were received in good condition.
A04-1469
Sample Cooler(s) were received at the following temperature(s); 3 @ 6.0 °C
All samples were received in good condition.
A04-1471
Sample Cooler(s) were received at the following temperature(s); 3 @ 6.0 °C
All samples were received in good condition.
A04-1480
Sample Cooler(s) were received at the following temperature(s); 5.0 °C
All samples were received in good condition.
A04-1481
Sample Cooler(s) were received at the following temperature(s); 5.0 °C
All samples were received in good condition.
A04-1505
Sample Cooler(s) were received at the following temperature(s); 4 @ 4.0 °C
Samples GW-03-013-P2 and it's associated MS/SD were listed on the Chain-of-Custody (COC) using that ID number, however, the bottle labels indicated the sample ID was GW-03-013A-P2. The samples were identified based on the bottles per the client's request.

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A04-1506
Sample Cooler(s) were received at the following temperature(s); 4 @ 4.0 °C
Sample GW-03-013-P2 and it's associated MS/SD were listed on the Chain-of-Custody (COC) using that ID number, however, the bottle labels indicated the sample ID was GW-03-013A-P2. The samples were identified using the COC.
A04-1508
Sample Cooler(s) were received at the following temperature(s); 4 @ 4.0 °C
Sample GW-03-013-P2 and it's associated MS/SD were listed on the Chain-of-Custody (COC) using that ID number, however, the bottle labels indicated the sample ID was GW-03-013A-P2. The samples were identified using the COC.
A04-1528
Sample Cooler(s) were received at the following temperature(s); 5.0 °C
All samples were received in good condition.
A04-1531
Sample Cooler(s) were received at the following temperature(s); 2@4.0 °C
All samples were received in good condition.
A04-1533
Sample Cooler(s) were received at the following temperature(s); 2@4.0 °C
The sample identification number of GW03-010-P1 was listed on the Chain-of-Custody, however the sample bottles were labeled as GW03-010A-P1. The client was notified and verified that the correct ID was GW03-010A-P1 and the analysis proceeded.
A04-1550
Sample Cooler(s) were received at the following temperature(s); 2@4.0 °C
All samples were received in good condition.
A04-1560
Sample Cooler(s) were received at the following temperature(s); 6@2.0 °C
All samples were received in good condition.
A04-1573
Sample Cooler(s) were received at the following temperature(s); 6 @ 2.0 °C
All samples were received in good condition.
A04-1574
Sample Cooler(s) were received at the following temperature(s); 6 @ 2.0 °C
All samples were received in good condition.
A04-1584
Sample Cooler(s) were received at the following temperature(s); 5@3.0 °C
All samples were received in good condition.
A04-1587
Sample Cooler(s) were received at the following temperature(s); 5@3.0 °C
All samples were received in good condition.
A04-1607
Sample Cooler(s) were received at the following temperature(s); 5 @ 3.0 °C
All samples were received in good condition.

GC/MS Volatile Data

All volatile samples exhibited a pH of 7 at the time of analysis. The analysis was performed within 7 days of sampling, therefore there is no impact on data useability.

The analyte Methylene Chloride was detected in the Trip Blank, TBC1-022404, at a level below the project established reporting limits.
Methylene Chloride was not detected in any of the associated samples, therefore there is no impact on data usability.

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The analyte Carbon Disulfide was detected in the Trip Blank, TBC2-022404, at a level below the project established reporting limits. Carbon Disulfide was not detected in any of the associated samples, therefore there is no impact on data usability.

Initial calibration standard curve A4I0000115-1 exhibited the %RSD of the compound Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 7.07%.

Initial calibration standard curve A4I0000107-1 exhibited the %RSD of the compounds Bromomethane, Methylene Chloride and Acetone as greater than 15%. However, the mean RSD of all compounds is 6.80%.

GC/MS Semivolatile Data

The analyte Di-n-octyl Phthalate was detected in the Method Blank A4B0613903 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

Linear regression was used to calibrate analytes that were greater than 15% RSD in the initial calibrations A4I0000138 and A4I0000139.

The recovery of surrogates 2,4,6-Tribromophenol and 2-Fluorobiphenyl were above control limits for the Matrix Spike Blank A4B0626401. Based on US EPA CLP National Functional Guidelines for Data Review, if two or more surrogates in either fraction (base/neutral or acid fraction) have a recovery greater than the upper control limit, all positive detections should be considered estimated and biased high in that fraction (BN or A). However, there were no detections for analytes associated with these surrogates. No corrective action was taken.

The recoveries of most spiking compounds were above laboratory derived quality control limits in the Matrix Spike Blank A4B0626401. As per the client, no corrective action was taken due to no detections in the samples.

Dioxins and Furans were subcontracted to STL Knoxville. All data is included in this report as Appendix A.

GC Extractable Data

For method 8082, several calibration verifications analyzed on 03/01/04 demonstrated a slightly decreased instrument response, >15% difference, for the surrogate Decachlorobiphenyl. The theoretical consequence of this would be a low bias in the calculated surrogate recoveries. The associated sample surrogate recoveries are within the quality control limits. In the technical judgement of the laboratory, the sample data has not been impacted and no corrective action is required.

For method 8081 and 8082, the extracts for several samples required treatment with Copper prior to analysis due to the presence of elemental Sulfur. This is indicated for field samples and the associated batch quality control extracts in the injection logbook and on the individual report Form-1. The raw run data for any untreated extracts has been included in the raw quality control section of the data package.

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For method 8081, Heptachlor exhibited a percent difference greater than 15% from the expected amount in the ending continuing calibration verification analyzed on 03/11/04 at 09:51. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant with quality control limits. No corrective action was required.

For method 8081, the recovery of surrogate Decachlorobiphenyl in samples GW03-013A-P2, GW03-014B-P6, and GW03-014B-P5 and the associated Method Blank (A4B0621302) is biased high and is outside of established quality control limits. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

Metals Data

The recovery of sample GW03-013-P2 Matrix Spike exhibited results below the quality control limits for Sodium. The sample result is more than four times greater than the spike added. The LFB is acceptable.

Wet Chemistry Data

The value obtained for Total Hardness on sample GW03-017C-P7 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for TDS on sample GW03-017C-P7 is inconsistent with historical trends. The value was confirmed by the conductivity ratio.

The value obtained for Chloride on sample GW03-017B-P4 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for Total Hardness on sample GW03-017B-P5 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

Total Plate Count, E. Coli and Total Coliform were subcontracted to ACTS Testing Laboratory. All data is included in this report as Appendix A.

The value obtained for TDS on sample GW03-014C-P7 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

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The values obtained for Total Hardness on samples GW03-001A-P1, GW03-002A-P1, and GW03-014C-P7 is inconsistent with historical trends. Reanalysis was performed and the values were confirmed. Only the result from the original analysis is provided in this data package.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000396

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022402

Lab File ID: K6634 BFB Injection Date: 02/27/2004

Instrument ID: I50K BFB Injection Time: 09:48

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.2		
75	30.0 - 60.0% of mass 95	47.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.3		
173	Less than 2.0% of mass 174	0.1	(0.1)	1
174	50 - 120 % of mass 95	63.2		
175	5.0 - 9.0% of mass 174	4.3	(6.8)	1
176	95.0 - 101.0% of mass 174	61.6	(97.4)	1
177	5.0 - 9.0% of mass 176	3.4	(5.6)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000532-1	K6635.RR	02/27/2004	10:22
2	MSB81	A4157311	K6637.RR	02/27/2004	12:03
3	VBLK81	A4157310	K6638.RR	02/27/2004	12:37
4	GW03-007B-P5	A4157301	K6642.RR	02/27/2004	14:55
5	GW03-017C-P9	A4157302	K6643.RR	02/27/2004	15:30
6	GW03-017B-P6	A4157303	K6644.RR	02/27/2004	16:04
7	GW03-007B-P4	A4157304	K6645.RR	02/27/2004	16:38
8	GW03-013A-P1	A4157305	K6646.RR	02/27/2004	17:12
9	GW03-013A-P3	A4157306	K6647.RR	02/27/2004	17:46
10	TBD-1-2-26-04	A4157307	K6648.RR	02/27/2004	18:20
11	TBC1-022604	A4157308	K6649.RR	02/27/2004	18:54
12	TBA1-022604	A4157309	K6650.RR	02/27/2004	19:29

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000532-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: K6635.RR Calibration Date: 02/27/2004 Time: 10:22

ntrument ID: I50K Init. Calib. Date(s): 02/19/2004 02/19/2004

eated Purge (Y/N): N Init. Calib. Times: 10:05 13:13

C Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0260	0.0192	0.0100	26.200	100.00
Benzene	1.2040	0.9995	0.0100	17.000	100.00
Bromodichloromethane	0.7080	0.6571	0.0100	7.200	100.00
Bromoform	0.5040	0.4507	0.1000	10.600	100.00
Bromomethane	0.3740	0.3310	0.0100	11.500	100.00
2-Butanone	0.0490	0.0329	0.0100	32.800	100.00
Methyl acetate	0.1230	0.0960	0.0100	22.000	100.00
Cyclohexane	0.6530	0.4827	0.0100	26.100	100.00
Methylcyclohexane	0.5800	0.4765	0.0100	17.800	100.00
Carbon Disulfide	1.0220	0.8672	0.0100	15.100	100.00
Carbon Tetrachloride	0.6240	0.6067	0.0100	2.800	100.00
Chlorobenzene	1.2080	1.1050	0.3000	8.500	100.00
Chloroethane	0.2560	0.2548	0.0100	0.500	100.00
Chloroform	0.8430	0.7559	0.0100	10.300	20.00
Chloromethane	0.3660	0.2844	0.1000	22.300	100.00
Dibromochloromethane	0.5640	0.5852	0.0100	-3.800	100.00
1,2-Dibromo-3-chloropropane	0.1130	0.1010	0.0100	10.600	100.00
1,2-Dibromoethane	0.4420	0.3994	0.0100	9.600	100.00
1,2-Dichlorobenzene	1.4690	1.2990	0.0100	11.600	100.00
1,3-Dichlorobenzene	1.7870	1.5469	0.0100	13.400	100.00
1,4-Dichlorobenzene	1.8470	1.6481	0.0100	10.800	100.00
Dichlorodifluoromethane	0.5480	0.4387	0.0100	19.900	100.00
1,1-Dichloroethane	0.8530	0.7322	0.1000	14.200	100.00
1,2-Dichloroethane	0.3910	0.3540	0.0100	9.500	100.00
1,1-Dichloroethene	0.3990	0.3575	0.0100	10.400	100.00
cis-1,2-Dichloroethene	0.4490	0.3846	0.0100	14.300	100.00
trans-1,2-Dichloroethene	0.4390	0.3987	0.0100	9.200	100.00
1,2-Dichloropropane	0.4920	0.4011	0.0100	18.500	20.00
cis-1,3-Dichloropropene	0.5970	0.5055	0.0100	15.300	100.00
trans-1,3-Dichloropropene	0.5210	0.4797	0.0100	7.900	100.00
Ethylbenzene	1.9970	1.8239	0.0100	8.700	20.00
2-Hexanone	0.1320	0.0921	0.0100	30.200	100.00
Isopropylbenzene	3.0800	2.6794	0.0100	13.000	100.00
Methylene chloride	0.3870	0.3188	0.0100	17.600	100.00
4-Methyl-2-pentanone	0.2080	0.1486	0.0100	28.600	100.00
Styrene	1.1040	1.0354	0.0100	6.200	100.00
1,1,2,2-Tetrachloroethane	0.6300	0.5250	0.3000	16.700	100.00
Tetrachloroethene	0.8640	0.8021	0.0100	7.200	100.00
Toluene	0.9940	0.9094	0.0100	8.500	20.00

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000532-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: K6635.RR Calibration Date: 02/27/2004 Time: 10:22

ntrument ID: I50K Init. Calib. Date(s): 02/19/2004 02/19/2004

eated Purge (Y/N): N Init. Calib. Times: 10:05 13:13

C Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.2770	0.9999	0.0100	21.700	100.00
1,1,1-Trichloroethane	0.7310	0.7381	0.0100	-1.000	100.00
1,1,2-Trichloroethane	0.3090	0.2704	0.0100	12.500	100.00
Trichloroethene	0.5550	0.4762	0.0100	14.200	100.00
Trichlorofluoromethane	0.8860	0.8569	0.0100	3.300	100.00
Vinyl chloride	0.4050	0.3526	0.0100	12.900	20.00
Total Xylenes	0.7200	0.6732	0.0100	6.500	100.00
Methyl tert butyl ether	0.5570	0.4783	0.0100	14.100	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.7890	0.7035	0.0100	10.800	100.00
==========					
1,2-Dichloroethane-D4	0.3010	0.2975	0.0100	1.200	100.00
Toluene-D8	1.3060	1.3324	0.0100	-2.000	100.00
p-Bromofluorobenzene	0.6320	0.5918	0.0100	6.400	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000374

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022402

Lab File ID: M8185 BFB Injection Date: 02/25/2004

Instrument ID: I50M BFB Injection Time: 08:28

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.8		
75	30.0 - 60.0% of mass 95	46.1		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.9		
173	Less than 2.0% of mass 174	0.2	(0.3)	1
174	50 - 120 % of mass 95	82.0		
175	5.0 - 9.0% of mass 174	5.6	(6.8)	1
176	95.0 - 101.0% of mass 174	82.3	(100.4)	1
177	5.0 - 9.0% of mass 176	4.8	(5.8)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000507-1	M8186.RR	02/25/2004	08:55
2	MSB99	A4146906	M8188.RR	02/25/2004	10:03
3	VBLK99	A4146905	M8189.RR	02/25/2004	10:31
4	TBC1-022404	A4146904	M8190.RR	02/25/2004	11:00
5	GW03-017C-P7	A4146901	M8196.RR	02/25/2004	13:54
6	GW03-017B-P4	A4146902	M8197.RR	02/25/2004	14:23
7	GW03-017A-P1	A4146903	M8198.RR	02/25/2004	14:52

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000507-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8186.RR Calibration Date: 02/25/2004 Time: 08:55

ıtrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0330	0.0299	0.0100	9.400	100.00
Benzene	1.3830	1.3170	0.0100	4.800	100.00
Bromodichloromethane	0.3180	0.2908	0.0100	8.600	100.00
Bromoform	0.2400	0.2105	0.1000	12.300	100.00
Bromomethane	0.2610	0.1552	0.0100	40.500	100.00
2-Butanone	0.0580	0.0558	0.0100	3.800	100.00
Methyl acetate	0.1360	0.1170	0.0100	14.000	100.00
Cyclohexane	0.6480	0.5276	0.0100	18.600	100.00
Methylcyclohexane	0.5930	0.4617	0.0100	22.100	100.00
Carbon Disulfide	0.9930	0.8394	0.0100	15.500	100.00
Carbon Tetrachloride	0.3090	0.2779	0.0100	10.100	100.00
Chlorobenzene	1.0690	0.9127	0.3000	14.600	100.00
Chloroethane	0.2650	0.2462	0.0100	7.100	100.00
Chloroform	0.5140	0.4832	0.0100	6.000	20.00
Chloromethane	0.5010	0.4530	0.1000	9.600	100.00
Dibromochloromethane	0.2100	0.1937	0.0100	7.800	100.00
1,2-Dibromo-3-chloropropane	0.0510	0.0397	0.0100	22.200	100.00
1,2-Dibromoethane	0.1730	0.1547	0.0100	10.600	100.00
1,2-Dichlorobenzene	1.3130	1.0892	0.0100	17.000	100.00
1,3-Dichlorobenzene	1.6690	1.3670	0.0100	18.100	100.00
1,4-Dichlorobenzene	1.7190	1.3931	0.0100	19.000	100.00
Dichlorodifluoromethane	0.2750	0.2174	0.0100	20.900	100.00
1,1-Dichloroethane	0.5930	0.5569	0.1000	6.100	100.00
1,2-Dichloroethane	0.2390	0.2305	0.0100	3.600	100.00
1,1-Dichloroethene	0.2810	0.2536	0.0100	9.800	100.00
cis-1,2-Dichloroethene	0.3630	0.3425	0.0100	5.600	100.00
trans-1,2-Dichloroethene	0.3400	0.3355	0.0100	1.300	100.00
1,2-Dichloropropane	0.3340	0.3087	0.0100	7.600	20.00
cis-1,3-Dichloropropene	0.4180	0.3611	0.0100	13.600	100.00
trans-1,3-Dichloropropene	0.3510	0.3065	0.0100	12.700	100.00
Ethylbenzene	1.8150	1.5807	0.0100	12.900	20.00
2-Hexanone	0.1130	0.0975	0.0100	13.700	100.00
Isopropylbenzene	4.0730	3.2761	0.0100	19.600	100.00
Methylene chloride	0.3180	0.3024	0.0100	4.900	100.00
4-Methyl-2-pentanone	0.1680	0.1528	0.0100	9.000	100.00
Styrene	1.0880	0.9433	0.0100	13.300	100.00
1,1,2,2-Tetrachloroethane	0.4580	0.4142	0.3000	9.600	100.00
Tetrachloroethene	0.4360	0.3877	0.0100	11.100	100.00
Toluene	1.1030	1.0121	0.0100	8.200	20.00

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000507-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8186.RR Calibration Date: 02/25/2004 Time: 08:55

ntrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8850	0.6368	0.0100	28.000	100.00
1,1,1-Trichloroethane	0.3970	0.3481	0.0100	12.300	100.00
1,1,2-Trichloroethane	0.1770	0.1656	0.0100	6.400	100.00
Trichloroethene	0.3440	0.3066	0.0100	10.900	100.00
Trichlorofluoromethane	0.3620	0.3089	0.0100	14.700	100.00
Vinyl chloride	0.4330	0.3728	0.0100	13.900	20.00
Total Xylenes	0.6930	0.5943	0.0100	14.200	100.00
Methyl tert butyl ether	0.4410	0.3331	0.0100	24.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2710	0.2466	0.0100	9.000	100.00
1,2-Dichloroethane-D4	0.1920	0.2072	0.0100	-7.900	100.00
Toluene-D8	1.4250	1.4037	0.0100	1.500	100.00
p-Bromofluorobenzene	0.3400	0.3358	0.0100	1.200	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000378

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022402

Lab File ID: M8202 BFB Injection Date: 02/25/2004

Instrument ID: I50M BFB Injection Time: 19:38

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.3		
75	30.0 - 60.0% of mass 95	41.7		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.1		
173	Less than 2.0% of mass 174	0.2	(0.3)	1
174	50 - 120 % of mass 95	82.9		
175	5.0 - 9.0% of mass 174	5.4	(6.5)	1
176	95.0 - 101.0% of mass 174	81.0	(97.7)	1
177	5.0 - 9.0% of mass 176	4.8	(5.9)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000510-1	M8203.RR	02/25/2004	20:20
2	MSB01	A4148005	M8204.RR	02/25/2004	21:17
3	VBLK01	A4148004	M8206.RR	02/25/2004	22:15
4	TBC2-022404	A4148003	M8208.RR	02/25/2004	23:13
5	GW03-017B-P5	A4148002	M8217.RR	02/26/2004	03:34

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000510-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8203.RR Calibration Date: 02/25/2004 Time: 20:20

ntrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0330	0.0369	0.0100	-11.800	100.00
Benzene	1.3830	1.4418	0.0100	-4.200	100.00
Bromodichloromethane	0.3180	0.3329	0.0100	-4.700	100.00
Bromoform	0.2400	0.2564	0.1000	-6.800	100.00
Bromomethane	0.2610	0.0722	0.0100	72.300	100.00
2-Butanone	0.0580	0.0671	0.0100	-15.700	100.00
Methyl acetate	0.1360	0.1433	0.0100	-5.400	100.00
Cyclohexane	0.6480	0.6370	0.0100	1.700	100.00
Methylcyclohexane	0.5930	0.5510	0.0100	7.100	100.00
Carbon Disulfide	0.9930	1.0534	0.0100	-6.100	100.00
Carbon Tetrachloride	0.3090	0.3105	0.0100	-0.500	100.00
Chlorobenzene	1.0690	1.0530	0.3000	1.500	100.00
Chloroethane	0.2650	0.2694	0.0100	-1.700	100.00
Chloroform	0.5140	0.5205	0.0100	-1.300	20.00
Chloromethane	0.5010	0.4672	0.1000	6.700	100.00
Dibromochloromethane	0.2100	0.2162	0.0100	-3.000	100.00
1,2-Dibromo-3-chloropropane	0.0510	0.0494	0.0100	3.100	100.00
1,2-Dibromoethane	0.1730	0.1806	0.0100	-4.400	100.00
1,2-Dichlorobenzene	1.3130	1.2764	0.0100	2.800	100.00
1,3-Dichlorobenzene	1.6690	1.6015	0.0100	4.000	100.00
1,4-Dichlorobenzene	1.7190	1.6294	0.0100	5.200	100.00
Dichlorodifluoromethane	0.2750	0.2691	0.0100	2.100	100.00
1,1-Dichloroethane	0.5930	0.5923	0.1000	0.100	100.00
1,2-Dichloroethane	0.2390	0.2599	0.0100	-8.700	100.00
1,1-Dichloroethene	0.2810	0.2813	0.0100	-0.100	100.00
cis-1,2-Dichloroethene	0.3630	0.3801	0.0100	-4.700	100.00
trans-1,2-Dichloroethene	0.3400	0.3646	0.0100	-7.200	100.00
1,2-Dichloropropane	0.3340	0.3426	0.0100	-2.600	20.00
cis-1,3-Dichloropropene	0.4180	0.3981	0.0100	4.800	100.00
trans-1,3-Dichloropropene	0.3510	0.3435	0.0100	2.100	100.00
Ethylbenzene	1.8150	1.7062	0.0100	6.000	20.00
2-Hexanone	0.1130	0.1261	0.0100	-11.600	100.00
Isopropylbenzene	4.0730	3.6728	0.0100	9.800	100.00
Methylene chloride	0.3180	0.3282	0.0100	-3.200	100.00
4-Methyl-2-pentanone	0.1680	0.1870	0.0100	-11.300	100.00
Styrene	1.0880	1.0489	0.0100	3.600	100.00
1,1,2,2-Tetrachloroethane	0.4580	0.4911	0.3000	-7.200	100.00
Tetrachloroethene	0.4360	0.4428	0.0100	-1.600	100.00
Toluene	1.1030	1.1056	0.0100	-0.200	20.00

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000510-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8203.RR Calibration Date: 02/25/2004 Time: 20:20

ntrument ID: I50M _____ Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8850	0.7620	0.0100	13.900	100.00
1,1,1-Trichloroethane	0.3970	0.3746	0.0100	5.600	100.00
1,1,2-Trichloroethane	0.1770	0.1901	0.0100	-7.400	100.00
Trichloroethene	0.3440	0.3372	0.0100	2.000	100.00
Trichlorofluoromethane	0.3620	0.3479	0.0100	3.900	100.00
Vinyl chloride	0.4330	0.4112	0.0100	5.000	20.00
Total Xylenes	0.6930	0.6578	0.0100	5.100	100.00
Methyl tert butyl ether	0.4410	0.4034	0.0100	8.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2710	0.2852	0.0100	-5.200	100.00
1,2-Dichloroethane-D4	0.1920	0.2052	0.0100	-6.900	100.00
Toluene-D8	1.4250	1.3647	0.0100	4.200	100.00
p-Bromofluorobenzene	0.3400	0.3336	0.0100	1.900	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000391

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022402

Lab File ID: M8224 BFB Injection Date: 02/26/2004

Instrument ID: I50M BFB Injection Time: 09:33

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.3		
75	30.0 - 60.0% of mass 95	45.5		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.0		
173	Less than 2.0% of mass 174	0.5	(0.6)	1
174	50 - 120 % of mass 95	79.7		
175	5.0 - 9.0% of mass 174	5.6	(7.0)	1
176	95.0 - 101.0% of mass 174	77.1	(96.8)	1
177	5.0 - 9.0% of mass 176	4.5	(5.9)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000528-1	M8225.RR	02/26/2004	10:02
2	MSB02	A4146908	M8227.RR	02/26/2004	11:20
3	VBLK02	A4146907	M8228.RR	02/26/2004	11:49
4	GW03-017B-P4 DL	A4146902DL	M8233.RR	02/26/2004	14:14
5	GW03-017C-P8	A4148001	M8234.RR	02/26/2004	14:43
6	GW03-013A-P2	A4150601	M8240.RR	02/26/2004	17:37
7	GW03-013-P2-MS	A4150601MS	M8241.RR	02/26/2004	18:06
8	GW03-013-P2-SD	A4150601SD	M8242.RR	02/26/2004	18:35
9	GW03-014B-P6	A4150602	M8243.RR	02/26/2004	19:04

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000528-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8225.RR Calibration Date: 02/26/2004 Time: 10:02

ntrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0330	0.0318	0.0100	3.600	100.00
Benzene	1.3830	1.3708	0.0100	0.900	100.00
Bromodichloromethane	0.3180	0.3166	0.0100	0.400	100.00
Bromoform	0.2400	0.2286	0.1000	4.800	100.00
Bromomethane	0.2610	0.1281	0.0100	50.900	100.00
2-Butanone	0.0580	0.0565	0.0100	2.600	100.00
Methyl acetate	0.1360	0.1216	0.0100	10.600	100.00
Cyclohexane	0.6480	0.5966	0.0100	7.900	100.00
Methylcyclohexane	0.5930	0.5197	0.0100	12.400	100.00
Carbon Disulfide	0.9930	0.9713	0.0100	2.200	100.00
Carbon Tetrachloride	0.3090	0.3017	0.0100	2.400	100.00
Chlorobenzene	1.0690	1.0144	0.3000	5.100	100.00
Chloroethane	0.2650	0.2528	0.0100	4.600	100.00
Chloroform	0.5140	0.5113	0.0100	0.500	20.00
Chloromethane	0.5010	0.4322	0.1000	13.700	100.00
Dibromochloromethane	0.2100	0.2079	0.0100	1.000	100.00
1,2-Dibromo-3-chloropropane	0.0510	0.0414	0.0100	18.800	100.00
1,2-Dibromoethane	0.1730	0.1601	0.0100	7.400	100.00
1,2-Dichlorobenzene	1.3130	1.1766	0.0100	10.400	100.00
1,3-Dichlorobenzene	1.6690	1.5355	0.0100	8.000	100.00
1,4-Dichlorobenzene	1.7190	1.5243	0.0100	11.300	100.00
Dichlorodifluoromethane	0.2750	0.2403	0.0100	12.600	100.00
1,1-Dichloroethane	0.5930	0.5914	0.1000	0.300	100.00
1,2-Dichloroethane	0.2390	0.2418	0.0100	-1.200	100.00
1,1-Dichloroethene	0.2810	0.2791	0.0100	0.700	100.00
cis-1,2-Dichloroethene	0.3630	0.3630	0.0100	0.000	100.00
trans-1,2-Dichloroethene	0.3400	0.3514	0.0100	-3.400	100.00
1,2-Dichloropropane	0.3340	0.3256	0.0100	2.500	20.00
cis-1,3-Dichloropropene	0.4180	0.3859	0.0100	7.700	100.00
trans-1,3-Dichloropropene	0.3510	0.3284	0.0100	6.400	100.00
Ethylbenzene	1.8150	1.7178	0.0100	5.400	20.00
2-Hexanone	0.1130	0.1033	0.0100	8.600	100.00
Isopropylbenzene	4.0730	3.7263	0.0100	8.500	100.00
Methylene chloride	0.3180	0.3151	0.0100	0.900	100.00
4-Methyl-2-pentanone	0.1680	0.1593	0.0100	5.200	100.00
Styrene	1.0880	0.9826	0.0100	9.700	100.00
1,1,2,2-Tetrachloroethane	0.4580	0.4495	0.3000	1.800	100.00
Tetrachloroethene	0.4360	0.4182	0.0100	4.100	100.00
Toluene	1.1030	1.0655	0.0100	3.400	20.00

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FORM VII VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000528-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8225.RR Calibration Date: 02/26/2004 Time: 10:02

ntrument ID: I50M_____ Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8850	0.7032	0.0100	20.500	100.00
1,1,1-Trichloroethane	0.3970	0.3706	0.0100	6.600	100.00
1,1,2-Trichloroethane	0.1770	0.1775	0.0100	-0.300	100.00
Trichloroethene	0.3440	0.3205	0.0100	6.800	100.00
Trichlorofluoromethane	0.3620	0.3242	0.0100	10.400	100.00
Vinyl chloride	0.4330	0.3844	0.0100	11.200	20.00
Total Xylenes	0.6930	0.6170	0.0100	11.000	100.00
Methyl tert butyl ether	0.4410	0.3606	0.0100	18.200	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2710	0.2571	0.0100	5.100	100.00
1,2-Dichloroethane-D4	0.1920	0.2034	0.0100	-5.900	100.00
Toluene-D8	1.4250	1.4173	0.0100	0.500	100.00
p-Bromofluorobenzene	0.3400	0.3306	0.0100	2.800	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000392

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022402

Lab File ID: M8244 BFB Injection Date: 02/26/2004

Instrument ID: I50M BFB Injection Time: 19:40

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.4		
75	30.0 - 60.0% of mass 95	44.7		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.0		
173	Less than 2.0% of mass 174	0.4	(0.5)	1
174	50 - 120 % of mass 95	81.4		
175	5.0 - 9.0% of mass 174	5.9	(7.2)	1
176	95.0 - 101.0% of mass 174	77.7	(95.5)	1
177	5.0 - 9.0% of mass 176	4.8	(6.2)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000529-1	M8245.RR	02/26/2004	19:59
2	MSB03	A4148009	M8246.RR	02/26/2004	20:50
3	VBLK03	A4148008	M8247.RR	02/26/2004	21:19
4	TB-A2-022504	A4153103	M8249.RR	02/26/2004	22:17
5	GW03-010A-P1	A4153101	M8251.RR	02/26/2004	23:15
6	GW03-014B-P5	A4153102	M8252.RR	02/26/2004	23:44
7	GW03-017C-P8 DL	A4148001DL	M8253.RR	02/27/2004	00:13

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000529-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8245.RR Calibration Date: 02/26/2004 Time: 19:59

ntrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0330	0.0354	0.0100	-7.300	100.00
Benzene	1.3830	1.3665	0.0100	1.200	100.00
Bromodichloromethane	0.3180	0.3209	0.0100	-0.900	100.00
Bromoform	0.2400	0.2339	0.1000	2.500	100.00
Bromomethane	0.2610	0.1375	0.0100	47.300	100.00
2-Butanone	0.0580	0.0662	0.0100	-14.100	100.00
Methyl acetate	0.1360	0.1319	0.0100	3.000	100.00
Cyclohexane	0.6480	0.6530	0.0100	-0.800	100.00
Methylcyclohexane	0.5930	0.5651	0.0100	4.700	100.00
Carbon Disulfide	0.9930	1.0090	0.0100	-1.600	100.00
Carbon Tetrachloride	0.3090	0.3083	0.0100	0.200	100.00
Chlorobenzene	1.0690	0.9619	0.3000	10.000	100.00
Chloroethane	0.2650	0.2628	0.0100	0.800	100.00
Chloroform	0.5140	0.5034	0.0100	2.100	20.00
Chloromethane	0.5010	0.4650	0.1000	7.200	100.00
Dibromochloromethane	0.2100	0.2058	0.0100	2.000	100.00
1,2-Dibromo-3-chloropropane	0.0510	0.0451	0.0100	11.600	100.00
1,2-Dibromoethane	0.1730	0.1693	0.0100	2.100	100.00
1,2-Dichlorobenzene	1.3130	1.1358	0.0100	13.500	100.00
1,3-Dichlorobenzene	1.6690	1.4372	0.0100	13.900	100.00
1,4-Dichlorobenzene	1.7190	1.4744	0.0100	14.200	100.00
Dichlorodifluoromethane	0.2750	0.2509	0.0100	8.800	100.00
1,1-Dichloroethane	0.5930	0.5905	0.1000	0.400	100.00
1,2-Dichloroethane	0.2390	0.2474	0.0100	-3.500	100.00
1,1-Dichloroethene	0.2810	0.2703	0.0100	3.800	100.00
cis-1,2-Dichloroethene	0.3630	0.3648	0.0100	-0.500	100.00
trans-1,2-Dichloroethene	0.3400	0.3525	0.0100	-3.700	100.00
1,2-Dichloropropane	0.3340	0.3351	0.0100	-0.300	20.00
cis-1,3-Dichloropropene	0.4180	0.3925	0.0100	6.100	100.00
trans-1,3-Dichloropropene	0.3510	0.3314	0.0100	5.600	100.00
Ethylbenzene	1.8150	1.6143	0.0100	11.000	20.00
2-Hexanone	0.1130	0.1216	0.0100	-7.600	100.00
Isopropylbenzene	4.0730	3.4286	0.0100	15.800	100.00
Methylene chloride	0.3180	0.3225	0.0100	-1.400	100.00
4-Methyl-2-pentanone	0.1680	0.1809	0.0100	-7.700	100.00
Styrene	1.0880	0.9835	0.0100	9.600	100.00
1,1,2,2-Tetrachloroethane	0.4580	0.4587	0.3000	-0.200	100.00
Tetrachloroethene	0.4360	0.4084	0.0100	6.300	100.00
Toluene	1.1030	1.0501	0.0100	4.800	20.00

FORM VII VOA 11/28/04 [illegible]

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000529-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8245.RR Calibration Date: 02/26/2004 Time: 19:59

ntrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8850	0.6841	0.0100	22.700	100.00
1,1,1-Trichloroethane	0.3970	0.3658	0.0100	7.800	100.00
1,1,2-Trichloroethane	0.1770	0.1831	0.0100	-3.400	100.00
Trichloroethene	0.3440	0.3195	0.0100	7.100	100.00
Trichlorofluoromethane	0.3620	0.3379	0.0100	6.600	100.00
Vinyl chloride	0.4330	0.4064	0.0100	6.100	20.00
Total Xylenes	0.6930	0.6162	0.0100	11.100	100.00
Methyl tert butyl ether	0.4410	0.4012	0.0100	9.000	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2710	0.2523	0.0100	6.900	100.00
1,2-Dichloroethane-D4	0.1920	0.2110	0.0100	-9.900	100.00
Toluene-D8	1.4250	1.3960	0.0100	2.000	100.00
p-Bromofluorobenzene	0.3400	0.3359	0.0100	1.200	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000397

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022402

Lab File ID: M8288 BFB Injection Date: 02/27/2004

Instrument ID: I50M BFB Injection Time: 21:23

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.1		
75	30.0 - 60.0% of mass 95	45.5		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.6		
173	Less than 2.0% of mass 174	0.2	(0.2)	1
174	50 - 120 % of mass 95	76.7		
175	5.0 - 9.0% of mass 174	5.2	(6.8)	1
176	95.0 - 101.0% of mass 174	75.2	(98.1)	1
177	5.0 - 9.0% of mass 176	4.5	(6.0)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000533-1	M8289.RR	02/27/2004	21:40
2	MSB05	A4158708	M8290.RR	02/27/2004	22:12
3	VBLK05	A4158707	M8291.RR	02/27/2004	22:41
4	TBC2-022604	A4158706	M8293.RR	02/27/2004	23:39
5	GW03-013B-P5	A4158701	M8302.RR	02/28/2004	04:01
6	GW03-013B-P4	A4158702	M8303.RR	02/28/2004	04:30
7	GW03-001A-P1	A4158703	M8304.RR	02/28/2004	04:59
8	GW03-002A-P1	A4158704	M8305.RR	02/28/2004	05:28
9	GW03-014C-P7	A4158705	M8306.RR	02/28/2004	05:57

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000533-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8289.RR Calibration Date: 02/27/2004 Time: 21:40

ntrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0330	0.0334	0.0100	-1.200	100.00
Benzene	1.3830	1.3837	0.0100	-0.100	100.00
Bromodichloromethane	0.3180	0.3254	0.0100	-2.300	100.00
Bromoform	0.2400	0.2307	0.1000	3.900	100.00
Bromomethane	0.2610	0.1300	0.0100	50.200	100.00
2-Butanone	0.0580	0.0617	0.0100	-6.400	100.00
Methyl acetate	0.1360	0.1298	0.0100	4.600	100.00
Cyclohexane	0.6480	0.6133	0.0100	5.400	100.00
Methylcyclohexane	0.5930	0.5459	0.0100	7.900	100.00
Carbon Disulfide	0.9930	0.9295	0.0100	6.400	100.00
Carbon Tetrachloride	0.3090	0.3058	0.0100	1.000	100.00
Chlorobenzene	1.0690	1.0208	0.3000	4.500	100.00
Chloroethane	0.2650	0.2370	0.0100	10.600	100.00
Chloroform	0.5140	0.5206	0.0100	-1.300	20.00
Chloromethane	0.5010	0.4171	0.1000	16.700	100.00
Dibromochloromethane	0.2100	0.2150	0.0100	-2.400	100.00
1,2-Dibromo-3-chloropropane	0.0510	0.0443	0.0100	13.100	100.00
1,2-Dibromoethane	0.1730	0.1721	0.0100	0.500	100.00
1,2-Dichlorobenzene	1.3130	1.1883	0.0100	9.500	100.00
1,3-Dichlorobenzene	1.6690	1.5000	0.0100	10.100	100.00
1,4-Dichlorobenzene	1.7190	1.5265	0.0100	11.200	100.00
Dichlorodifluoromethane	0.2750	0.2364	0.0100	14.000	100.00
1,1-Dichloroethane	0.5930	0.5913	0.1000	0.300	100.00
1,2-Dichloroethane	0.2390	0.2537	0.0100	-6.200	100.00
1,1-Dichloroethene	0.2810	0.2705	0.0100	3.700	100.00
cis-1,2-Dichloroethene	0.3630	0.3652	0.0100	-0.600	100.00
trans-1,2-Dichloroethene	0.3400	0.3430	0.0100	-0.900	100.00
1,2-Dichloropropane	0.3340	0.3359	0.0100	-0.600	20.00
cis-1,3-Dichloropropene	0.4180	0.3805	0.0100	9.000	100.00
trans-1,3-Dichloropropene	0.3510	0.3418	0.0100	2.600	100.00
Ethylbenzene	1.8150	1.7761	0.0100	2.100	20.00
2-Hexanone	0.1130	0.1200	0.0100	-6.200	100.00
Isopropylbenzene	4.0730	3.7153	0.0100	8.800	100.00
Methylene chloride	0.3180	0.3162	0.0100	0.600	100.00
4-Methyl-2-pentanone	0.1680	0.1765	0.0100	-5.000	100.00
Styrene	1.0880	0.9816	0.0100	9.800	100.00
1,1,2,2-Tetrachloroethane	0.4580	0.4740	0.3000	-3.500	100.00
Tetrachloroethene	0.4360	0.4277	0.0100	1.900	100.00
Toluene	1.1030	1.0752	0.0100	2.500	20.00

4/28/04

FORM VII VOA

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000533-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

ab File Id: M8289.RR Calibration Date: 02/27/2004 Time: 21:40

ntrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

eated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

C Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8850	0.6996	0.0100	20.900	100.00
1,1,1-Trichloroethane	0.3970	0.3800	0.0100	4.300	100.00
1,1,2-Trichloroethane	0.1770	0.1864	0.0100	-5.300	100.00
Trichloroethene	0.3440	0.3293	0.0100	4.300	100.00
Trichlorofluoromethane	0.3620	0.3242	0.0100	10.400	100.00
Vinyl chloride	0.4330	0.3775	0.0100	12.800	20.00
Total Xylenes	0.6930	0.6377	0.0100	8.000	100.00
Methyl tert butyl ether	0.4410	0.3934	0.0100	10.800	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2710	0.2740	0.0100	-1.100	100.00
1,2-Dichloroethane-D4	0.1920	0.2097	0.0100	-9.200	100.00
Toluene-D8	1.4250	1.4633	0.0100	-2.700	100.00
p-Bromofluorobenzene	0.3400	0.3390	0.0100	0.300	100.00

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000412

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022402

Lab File ID: V02418 DFTPP Injection Date: 03/01/2004

Instrument ID: HP5973V DFTPP Injection Time: 09:32

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	35.1		
68	Less than 2.0% of mass 69	0.0	(0.0)	1
69	Present	38.7		
70	Less than 2.0% of mass 69	0.2	(0.6)	1
127	40.0 - 60.0% of mass 198	48.4		
197	Less than 1.0% of mass 198	0.0		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	6.4		
275	10.0 - 30.0% of mass 198	27.3		
365	Greater than 1.00% of mass 198	2.8		
441	Present, but less than mass 443	14.4		
442	40.0 - 110.0% of mass 198	106.2		
443	17.0 - 23.0% of mass 442	18.9	(17.8)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A4C0000546-1	V02419.RR	03/01/2004	09:53
2	SSTD050	A4C0000546-2	V02420.RR	03/01/2004	10:22
3	Matrix Spike Blank	A4B0621401	V02421.RR	03/01/2004	10:50
4	S Blank	A4B0621402	V02422.RR	03/01/2004	11:17
5	GW03-017C-P8	A4148001	V02423.RR	03/01/2004	11:45
6	GW03-017B-P5	A4148002	V02424.RR	03/01/2004	12:13
7	GW03-013A-P2	A4150601	V02425.RR	03/01/2004	12:41
8	GW03-013-P2-MS	A4150601MS	V02426.RR	03/01/2004	13:09
9	GW03-013-P2-SD	A4150601SD	V02427.RR	03/01/2004	13:37
10	GW03-014B-P6	A4150602	V02428.RR	03/01/2004	14:05
11	GW03-010A-P1	A4153101	V02429.RR	03/01/2004	14:33
12	GW03-014B-P5	A4153102	V02430.RR	03/01/2004	15:02
13	Matrix Spike Blank	A4B0626401	V02432.RR	03/01/2004	16:14
14	S Blank	A4B0626402	V02433.RR	03/01/2004	16:41
15	GW03-007B-P5	A4157301	V02434.RR	03/01/2004	17:09
16	GW03-017C-P9	A4157302	V02435.RR	03/01/2004	17:37
17	GW03-017B-P6	A4157303	V02436.RR	03/01/2004	18:04
18	GW03-007B-P4	A4157304	V02437.RR	03/01/2004	18:32
19	GW03-013A-P1	A4157305	V02438.RR	03/01/2004	18:59
20	GW03-013A-P3	A4157306	V02439.RR	03/01/2004	19:26
21	GW03-013B-P5	A4158701	V02440.RR	03/01/2004	19:53
22	GW03-013B-P4	A4158702	V02441.RR	03/01/2004	20:21

FORM V SV

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000412

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022402

Lab File ID: V02418 DFTPP Injection Date: 03/01/2004

Instrument ID: HP5973V DFTPP Injection Time: 09:32

23	GW03-001A-P1	A4158703	V02442.RR	03/01/2004	20:48
24	GW03-002A-P1	A4158704	V02443.RR	03/01/2004	21:15

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000546-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022402

Lab File Id: V02419.RR Calibration Date: 03/01/2004 Time: 09:53

Intrument ID: HP5973V Init. Calib. Date(s): 02/26/2004 02/26/2004

Init. Calib. Times: 08:40 11:06

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.9130	1.9837	0.0500	-3.700	20.00
Bis(2-chloroethyl) ether	1.3540	1.3575	0.0500	-0.300	25.00
2-Chlorophenol	1.3660	1.4237	0.0500	-4.200	25.00
2-Methylphenol	1.2460	1.3257	0.0500	-6.400	25.00
2,2'-Oxybis(1-Chloropropane)	1.6020	1.5299	0.0500	4.500	25.00
4-Methylphenol	1.3550	1.4638	0.0500	-8.000	25.00
N-Nitroso-Di-n-propylamine	1.0040	1.0133	0.0500	-0.900	25.00
Hexachloroethane	0.5650	0.5500	0.0500	2.600	25.00
Nitrobenzene	0.3650	0.3570	0.0500	2.200	25.00
Isophorone	0.6600	0.6923	0.0500	-4.900	25.00
2-Nitrophenol	0.1530	0.1810	0.0500	-18.300	20.00
2,4-Dimethylphenol	0.3240	0.3367	0.0500	-3.900	25.00
Bis(2-chloroethoxy) methane	0.3890	0.3943	0.0500	-1.400	25.00
2,4-Dichlorophenol	0.2530	0.2711	0.0500	-7.200	20.00
Naphthalene	1.0230	1.0426	0.0500	-1.900	25.00
4-Chloroaniline	0.3950	0.4298	0.0500	-8.800	25.00
Hexachlorobutadiene	0.1460	0.1488	0.0500	-1.900	20.00
4-Chloro-3-methylphenol	0.2920	0.3150	0.0500	-7.900	20.00
2-Methylnaphthalene	0.6530	0.6865	0.0500	-5.100	25.00
Hexachlorocyclopentadiene	0.3230	0.3475	0.0500	-7.600	25.00
2,4,6-Trichlorophenol	0.3050	0.3457	0.0500	-13.300	25.00
2,4,5-Trichlorophenol	0.3470	0.3860	0.0500	-11.200	25.00
2-Chloronaphthalene	1.1180	1.1514	0.0500	-3.000	25.00
2-Nitroaniline	0.3280	0.3374	0.0500	-2.900	25.00
Dimethyl phthalate	1.2200	1.2832	0.0500	-5.200	25.00
Acenaphthylene	1.8240	1.9074	0.0500	-4.600	25.00
2,6-Dinitrotoluene	0.2680	0.3006	0.0500	-12.200	25.00
3-Nitroaniline	0.3030	0.3373	0.0500	-11.300	25.00
Acenaphthene	1.1550	1.1523	0.0500	0.200	20.00
2,4-Dinitrophenol	0.1300	0.1815	0.0500	-39.600	40.00
4-Nitrophenol	0.1810	0.2021	0.0500	-11.600	40.00
Dibenzofuran	1.6140	1.6755	0.0500	-3.800	25.00
2,4-Dinitrotoluene	0.3630	0.3982	0.0500	-9.700	25.00
Diethyl phthalate	1.2120	1.2537	0.0500	-3.400	25.00
4-Chlorophenyl phenyl ether	0.6160	0.6387	0.0500	-3.700	25.00
Fluorene	1.3290	1.3822	0.0500	-4.000	25.00
4-Nitroaniline	0.2950	0.3431	0.0500	-16.300	25.00
4,6-Dinitro-2-methylphenol	0.1150	0.1390	0.0500	-20.900	40.00
N-nitrosodiphenylamine	0.5660	0.5807	0.0500	-2.600	20.00

4/30/04

FORM VII SV-1

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10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-017B-P4

Lab Name: STL Buffalo

Case No.: SDG No.: 022402

Lab Sample ID : A4146902 Dates(s) Analyzed: 03/09/2004 03/09/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
alpha-BHC	1	11.97	11.90	12.00	0.047	
	2	12.21	12.16	12.26	0.019	59.6
beta-BHC	1	13.26	13.21	13.31	0.043	
	2	13.50	13.46	13.56	0.041	4.7

5/4/04 [illegible]

FORM X PEST

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10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-017C-P8

Lab Name: STL Buffalo

Case No.:

SDG No.: 022402

Lab Sample ID : A4148001

Dates(s) Analyzed: 03/09/2004 03/09/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW		CONC.	%D
			FROM	TO		
beta-BHC	1	13.27	13.21	13.31	0.034	
	2	13.50	13.46	13.56	0.024	29.4

5/4/04

FORM X PEST

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 2/27/04 End Date: 2/27/04

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-017C-P7	1.00	11:11																X									
GW03-017B-P4	1.00	11:13																X									
GW03-017A-P1	1.00	11:14																X									
GW03-017C-P8	1.00	11:16																X									
CCV	1.00	11:17																X									
CCB	1.00	11:18																X									
GW03-017B-P5	1.00	11:20																X									
ZZZZZZ	1.00	11:21																									
ZZZZZZ	1.00	11:22																									
ZZZZZZ	1.00	11:23																									
ZZZZZZ	1.00	11:24																									
ZZZZZZ	1.00	11:26																									
ZZZZZZ	1.00	11:27																									
ZZZZZZ	1.00	11:28																									
ZZZZZZ	1.00	11:29																									
LCS	1.00	11:31																X									
CCV	1.00	11:32																X									
CCB	1.00	11:33																X									
ZZZZZZ	1.00	11:35																									
ZZZZZZ	1.00	11:36																									
ZZZZZZ	1.00	11:37																									
ZZZZZZ	1.00	11:39																									
ZZZZZZ	1.00	11:40																									
ZZZZZZ	1.00	11:41																									
ZZZZZZ	1.00	11:43																									
ZZZZZZ	1.00	11:44																									
ZZZZZZ	1.00	11:46																									
ZZZZZZ	1.00	11:47																									
CCV	1.00	11:48																X									
CCB	1.00	11:49																X									
ZZZZZZ	1.00	11:50																									
Method Blank	1.00	11:52																X									
ZZZZZZ	1.00	11:54																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 2/27/04 End Date: 2/27/04

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	10:22																X									
ICB	1.00	10:23																X									
CRA	1.00	10:29																X									
ZZZZZZ	1.00	10:30																									
ZZZZZZ	1.00	10:31																									
ZZZZZZ	1.00	10:33																									
ZZZZZZ	1.00	10:34																									
ZZZZZZ	1.00	10:35																									
ZZZZZZ	1.00	10:37																									
ZZZZZZ	1.00	10:38																									
ZZZZZZ	1.00	10:39																									
ZZZZZZ	1.00	10:40																									
ZZZZZZ	1.00	10:41																									
CCV	1.00	10:43																X									
CCB	1.00	10:44																X									
ZZZZZZ	1.00	10:46																									
ZZZZZZ	1.00	10:47																									
ZZZZZZ	1.00	10:50																									
ZZZZZZ	1.00	10:51																									
ZZZZZZ	1.00	10:52																									
ZZZZZZ	1.00	10:53																									
ZZZZZZ	1.00	10:55																									
ZZZZZZ	1.00	10:56																									
ZZZZZZ	1.00	10:57																									
LCS	1.00	10:58																X									
CCV	1.00	11:00																X									
CCB	1.00	11:01																X									
ZZZZZZ	1.00	11:03																									
ZZZZZZ	1.00	11:05																									
ZZZZZZ	1.00	11:07																									
ZZZZZZ	1.00	11:08																									
ZZZZZZ	1.00	11:09																									
ZZZZZZ	1.00	11:10																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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A4B06202 - 2/26/2004 non-clp water Hg W1 (Open)
AQUEOUS

Date	Time	Dig Emp	Jobno	Sample ID	Bot ID	Sample Type	Digest ID	Vl	Analysis Type	Initial Vl (ml)	Final (ml)	Color Before/After		Clarity Before/After		Textur
02/26/04	12:00	JMB	A04-1451	A4145101	A	FS	AD407228	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1453	A4145301	A	FS	AD407229	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1453	A4145302	A	FS	AD407230	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1453	A4145302MS	A	MS	AD407231	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1453	A4145302SD	A	SD	AD407232	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1453	A4145303	A	FS	AD407233	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1453	A4145304	A	FS	AD407234	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1453	A4145305	A	FS	AD407235	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1454	A4145401	A	FS	AD407236	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1454	A4145402	A	FS	AD407237	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1454	A4145403	A	FS	AD407238	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1454	A4145404	A	FS	AD407239	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1454	A4145405	A	FS	AD407240	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1458	A4145801	A	FS	AD407241	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB		A4B0620201	A	LCS	AD407242	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1458	A4145802	A	FS	AD407243	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1462	A4146201	A	FS	AD407244	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1462	A4146202	A	FS	AD407245	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1462	A4146202MS	A	MS	AD407246	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1462	A4146202SD	A	SD	AD407247	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1462	A4146203	A	FS	AD407248	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1469	A4146901	A	FS	AD407249	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1469	A4146902	A	FS	AD407250	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1469	A4146903	A	FS	AD407251	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1480	A4148001	A	FS	AD407252	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1480	A4148002	A	FS	AD407253	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1484	A4148401	A	FS	AD407254	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1484	A4148402	A	FS	AD407255	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1484	A4148402MS	A	MS	AD407256	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1484	A4148402SD	A	SD	AD407257	A	MERCURY	30.00	50.00					

Color: Black Gray Red Yellow Blue Green Violet Colorless Brown Orange White

Clarity: Clear Cloudy Opaque

Texture: Fine (powdery) Medium (sand) Coarse (large crystals or rocks)

* Redigestion

4052/6069

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A4B06202 - 2/26/2004 non-clp water Hg W1 (Open)
AQUEOUS

Date	Time	Dig Emp	Jobno	Sample ID	Bot ID	Sample Type	Digest ID	Vl	Analysis Type	Initial Vl (ml)	Final (ml)	Color Before/After		Clarity Before/After		Textur
02/26/04	12:00	JMB	A04-1484	A4148403	A	FS	AD407258	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1484	A4148404	A	FS	AD407259	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1486	A4148601	A	FS	AD407260	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1486	A4148602	A	FS	AD407261	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB		A4B0620202	A	LCS	AD407262	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1487	A4148701	A	FS	AD407263	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1488	A4148801	A	FS	AD407264	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1488	A4148802	A	FS	AD407265	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1488	A4148803	A	FS	AD407266	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1494	A4149402	A	FS	AD407267	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1501	A4150101	A	FS	AD407268	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1501	A4150101MS	A	MS	AD407269	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB	A04-1501	A4150101SD	A	SD	AD407270	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB		A4B0620203	A	LCS	AD407271	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB		A4B0620204	A	MBLK	AD407272	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB		A4B0620205	A	MBLK	AD407273	A	MERCURY	30.00	50.00					
02/26/04	12:00	JMB		A4B0620206	A	MBLK	AD407274	A	MERCURY	30.00	50.00					

Comments: Comments: EPPENDORF USED TO ADD SPIKES:
MA-03A-1404E 2ml
EPPENDORFS USED TO DISPENSE SET VOLUMES:
MA-03C-2304E .1ml
MA-03C-2303E .2ml
MA-03C-2302E .5ml
MA-03C-2301E 1ml
MA-03C-2204E 1.5ml
MA-03C-2203E 2ml
MA-03C-2202F 5ml
MERCURY BATCH ADDITIONS

4053/6069

Color: Black Gray Red Yellow Blue Green Violet Colorless Brown Orange White

Clarity: Clear Cloudy Opaque

Texture: Fine (powdery) Medium (sand) Coarse (large crystals or rocks)

* Redigestion

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BLANKS

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 022402

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	-0.2		0.1	U	0.1	U	0.1	U	-0.230		CV

Comments:

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-010A-P1L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 022402

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	568458.63		587548.81		3.4		P
Lead	1.44		30.00	U	100.0		P
Magnesium	128011.80		125648.20		1.8		P
Potassium	16262.85		15251.50		6.2		P
Sodium	96736.05		84951.25		12.2	E	P

Comments:

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-013A-P2L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 022402

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.00	U	50.00	U			P
Cadmium	1.00	U	5.00	U			P
Calcium	98092.36		100641.70		2.6		P
Lead	6.00	U	30.00	U			P
Magnesium	23558.26		23835.05		1.2		P
Potassium	4385.30		12500.00	U	100.0		P
Sodium	99523.66		88613.50		11.0	E	P

Comments: _____

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: SUPERTRACE Method: P

Start Date: 2/28/04 End Date: 2/28/04

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	02:28				X			X	X					X	X				X			X				
STD 1	1.00	02:33				X			X	X					X	X				X			X				
STD 2	1.00	02:38				X			X	X					X	X				X			X				
STD 3	1.00	02:42				X			X	X					X	X				X			X				
STD 3 VER	1.00	02:47				X			X	X					X	X				X			X				
ICV	1.00	02:52				X			X	X					X	X				X			X				
ICB	1.00	02:57				X			X	X					X	X				X			X				
CRI	1.00	03:02				X			X	X					X	X				X			X				
ICSA	1.00	03:06				X			X	X					X	X				X			X				
ICSAB	1.00	03:11				X			X	X					X	X				X			X				
CCV	1.00	03:17				X			X	X					X	X				X			X				
CCB	1.00	03:22				X			X	X					X	X				X			X				
ZZZZZZ	1.00	03:27																									
ZZZZZZ	1.00	03:32																									
ZZZZZZ	1.00	03:36																									
ZZZZZZ	1.00	03:41																									
ZZZZZZ	1.00	03:46																									
ZZZZZZ	1.00	03:51																									
GW03-010A-P1	1.00	03:56				X			X						X	X											
GW03-010A-P1L	5.00	04:00				X			X						X	X											
GW03-010A-P1A	1.00	04:05				X			X						X	X											
GW03-014B-P5	1.00	04:10				X			X						X	X				X			X				
CCV	1.00	04:16				X			X	X					X	X				X			X				
CCB	1.00	04:21				X			X	X					X	X				X			X				
ZZZZZZ	1.00	04:26																									
ZZZZZZ	1.00	04:31																									
Method Blank	1.00	04:36				X			X	X					X	X				X			X				
LFB	1.00	04:40				X			X	X					X	X				X			X				
ZZZZZZ	1.00	04:45																									
ZZZZZZ	1.00	04:50																									
ZZZZZZ	1.00	04:55																									
ZZZZZZ	1.00	05:00																									
ZZZZZZ	1.00	05:04																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: SUPERTRACE Method: P

Start Date: 2/28/04 End Date: 2/28/04

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-013A-P2	1.00	05:09				X			X	X					X	X											
CCV	1.00	05:15				X			X	X					X	X				X			X				
CCB	1.00	05:20				X			X	X					X	X				X			X				
GW03-013A-P2L	5.00	05:25				X			X	X					X	X											
GW03-013A-P2A	1.00	05:30				X			X	X					X	X											
GW03-013-P2-MD	1.00	05:35				X			X	X					X	X											
GW03-013-P2-MS	1.00	05:39				X			X	X					X	X											
GW03-014B-P6	1.00	05:44				X			X	X					X	X				X			X				
ZZZZZZ	1.00	05:49																									
ZZZZZZ	5.00	05:54																									
ZZZZZZ	1.00	05:59																									
ZZZZZZ	1.00	06:03																									
ZZZZZZ	1.00	06:08																									
CCV	1.00	06:14				X			X	X					X	X				X			X				
CCB	1.00	06:19				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:24																									
ZZZZZZ	1.00	06:29																									
ZZZZZZ	1.00	06:34																									
ZZZZZZ	1.00	06:38																									
ZZZZZZ	1.00	06:43																									
ZZZZZZ	1.00	06:48																									
ZZZZZZ	1.00	06:53																									
ZZZZZZ	1.00	06:58																									
ZZZZZZ	1.00	07:02																									
ZZZZZZ	1.00	07:07																									
CCV	1.00	07:13				X			X	X					X	X				X			X				
CCB	1.00	07:18				X			X	X					X	X				X			X				
ZZZZZZ	1.00	07:23																									
ZZZZZZ	5.00	07:28																									
ZZZZZZ	25.00	07:33																									
ZZZZZZ	5.00	07:37																									
ZZZZZZ	5.00	07:42																									
ZZZZZZ	5.00	07:47																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: SUPERTRACE Method: P

Start Date: 2/28/04 End Date: 2/28/04

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	07:52																									
ZZZZZZ	1.00	07:57																									
CCV	1.00	08:03				X			X	X					X	X				X			X				
CCB	1.00	08:08				X			X	X					X	X				X			X				
CRI	1.00	08:13				X			X	X					X	X				X			X				
ICSA	1.00	08:17				X			X	X					X	X				X			X				
ICSAB	1.00	08:22				X			X	X					X	X				X			X				
CCV	1.00	08:28				X			X	X					X	X				X			X				
CCB	1.00	08:33				X			X	X					X	X				X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/1/04 End Date: 3/2/04

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	22:47				X			X	X					X	X				X			X				
STD 1	1.00	22:52				X			X	X					X	X				X			X				
STD 2	1.00	22:57				X			X	X					X	X				X			X				
STD 3	1.00	23:02				X			X	X					X	X				X			X				
STD 3 VER	1.00	23:06				X			X	X					X	X				X			X				
ICV	1.00	23:11				X			X	X					X	X				X			X				
ICB	1.00	23:16				X			X	X					X	X				X			X				
CRI	1.00	23:21				X			X	X					X	X				X			X				
ICSA	1.00	23:26				X			X	X					X	X				X			X				
ICSAB	1.00	23:30				X			X	X					X	X				X			X				
CCV	1.00	23:36				X			X	X					X	X				X			X				
CCB	1.00	23:41				X			X	X					X	X				X			X				
Method Blank	1.00	23:46				X			X	X					X	X				X			X				
LFB	1.00	23:51				X			X	X					X	X				X			X				
ZZZZZZ	1.00	23:56																									
ZZZZZZ	1.00	00:01																									
ZZZZZZ	1.00	00:05																									
GW03-017A-P1	5.00	00:10								X										X			X				
ZZZZZZ	5.00	00:15																									
ZZZZZZ	1.00	00:20																									
ZZZZZZ	1.00	00:25																									
ZZZZZZ	1.00	00:29																									
CCV	1.00	00:35				X			X	X					X	X				X			X				
CCB	1.00	00:40				X			X	X					X	X				X			X				
Method Blank	1.00	00:45				X			X	X					X	X				X			X				
ZZZZZZ	5.00	00:50																									
ZZZZZZ	5.00	00:55																									
ZZZZZZ	20.00	01:00																									
GW03-010A-P1	5.00	01:04								X										X			X				
GW03-010A-P1L	25.00	01:09								X										X			X				
GW03-010A-P1A	5.00	01:14								X										X			X				
ZZZZZZ	5.00	01:19																									
GW03-013A-P2	5.00	01:24																		X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/1/04 End Date: 3/2/04

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-013A-P2L	25.00	01:28																		X			X				
CCV	1.00	01:34				X			X	X					X	X				X			X				
CCB	1.00	01:39				X			X	X					X	X				X			X				
GW03-013A-P2A	5.00	01:44																		X			X				
GW03-013-P2-MD	5.00	01:49																		X			X				
GW03-013-P2-MS	5.00	01:54																		X			X				
ZZZZZZ	1.00	01:59																									
ZZZZZZ	1.00	02:03																									
ZZZZZZ	1.00	02:08																									
ZZZZZZ	1.00	02:13																									
ZZZZZZ	1.00	02:18																									
ZZZZZZ	1.00	02:23																									
ZZZZZZ	1.00	02:27																									
CCV	1.00	02:34				X			X	X					X	X				X			X				
CCB	1.00	02:38				X			X	X					X	X				X			X				
ZZZZZZ	1.00	02:43																									
ZZZZZZ	1.00	02:48																									
ZZZZZZ	5.00	02:53																									
ZZZZZZ	1.00	02:58																									
ZZZZZZ	1.00	03:02																									
ZZZZZZ	1.00	03:07																									
ZZZZZZ	1.00	03:12																									
ZZZZZZ	1.00	03:17																									
ZZZZZZ	1.00	03:22																									
ZZZZZZ	1.00	03:26																									
CCV	1.00	03:33				X			X	X					X	X				X			X				
CCB	1.00	03:37				X			X	X					X	X				X			X				
ZZZZZZ	1.00	03:42																									
ZZZZZZ	1.00	03:47																									
ZZZZZZ	1.00	03:52																									
ZZZZZZ	1.00	03:57																									
ZZZZZZ	1.00	04:01																									
ZZZZZZ	1.00	04:06																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/1/04 End Date: 3/2/04

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	5.00	04:11																									
ZZZZZZ	1.00	04:16																									
ZZZZZZ	1.00	04:21																									
ZZZZZZ	1.00	04:26																									
CCV	1.00	04:32				X			X	X					X	X				X			X				
CCB	1.00	04:37				X			X	X					X	X				X			X				
ZZZZZZ	5.00	04:41																									
ZZZZZZ	1.00	04:46																									
ZZZZZZ	1.00	04:51																									
ZZZZZZ	1.00	04:56																									
ZZZZZZ	5.00	05:00																									
ZZZZZZ	1.00	05:05																									
ZZZZZZ	1.00	05:10																									
ZZZZZZ	1.00	05:15																									
ZZZZZZ	1.00	05:20																									
ZZZZZZ	1.00	05:25																									
CCV	1.00	05:31				X			X	X					X	X				X			X				
CCB	1.00	05:35				X			X	X					X	X				X			X				
ZZZZZZ	1.00	05:40																									
ZZZZZZ	5.00	05:45																									
ZZZZZZ	1.00	05:50																									
ZZZZZZ	1.00	05:55																									
ZZZZZZ	1.00	05:59																									
ZZZZZZ	1.00	06:04																									
ZZZZZZ	1.00	06:09																									
ZZZZZZ	1.00	06:14																									
ZZZZZZ	1.00	06:19																									
ZZZZZZ	1.00	06:24																									
CCV	1.00	06:30				X			X	X					X	X				X			X				
CCB	1.00	06:34				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:39																									
ZZZZZZ	1.00	06:44																									
ZZZZZZ	1.00	06:49																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022402

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/1/04 End Date: 3/2/04

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	06:54																									
ZZZZZZ	1.00	06:59																									
CRI	1.00	07:05				X			X	X					X	X				X			X				
ICSA	1.00	07:09				X			X	X					X	X				X			X				
ICSAB	1.00	07:14				X			X	X					X	X				X			X				
CCV	1.00	07:20				X			X	X					X	X				X			X				
CCB	1.00	07:25				X			X	X					X	X				X			X				

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METHODS SUMMARY

Job#: A04-1586,A04-1588,A04-1613,A04-1625,A04-1626,A04-1652, A04-1654,A04-1661,A04-1666,A04-1668,A04-1671,A04-1712

STL Project#: NY3A9122
SDG#: 022701
Site Name: NEW YORK POWER AUTHORITY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8290 - TCL DIOXINS & FURANS	SW8463 8290
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Mercury - Total	SW8463 7470
Potassium - Total	SW8463 6010
Sodium - Total	SW8463 6010
Bicarbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0
E Coli	SM18 9221
Sulfate	MCAWW 300.0
Total Alkalinity	MCAWW 310.1
Total Bacteria Coliform	SM18 9222B
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2
Total Organic Carbon	MCAWW 415.1
Total Suspended Solids	MCAWW 160.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

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NON-CONFORMANCE SUMMARY

Job#: A04-1586,A04-1588,A04-1613,A04-1625,A04-1626,A04-1652,
A04-1654,A04-1661,A04-1666,A04-1668,A04-1671,A04-1712

STL Project#: NY3A9122
SDG#: 022701
Site Name: NEW YORK POWER AUTHORITY

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-1586
Sample Cooler(s) were received at the following temperature(s); 5@3.0 °C
All samples were received in good condition.
A04-1588
Sample Cooler(s) were received at the following temperature(s); 5@3.0 °C
All samples were received in good condition.
A04-1613
Sample Cooler(s) were received at the following temperature(s); 10@2.0 °C
All samples were received in good condition.
A04-1625
Sample Cooler(s) were received at the following temperature(s); 10 @ 2.0 °C
All samples were received in good condition.
A04-1626
Sample Cooler(s) were received at the following temperature(s); 10 @ 2.0 °C
All samples were received in good condition.
A04-1652
Sample Cooler(s) were received at the following temperature(s); 7@4.0 °C
Point GW03-007A-P2 was received but was not on the COC as having HPC or Coliforms.

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A04-1654

Sample Cooler(s) were received at the following temperature(s); 7@4.0 °C
The T-HARD for point GW03-004A-P2 was received with limited volume. Additional volume was poured from the metals to the hardness bottle.

1-1lGA for Pesticide analysis was received empty for point GW03-007A-P2. Enough volume remained to complete the analysis.

Points GW03-004A-P1 and GW03-007A-P2 were listed on the COC as partial points. There was nothing missing from point GW03-007A-P2 and point GW03-004A-P1 was only missing the PEST bottles.

Sample GW03-007A-P1 was listed on the first page of the Chain-of-Custody correctly, however the second page incorrectly identifed the sample as GW03-017A-P1. Based on sample times and the sampler's labels, the sample was logged in as GW03-007A-P1. The client has been notifed of the discrepancy.

A04-1661

Sample Cooler(s) were received at the following temperature(s); 7@4.0 °C
All samples were received in good condition.

A04-1666

Sample Cooler(s) were received at the following temperature(s); 3,3,4,4 °C
Point GW03-008B-P4 was listed on COC 2 of 2 as GW03-008A-P4. Due to client request the point was logged in as GW03-008B-P4.

A04-1668

Sample Cooler(s) were received at the following temperature(s); 3,3,4,4 °C
Point GW03-008B-P4 was listed on COC 2 of 2 as GW03-008A-P4. Due to client request the point was logged in as GW03-008B-P4.

A04-1671

Sample Cooler(s) were received at the following temperature(s); 3,3,4,4 °C
Point GW03-008B-P4 was listed on COC 2 of 2 as GW03-008A-P4. Due to client request the point was logged in as GW03-008B-P4.

A04-1712

Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

All volatile samples exhibited a pH of 7 at the time of analysis. The analysis was performed within 7 days of sampling, therefore there is no impact on data usability.

Initial calibration standard curve A4I0000115-1 exhibited the %RSD of the compound Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 7.07%.

Initial calibration standard curve A4I0000143-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 9.98%.

Initial calibration standard curve A4I0000107-1 exhibited the %RSD of the compounds Bromomethane, Methylene Chloride and Acetone as greater than 15%. However, the mean RSD of all compounds is 6.80%.

Initial calibration standard curve A4I0000144-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 10.00%.

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Initial calibration standard curve A4I0000153-1 exhibited the %RSD of the compounds Acetone, Chloroethane and Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 6.32%.

The spike recovery of the analyte Toluene in the Matrix Spike and Matrix Spike Duplicate of sample GW03-014B-P4 exceeded STL QC limits. The Matrix Spike Blank recoveries were compliant, so no corrective action is required.

The presence of the analytes Acetone and 2-Butanone on sample GW03-014A-P1 were inconsistent with historical trends. Reanalysis was performed and their presence was confirmed. Only the results from the original analysis is provided in this data package.

GC/MS Semivolatile Data

Linear regression was used to calibrate analytes that were greater than 15% RSD in the initial calibration A4I0000139.

The recovery of surrogate Phenol-D5 was below laboratory derived quality control limits in the sample GW03-007A-P3. The sample was re-extracted outside of holding time with compliant results. Both sets of data will be reported.

The analyte Bis(2-ethylhexyl) Phthalate was detected in the Method Blank A4B0633402 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The recovery of surrogates 2,4,6-Tribromophenol and 2-Fluorobiphenyl were above control limits for sample EB1-BAILER-BLANK. Based on US EPA CLP National Functional Guidelines for Data Review, one surrogate per fraction (BN/AP) is allowed to exceed quality control limits. No corrective action was taken.

Dioxins and Furans were subcontracted to STL Knoxville. All data is included in this report as Appendix A.

GC Extractable Data

For method 8081, the recovery of surrogate Tetrachloro-m-xylene in sample GW03-001A-P2 is biased high and is outside of established quality control limits due to the sample matrix and dilution. The recovery of surrogate Decachlorobiphenyl is within quality control criteria; no corrective action is required.

For method 8081 and 8082, the extracts for several samples required treatment with Copper prior to analysis due to the presence of elemental Sulfur. This is indicated for field samples and the associated batch quality control extracts in the injection logbook and on the individual report Form-1. The raw run data for any untreated extracts has been included in the raw quality control section of the data package.

For method 8081, the laboratory quality control sample extracts for batch A4B06373 were not analyzed prior to copper cleanup. The associated recoveries for all spikes and surrogates are within control limits, no further action necessary.

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For method 8081, several compounds exhibited a percent difference greater than 15% from the expected amount in the associated continuing calibrations. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant with quality control criteria. No corrective action is required.

For method 8081, the relative percent difference between the Matrix Spike and the Matrix Spike Duplicate of sample GW03-010B-P6 exceeds quality control criteria for 4,4'-DDE and Methoxychlor, though all individual recoveries are compliant. No corrective action is required.

Metals Data

The recovery of samples GW03-013C-P7 and GW03-004A-P1 Post Spikes exhibited results below the quality control limits for Calcium. The recovery of sample GW03-003A-P1 Post Spike exhibited results below the quality control limits for Calcium and Magnesium. The recovery of sample GW03-003A-P2 Post Spike exhibited results above the quality control limits for Sodium. However, the LFB was acceptable.

Wet Chemistry Data

Total Plate Count, E. Coli and Total Coliform were subcontracted to ACTS Testing Laboratory. All data is included in this report as Appendix A.

The value obtained for TDS on sample GW03-001A-P2 is inconsistent with historical trends. The value was confirmed by the conductivity ratio. .

The values obtained for Total Hardness on samples GW03-014B-P4, GW03-007A-P3, and GW03-010A-P2 is inconsistent with historical trends. Reanalysis was performed and the values were confirmed. Only the result from the original analysis is provided in this data package.

The values obtained for TDS on samples GW03-010B-P4 and GW03-010B-P5 are inconsistent with historical trends. The values were confirmed by the conductivity ratio.

The value obtained for Total Hardness on sample GW003-010B-P4 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The values obtained for TDS on samples GW03-003A-P1 and GW03-010C-P7 are inconsistent with historical trends. The values were confirmed by the conductivity ratio.

The values obtained for Total Organic Carbon on samples GW03-003A-P1, GW03-008B-P4, and GW03-010C-P7 are inconsistent with historical trends. Reanalysis was performed and the values were confirmed. Only the results from the original analysis are provided in this data package.

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The value obtained for Total Hardness on sample GW03-008B-P4 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000421

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022701

Lab File ID: K6696 BFB Injection Date: 03/02/2004

Instrument ID: I50K BFB Injection Time: 08:56

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.3		
75	30.0 - 60.0% of mass 95	43.9		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.2		
173	Less than 2.0% of mass 174	0.1	(0.1)	1
174	50 - 120 % of mass 95	59.0		
175	5.0 - 9.0% of mass 174	4.3	(7.3)	1
176	95.0 - 101.0% of mass 174	59.4	(100.6)	1
177	5.0 - 9.0% of mass 176	3.9	(6.5)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000552-1	K6697.RR	03/02/2004	09:30
2	MSB84	A4165412	K6698.RR	03/02/2004	10:22
3	VBLK84	A4165411	K6699.RR	03/02/2004	10:56
4	TBA1-030104	A4165410	K6700.RR	03/02/2004	11:30
5	TBD1-030104	A4165409	K6701.RR	03/02/2004	12:04
6	TBC1-030104	A4165408	K6702.RR	03/02/2004	12:38
7	GW03-007A-P2	A4165407	K6703.RR	03/02/2004	13:11
8	GW03-017A-P2	A4165406	K6704.RR	03/02/2004	13:46
9	GW03-010B-P5	A4165405	K6705.RR	03/02/2004	14:19
10	GW03-010B-P4	A4165404	K6706.RR	03/02/2004	14:54
11	GW03-010B-P6	A4165403	K6707.RR	03/02/2004	15:28
12	GW03-004A-P2	A4165402	K6708.RR	03/02/2004	16:02
13	GW03-004A-P1	A4165401	K6709.RR	03/02/2004	16:37
14	GW03-017A-P2 DL	A4165406DL	K6710.RR	03/02/2004	17:21

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000552-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

Lab File Id: K6697.RR Calibration Date: 03/02/2004 Time: 09:30

Intrument ID: I50K Init. Calib. Date(s): 02/19/2004 02/19/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:05 13:13

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0260	0.0185	0.0100	28.800	100.00
Benzene	1.2040	1.0978	0.0100	8.800	100.00
Bromodichloromethane	0.7080	0.6538	0.0100	7.600	100.00
Bromoform	0.5040	0.4368	0.1000	13.300	100.00
Bromomethane	0.3740	0.2725	0.0100	27.100	100.00
2-Butanone	0.0490	0.0347	0.0100	29.200	100.00
Methyl acetate	0.1230	0.0905	0.0100	26.400	100.00
Cyclohexane	0.6530	0.5461	0.0100	16.400	100.00
Methylcyclohexane	0.5800	0.5157	0.0100	11.100	100.00
Carbon Disulfide	1.0220	0.8758	0.0100	14.300	100.00
Carbon Tetrachloride	0.6240	0.5599	0.0100	10.300	100.00
Chlorobenzene	1.2080	1.1362	0.3000	5.900	100.00
Chloroethane	0.2560	0.2423	0.0100	5.400	100.00
Chloroform	0.8430	0.7634	0.0100	9.400	20.00
Chloromethane	0.3660	0.2837	0.1000	22.500	100.00
Dibromochloromethane	0.5640	0.5446	0.0100	3.400	100.00
1,2-Dibromo-3-chloropropane	0.1130	0.0974	0.0100	13.800	100.00
1,2-Dibromoethane	0.4420	0.4092	0.0100	7.400	100.00
1,2-Dichlorobenzene	1.4690	1.3572	0.0100	7.600	100.00
1,3-Dichlorobenzene	1.7870	1.5733	0.0100	12.000	100.00
1,4-Dichlorobenzene	1.8470	1.7173	0.0100	7.000	100.00
Dichlorodifluoromethane	0.5480	0.4075	0.0100	25.600	100.00
1,1-Dichloroethane	0.8530	0.7419	0.1000	13.000	100.00
1,2-Dichloroethane	0.3910	0.3238	0.0100	17.200	100.00
1,1-Dichloroethene	0.3990	0.3672	0.0100	8.000	100.00
cis-1,2-Dichloroethene	0.4490	0.4138	0.0100	7.800	100.00
trans-1,2-Dichloroethene	0.4390	0.4016	0.0100	8.500	100.00
1,2-Dichloropropane	0.4920	0.4161	0.0100	15.400	20.00
cis-1,3-Dichloropropene	0.5970	0.5152	0.0100	13.700	100.00
trans-1,3-Dichloropropene	0.5210	0.4558	0.0100	12.500	100.00
Ethylbenzene	1.9970	1.9662	0.0100	1.500	20.00
2-Hexanone	0.1320	0.0906	0.0100	31.400	100.00
Isopropylbenzene	3.0800	2.9055	0.0100	5.700	100.00
Methylene chloride	0.3870	0.3334	0.0100	13.800	100.00
4-Methyl-2-pentanone	0.2080	0.1450	0.0100	30.300	100.00
Styrene	1.1040	1.0383	0.0100	6.000	100.00
1,1,2,2-Tetrachloroethane	0.6300	0.6117	0.3000	2.900	100.00
Tetrachloroethene	0.8640	0.7778	0.0100	10.000	100.00
Toluene	0.9940	0.9628	0.0100	3.100	20.00

4/28/04 m

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ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000552-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

ab File Id: K6697.RR Calibration Date: 03/02/2004 Time: 09:30

ntrument ID: I50K Init. Calib. Date(s): 02/19/2004 02/19/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:05 13:13

C Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.2770	1.0406	0.0100	18.500	100.00
1,1,1-Trichloroethane	0.7310	0.6709	0.0100	8.200	100.00
1,1,2-Trichloroethane	0.3090	0.2844	0.0100	8.000	100.00
Trichloroethene	0.5550	0.4933	0.0100	11.100	100.00
Trichlorofluoromethane	0.8860	0.7147	0.0100	19.300	100.00
Vinyl chloride	0.4050	0.3373	0.0100	16.700	20.00
Total Xylenes	0.7200	0.7022	0.0100	2.500	100.00
Methyl tert butyl ether	0.5570	0.4039	0.0100	27.500	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.7890	0.6916	0.0100	12.300	100.00
1,2-Dichloroethane-D4	0.3010	0.2649	0.0100	12.000	100.00
Toluene-D8	1.3060	1.3146	0.0100	-0.700	100.00
p-Bromofluorobenzene	0.6320	0.5377	0.0100	14.900	100.00

4/28/04 [illegible]

FORM VII VOA

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000420

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022701

Lab File ID: L4432 BFB Injection Date: 03/02/2004

Instrument ID: I50L BFB Injection Time: 08:55

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.1		
75	30.0 - 60.0% of mass 95	49.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.0		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	87.5		
175	5.0 - 9.0% of mass 174	5.3	(6.1)	1
176	95.0 - 101.0% of mass 174	85.4	(97.6)	1
177	5.0 - 9.0% of mass 176	4.6	(5.4)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000551-1	L4433.RR	03/02/2004	09:47
2	MSB95	A4166610	L4434.RR	03/02/2004	10:39
3	VBLK95	A4166609	L4435.RR	03/02/2004	11:12
4	TBB1-030104	A4166605	L4436.RR	03/02/2004	12:31
5	TBD2-030104	A4166606	L4437.RR	03/02/2004	13:03
6	TBA2-030104	A4166607	L4438.RR	03/02/2004	13:35
7	TBC2-030104	A4166608	L4439.RR	03/02/2004	14:08
8	GW03-003A-P1	A4166601	L4440.RR	03/02/2004	14:40
9	GW03-008B-P4	A4166602	L4441.RR	03/02/2004	15:13
10	GW03-010C-P7	A4166603	L4442.RR	03/02/2004	15:45
11	GW03-014A-P3	A4166604	L4443.RR	03/02/2004	16:17

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000551-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

Lab File Id: L4433.RR Calibration Date: 03/02/2004 Time: 09:47

Intrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0680	0.0494	0.0100	27.400	100.00
Benzene	0.8480	0.6965	0.0100	17.900	100.00
Bromodichloromethane	0.7010	0.5810	0.0100	17.100	100.00
Bromoform	0.4780	0.4248	0.1000	11.100	100.00
Bromomethane	0.5340	0.4526	0.0100	15.200	100.00
2-Butanone	0.0630	0.0343	0.0100	45.600	100.00
Methyl acetate	0.2690	0.1945	0.0100	27.700	100.00
Cyclohexane	0.3860	0.2925	0.0100	24.200	100.00
Methylcyclohexane	0.4230	0.3558	0.0100	15.900	100.00
Carbon Disulfide	1.2000	0.9359	0.0100	22.000	100.00
Carbon Tetrachloride	0.7720	0.6952	0.0100	9.900	100.00
Chlorobenzene	1.0520	0.9040	0.3000	14.100	100.00
Chloroethane	0.4100	0.3176	0.0100	22.500	100.00
Chloroform	0.6720	0.5699	0.0100	15.200	20.00
Chloromethane	0.2770	0.2220	0.1000	19.800	100.00
Dibromochloromethane	0.6740	0.5943	0.0100	11.800	100.00
1,2-Dibromo-3-chloropropane	0.1240	0.1000	0.0100	19.400	100.00
1,2-Dibromoethane	0.4310	0.3688	0.0100	14.400	100.00
1,2-Dichlorobenzene	1.5150	1.2686	0.0100	16.300	100.00
1,3-Dichlorobenzene	1.7700	1.4969	0.0100	15.400	100.00
1,4-Dichlorobenzene	1.7430	1.5131	0.0100	13.200	100.00
Dichlorodifluoromethane	0.4390	0.3569	0.0100	18.700	100.00
1,1-Dichloroethane	0.9780	0.8262	0.1000	15.500	100.00
1,2-Dichloroethane	0.3960	0.3304	0.0100	16.600	100.00
1,1-Dichloroethene	0.5210	0.4388	0.0100	15.800	100.00
cis-1,2-Dichloroethene	0.4820	0.2886	0.0100	40.100	100.00
trans-1,2-Dichloroethene	0.5640	0.4792	0.0100	15.000	100.00
1,2-Dichloropropane	0.3330	0.2704	0.0100	18.800	20.00
cis-1,3-Dichloropropene	0.5420	0.4515	0.0100	16.700	100.00
trans-1,3-Dichloropropene	0.4390	0.3614	0.0100	17.700	100.00
Ethylbenzene	1.7270	1.4060	0.0100	18.600	20.00
2-Hexanone	0.1550	0.1075	0.0100	30.600	100.00
Isopropylbenzene	2.2400	1.8954	0.0100	15.400	100.00
Methylene chloride	0.5270	0.4169	0.0100	20.900	100.00
4-Methyl-2-pentanone	0.2360	0.1587	0.0100	32.800	100.00
Styrene	1.0670	0.9179	0.0100	14.000	100.00
1,1,2,2-Tetrachloroethane	0.6340	0.4896	0.3000	22.800	100.00
Tetrachloroethene	0.6890	0.6270	0.0100	9.000	100.00
Toluene	0.6720	0.5835	0.0100	13.200	20.00

4/28/04 m

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000551-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

Lab File Id: L4433.RR Calibration Date: 03/02/2004 Time: 09:47

Intrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.2910	1.0237	0.0100	20.700	100.00
1,1,1-Trichloroethane	0.7410	0.6331	0.0100	14.600	100.00
1,1,2-Trichloroethane	0.2650	0.2214	0.0100	16.400	100.00
Trichloroethene	0.4410	0.3674	0.0100	16.700	100.00
Trichlorofluoromethane	1.4120	1.3231	0.0100	6.300	100.00
Vinyl chloride	0.3890	0.3164	0.0100	18.700	20.00
Total Xylenes	0.6600	0.5628	0.0100	14.700	100.00
Methyl tert butyl ether	1.1930	0.8507	0.0100	28.700	100.00
1,1,2-Trichloro-1,2,2-trifluoro	1.0030	0.8948	0.0100	10.800	100.00
1,2-Dichloroethane-D4	0.3640	0.3206	0.0100	11.900	100.00
Toluene-D8	1.0340	0.9912	0.0100	4.100	100.00
p-Bromofluorobenzene	0.6770	0.6400	0.0100	5.500	100.00

4/28/04 JR

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000397

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022701

Lab File ID: M8288 BFB Injection Date: 02/27/2004

Instrument ID: I50M BFB Injection Time: 21:23

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.1		
75	30.0 - 60.0% of mass 95	45.5		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.6		
173	Less than 2.0% of mass 174	0.2	(0.2)	1
174	50 - 120 % of mass 95	76.7		
175	5.0 - 9.0% of mass 174	5.2	(6.8)	1
176	95.0 - 101.0% of mass 174	75.2	(98.1)	1
177	5.0 - 9.0% of mass 176	4.5	(6.0)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000533-1	M8289.RR	02/27/2004	21:40
2	MSB05	A4158804	M8290.RR	02/27/2004	22:12
3	VBLK05	A4158803	M8291.RR	02/27/2004	22:41
4	TB-A2-022604	A4158802	M8294.RR	02/28/2004	00:08
5	GW03-013C-P7	A4158801	M8296.RR	02/28/2004	01:06

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000533-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

Lab File Id: M8289.RR Calibration Date: 02/27/2004 Time: 21:40

Intrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

Heated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0330	0.0334	0.0100	-1.200	100.00
Benzene	1.3830	1.3837	0.0100	-0.100	100.00
Bromodichloromethane	0.3180	0.3254	0.0100	-2.300	100.00
Bromoform	0.2400	0.2307	0.1000	3.900	100.00
Bromomethane	0.2610	0.1300	0.0100	50.200	100.00
2-Butanone	0.0580	0.0617	0.0100	-6.400	100.00
Methyl acetate	0.1360	0.1298	0.0100	4.600	100.00
Cyclohexane	0.6480	0.6133	0.0100	5.400	100.00
Methylcyclohexane	0.5930	0.5459	0.0100	7.900	100.00
Carbon Disulfide	0.9930	0.9295	0.0100	6.400	100.00
Carbon Tetrachloride	0.3090	0.3058	0.0100	1.000	100.00
Chlorobenzene	1.0690	1.0208	0.3000	4.500	100.00
Chloroethane	0.2650	0.2370	0.0100	10.600	100.00
Chloroform	0.5140	0.5206	0.0100	-1.300	20.00
Chloromethane	0.5010	0.4171	0.1000	16.700	100.00
Dibromochloromethane	0.2100	0.2150	0.0100	-2.400	100.00
1,2-Dibromo-3-chloropropane	0.0510	0.0443	0.0100	13.100	100.00
1,2-Dibromoethane	0.1730	0.1721	0.0100	0.500	100.00
1,2-Dichlorobenzene	1.3130	1.1883	0.0100	9.500	100.00
1,3-Dichlorobenzene	1.6690	1.5000	0.0100	10.100	100.00
1,4-Dichlorobenzene	1.7190	1.5265	0.0100	11.200	100.00
Dichlorodifluoromethane	0.2750	0.2364	0.0100	14.000	100.00
1,1-Dichloroethane	0.5930	0.5913	0.1000	0.300	100.00
1,2-Dichloroethane	0.2390	0.2537	0.0100	-6.200	100.00
1,1-Dichloroethene	0.2810	0.2705	0.0100	3.700	100.00
cis-1,2-Dichloroethene	0.3630	0.3652	0.0100	-0.600	100.00
trans-1,2-Dichloroethene	0.3400	0.3430	0.0100	-0.900	100.00
1,2-Dichloropropane	0.3340	0.3359	0.0100	-0.600	20.00
cis-1,3-Dichloropropene	0.4180	0.3805	0.0100	9.000	100.00
trans-1,3-Dichloropropene	0.3510	0.3418	0.0100	2.600	100.00
Ethylbenzene	1.8150	1.7761	0.0100	2.100	20.00
2-Hexanone	0.1130	0.1200	0.0100	-6.200	100.00
Isopropylbenzene	4.0730	3.7153	0.0100	8.800	100.00
Methylene chloride	0.3180	0.3162	0.0100	0.600	100.00
4-Methyl-2-pentanone	0.1680	0.1765	0.0100	-5.000	100.00
Styrene	1.0880	0.9816	0.0100	9.800	100.00
1,1,2,2-Tetrachloroethane	0.4580	0.4740	0.3000	-3.500	100.00
Tetrachloroethene	0.4360	0.4277	0.0100	1.900	100.00
Toluene	1.1030	1.0752	0.0100	2.500	20.00

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FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000533-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

Lab File Id: M8289.RR Calibration Date: 02/27/2004 Time: 21:40

Intrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

Heated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8850	0.6996	0.0100	20.900	100.00
1,1,1-Trichloroethane	0.3970	0.3800	0.0100	4.300	100.00
1,1,2-Trichloroethane	0.1770	0.1864	0.0100	-5.300	100.00
Trichloroethene	0.3440	0.3293	0.0100	4.300	100.00
Trichlorofluoromethane	0.3620	0.3242	0.0100	10.400	100.00
Vinyl chloride	0.4330	0.3775	0.0100	12.800	20.00
Total Xylenes	0.6930	0.6377	0.0100	8.000	100.00
Methyl tert butyl ether	0.4410	0.3934	0.0100	10.800	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2710	0.2740	0.0100	-1.100	100.00
1,2-Dichloroethane-D4	0.1920	0.2097	0.0100	-9.200	100.00
Toluene-D8	1.4250	1.4633	0.0100	-2.700	100.00
p-Bromofluorobenzene	0.3400	0.3390	0.0100	0.300	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000402

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022701

Lab File ID: N4530 BFB Injection Date: 03/01/2004

Instrument ID: HP5973N BFB Injection Time: 12:20

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	17.5		
75	30.0 - 60.0% of mass 95	50.9		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.4		
173	Less than 2.0% of mass 174	0.3	(0.4)	1
174	50 - 120 % of mass 95	66.1		
175	5.0 - 9.0% of mass 174	5.4	(8.2)	1
176	95.0 - 101.0% of mass 174	63.0	(95.3)	1
177	5.0 - 9.0% of mass 176	4.1	(6.5)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000536-1	N4531.RR	03/01/2004	12:47
2	MSB26	A4162515	N4532.RR	03/01/2004	13:54
3	VBLK26	A4162514	N4533.RR	03/01/2004	14:33
4	TBB1-022704	A4162513	N4534.RR	03/01/2004	15:04
5	TBD1-022704	A4162512	N4535.RR	03/01/2004	15:34
6	TBA1-022704	A4162511	N4536.RR	03/01/2004	16:05
7	TBC1-022704	A4162510	N4537.RR	03/01/2004	16:35
8	GW03-001A-P2	A4162508	N4538.RR	03/01/2004	17:06
9	GW03-007A-P1	A4162507	N4539.RR	03/01/2004	17:36
10	GW03-007A-P3	A4162506	N4540.RR	03/01/2004	18:06
11	EB1-BAILER BLANK	A4162505	N4541.RR	03/01/2004	18:37
12	GW03-013B-P6	A4162504	N4542.RR	03/01/2004	19:07
13	GW03-010A-P2	A4162503	N4543.RR	03/01/2004	19:38
14	GW03-014B-P4	A4162502	N4544.RR	03/01/2004	20:08
15	GW03-014B-P4MS	A4162502MS	N4545.RR	03/01/2004	20:39
16	GW03-014B-P4SD	A4162502SD	N4546.RR	03/01/2004	21:09
17	GW03-014A-P1	A4162501	N4547.RR	03/01/2004	21:40

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000536-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

Lab File Id: N4531.RR Calibration Date: 03/01/2004 Time: 12:47

Intrument ID: HP5973N Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 09:19 11:51

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.4050	0.4119	0.1000	-1.700	100.00
Bromomethane	0.2330	0.2361	0.0100	-1.300	100.00
Vinyl chloride	0.4520	0.4703	0.0100	-4.000	20.00
Chloroethane	0.2550	0.2717	0.0100	-6.500	100.00
Methylene chloride	0.3690	0.3446	0.0100	6.600	100.00
Acetone	0.0330	0.0306	0.0100	7.300	100.00
Carbon Disulfide	1.4180	1.4470	0.0100	-2.000	100.00
1,1-Dichloroethene	0.4100	0.4101	0.0100	0.000	100.00
1,1-Dichloroethane	0.8400	0.8251	0.1000	1.800	100.00
cis-1,2-Dichloroethene	0.4030	0.4100	0.0100	-1.700	100.00
trans-1,2-Dichloroethene	0.4590	0.4575	0.0100	0.300	100.00
Chloroform	0.8990	0.8731	0.0100	2.900	20.00
1,2-Dichloroethane	0.4480	0.4311	0.0100	3.800	100.00
2-Butanone	0.0370	0.0350	0.0100	5.400	100.00
1,1,1-Trichloroethane	0.9680	0.9551	0.0100	1.300	100.00
Carbon Tetrachloride	0.7560	0.7392	0.0100	2.200	100.00
Bromodichloromethane	0.5190	0.4922	0.0100	5.200	100.00
1,2-Dichloropropane	0.3450	0.3342	0.0100	3.100	20.00
cis-1,3-Dichloropropene	0.4750	0.4671	0.0100	1.700	100.00
Trichloroethene	0.4840	0.4832	0.0100	0.200	100.00
Dibromochloromethane	0.2520	0.2414	0.0100	4.200	100.00
1,1,2-Trichloroethane	0.1990	0.1946	0.0100	2.200	100.00
Benzene	1.8230	1.8039	0.0100	1.000	100.00
trans-1,3-Dichloropropene	0.6360	0.6401	0.0100	-0.600	100.00
Bromoform	0.2280	0.2166	0.1000	5.000	100.00
4-Methyl-2-pentanone	0.1120	0.1149	0.0100	-2.600	100.00
2-Hexanone	0.0720	0.0743	0.0100	-3.200	100.00
Tetrachloroethene	0.5480	0.5630	0.0100	-2.700	100.00
1,1,2,2-Tetrachloroethane	0.4290	0.4056	0.3000	5.400	100.00
Toluene	1.4240	1.4476	0.0100	-1.600	20.00
Chlorobenzene	1.2940	1.2689	0.3000	1.900	100.00
Ethylbenzene	3.0600	3.1786	0.0100	-3.900	20.00
Styrene	1.2680	1.3031	0.0100	-2.800	100.00
Total Xylenes	0.8850	0.9171	0.0100	-3.600	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.4550	0.4726	0.0100	-3.900	100.00
1,2,4-Trichlorobenzene	0.9580	0.9741	0.0100	-1.700	100.00
1,2-Dibromo-3-chloropropane	0.0730	0.0701	0.0100	4.000	100.00
1,2-Dibromoethane	0.1860	0.1801	0.0100	3.200	100.00
1,2-Dichlorobenzene	1.4560	1.4603	0.0100	-0.300	100.00

4/28/04

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000536-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

Lab File Id: N4531.RR Calibration Date: 03/01/2004 Time: 12:47

Intrument ID: HP5973N Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 09:19 11:51

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,3-Dichlorobenzene	1.9200	1.9216	0.0100	-0.100	100.00
1,4-Dichlorobenzene	1.8460	1.8273	0.0100	1.000	100.00
Cyclohexane	0.6390	0.6814	0.0100	-6.600	100.00
Dichlorodifluoromethane	0.7210	0.7659	0.0100	-6.200	100.00
Methyl acetate	0.0850	0.0784	0.0100	7.800	100.00
Trichlorofluoromethane	0.8470	0.8986	0.0100	-6.100	100.00
Methyl tert butyl ether	0.5100	0.4948	0.0100	3.000	100.00
Isopropylbenzene	5.4240	5.9040	0.0100	-8.800	100.00
Methylcyclohexane	0.6940	0.7456	0.0100	-7.400	100.00
Toluene-D8	1.6580	1.7026	0.0100	-2.700	100.00
p-Bromofluorobenzene	0.3510	0.3571	0.0100	-1.700	100.00
1,2-Dichloroethane-D4	0.3430	0.3264	0.0100	4.800	100.00

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SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000448

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022701

Lab File ID: V02545 DFTPP Injection Date: 03/08/2004

Instrument ID: HP5973V DFTPP Injection Time: 10:02

m/e	ION Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	37.0		
68	Less than 2.0% of mass 69	0.0	(0.0)	1
69	Present	40.7		
70	Less than 2.0% of mass 69	0.3	(0.8)	1
127	40.0 - 60.0% of mass 198	49.9		
197	Less than 1.0% of mass 198	0.4		
198	Base peak, 100% relative abundance	100.0		
199	5.0 - 9.0% of mass 198	7.2		
275	10.0 - 30.0% of mass 198	27.3		
365	Greater than 1.00% of mass 198	3.1		
441	Present, but less than mass 443	14.3		
442	40.0 - 110.0% of mass 198	97.6		
443	17.0 - 23.0% of mass 442	19.1	(19.6)	2

1-Value is % mass 69 2-Value is % mass 442

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	SSTD050	A4C0000578-1	V02546.RR	03/08/2004	10:19
2	SSTD050	A4C0000578-2	V02547.RR	03/08/2004	10:47
3	Matrix Spike Blank	A4B0633401	V02561.RR	03/08/2004	17:09
4	S Blank	A4B0633402	V02562.RR	03/08/2004	17:36
5	GW03-014A-P1	A4162501	V02564.RR	03/08/2004	18:30
6	GW03-014B-P4	A4162502	V02565.RR	03/08/2004	18:57
7	GW03-014B-P4MS	A4162502MS	V02566.RR	03/08/2004	19:24
8	GW03-014B-P4SD	A4162502SD	V02567.RR	03/08/2004	19:51
9	GW03-010A-P2	A4162503	V02568.RR	03/08/2004	20:18
10	EB1-BAILER BLANK	A4162505	V02569.RR	03/08/2004	20:45
11	GW03-007A-P3	A4162506	V02570.RR	03/08/2004	21:12
12	GW03-007A-P1	A4162507	V02571.RR	03/08/2004	21:40

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000578-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

Lab File Id: V02546.RR Calibration Date: 03/08/2004 Time: 10:19

Instrument ID: HP5973V Init. Calib. Date(s): 02/26/2004 02/26/2004

Init. Calib. Times: 08:40 11:06

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
Phenol	1.9130	1.8569	0.0500	2.900	20.00
Bis(2-chloroethyl) ether	1.3540	1.3246	0.0500	2.200	25.00
2-Chlorophenol	1.3660	1.3939	0.0500	-2.000	25.00
2-Methylphenol	1.2460	1.2592	0.0500	-1.000	25.00
2,2'-Oxybis(1-Chloropropane)	1.6020	1.4595	0.0500	8.900	25.00
4-Methylphenol	1.3550	1.3533	0.0500	0.100	25.00
N-Nitroso-Di-n-propylamine	1.0040	0.9529	0.0500	5.100	25.00
Hexachloroethane	0.5650	0.5464	0.0500	3.300	25.00
Nitrobenzene	0.3650	0.3453	0.0500	5.400	25.00
Isophorone	0.6600	0.6625	0.0500	-0.400	25.00
2-Nitrophenol	0.1530	0.1827	0.0500	-19.400	20.00
2,4-Dimethylphenol	0.3240	0.3214	0.0500	0.800	25.00
Bis(2-chloroethoxy) methane	0.3890	0.3829	0.0500	1.600	25.00
2,4-Dichlorophenol	0.2530	0.2642	0.0500	-4.400	20.00
Naphthalene	1.0230	1.0203	0.0500	0.300	25.00
4-Chloroaniline	0.3950	0.4140	0.0500	-4.800	25.00
Hexachlorobutadiene	0.1460	0.1488	0.0500	-1.900	20.00
4-Chloro-3-methylphenol	0.2920	0.2989	0.0500	-2.400	20.00
2-Methylnaphthalene	0.6530	0.6713	0.0500	-2.800	25.00
Hexachlorocyclopentadiene	0.3230	0.3336	0.0500	-3.300	25.00
2,4,6-Trichlorophenol	0.3050	0.3521	0.0500	-15.400	25.00
2,4,5-Trichlorophenol	0.3470	0.3821	0.0500	-10.100	25.00
2-Chloronaphthalene	1.1180	1.1529	0.0500	-3.100	25.00
2-Nitroaniline	0.3280	0.3395	0.0500	-3.500	25.00
Dimethyl phthalate	1.2200	1.3056	0.0500	-7.000	25.00
Acenaphthylene	1.8240	1.9216	0.0500	-5.400	25.00
2,6-Dinitrotoluene	0.2680	0.3080	0.0500	-14.900	25.00
3-Nitroaniline	0.3030	0.3474	0.0500	-14.600	25.00
Acenaphthene	1.1550	1.1724	0.0500	-1.500	20.00
2,4-Dinitrophenol	0.1300	0.1785	0.0500	-37.300	40.00
4-Nitrophenol	0.1810	0.1830	0.0500	-1.100	40.00
Dibenzofuran	1.6140	1.6763	0.0500	-3.800	25.00
2,4-Dinitrotoluene	0.3630	0.3973	0.0500	-9.400	25.00
Diethyl phthalate	1.2120	1.2575	0.0500	-3.800	25.00
4-Chlorophenyl phenyl ether	0.6160	0.6508	0.0500	-5.600	25.00
Fluorene	1.3290	1.4125	0.0500	-6.300	25.00
4-Nitroaniline	0.2950	0.3478	0.0500	-17.900	25.00
4,6-Dinitro-2-methylphenol	0.1150	0.1433	0.0500	-24.600	40.00
N-nitrosodiphenylamine	0.5660	0.5777	0.0500	-2.100	20.00

4/30/04

FORM VII SV-1

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CONTINUING CALIBRATION CHECK

ab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000578-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 022701

ab File Id: V02546.RR Calibration Date: 03/08/2004 Time: 10:19

ntrument ID: HP5973V Init. Calib. Date(s): 02/26/2004 02/26/2004

Init. Calib. Times: 08:40 11:06

COMPOUND	AVG RRF	RRF50	MIN RRF	% D	MAX % D
4-Bromophenyl phenyl ether	0.2060	0.2093	0.0500	-1.600	25.00
Hexachlorobenzene	0.2130	0.2158	0.0500	-1.300	25.00
Pentachlorophenol	0.1290	0.1412	0.0500	-9.400	20.00
Phenanthrene	1.0860	1.0772	0.0500	0.800	25.00
Anthracene	1.1360	1.1537	0.0500	-1.600	25.00
Di-n-butyl phthalate	1.2500	1.2883	0.0500	-3.100	25.00
Fluoranthene	1.2140	1.2352	0.0500	-1.700	20.00
Pyrene	0.9950	1.0546	0.0500	-6.000	25.00
Butyl benzyl phthalate	0.4570	0.4950	0.0500	-8.300	25.00
3,3'-Dichlorobenzidine	0.3590	0.3998	0.0500	-11.400	25.00
Benzo(a)anthracene	1.0400	1.0701	0.0500	-2.900	25.00
Chrysene	1.1380	1.1306	0.0500	0.700	25.00
Bis(2-ethylhexyl) phthalate	0.6620	0.6795	0.0500	-2.600	25.00
Di-n-octyl phthalate	1.0790	1.1289	0.0500	-4.600	20.00
Benzo(b)fluoranthene	1.2940	1.2475	0.0500	3.600	25.00
Benzo(k)fluoranthene	1.2030	1.3001	0.0500	-8.100	40.00
Benzo(a)pyrene	1.1580	1.2033	0.0500	-3.900	20.00
Indeno(1,2,3-cd)pyrene	1.3770	1.4153	0.0500	-2.800	25.00
Dibenzo(a,h)anthracene	1.3130	1.3113	0.0500	0.100	25.00
Benzo(ghi)perylene	1.3770	1.4153	0.0500	-2.800	25.00
Carbazole	1.0520	1.0910	0.0500	-3.700	100.00
==========					
Nitrobenzene-D5	0.3550	0.3407	0.0500	4.000	25.00
2-Fluorobiphenyl	1.2290	1.2424	0.0500	-1.100	25.00
p-Terphenyl-d14	0.7430	0.7654	0.0500	-3.000	25.00
Phenol-D5	1.6650	1.6714	0.0500	-0.400	25.00
2-Fluorophenol	1.2690	1.3200	0.0500	-4.000	25.00
2,4,6-Tribromophenol	0.0910	0.1024	0.0500	-12.500	25.00

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Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022701

	Client Sample ID	2FP %REC	#	FBP %REC	#	NBZ %REC	#	PHL %REC	#	TBP %REC	#	TPH %REC	#			TOT OUT
1	EB1-BAILER BLANK	60		125	*	107		39		153	*	152				2
2	GW03-001A-P2	55		107		95		38		121		77				0
3	GW03-003A-P1	39		87		80		26		92		68				0
4	GW03-003A-P2	38		77		70		25		88		80				0
5	GW03-004A-P1	42		90		83		30		96		72				0
6	GW03-004A-P2	43		84		78		30		93		86				0
7	GW03-004A-P2	53		76		73		48		86		97				0
8	GW03-004A-P2	52		84		77		47		94		99				0
9	GW03-007A-P1	54		109		92		35		137		119				0
10	GW03-007A-P2	46		95		87		31		103		88				0
11	GW03-007A-P3	24		110		91		7	*	89		114				1
12	GW03-007A-P3	38		65		58		46		93		91				0
13	GW03-008B-P4	37		80		71		26		81		71				0
14	GW03-010A-P2	43		96		82		28		122		90				0
15	GW03-010B-P4	37		85		74		25		94		74				0
16	GW03-010B-P5	41		82		75		29		90		70				0
17	GW03-010B-P6	43		93		86		29		96		65				0
18	GW03-010C-P7	40		87		79		27		93		63				0
19	GW03-013C-P7	49		112		99		33		121		95				0
20	GW03-014A-P1	48		95		80		33		120		74				0
21	GW03-014A-P3	56		77		75		57		93		39				0
22	GW03-014B-P4	46		89		77		29		108		92				0
23	GW03-014B-P4MS	49		98		83		34		118		95				0
24	GW03-014B-P4SD	48		106		91		32		124		85				0
25	GW03-017A-P2	38		88		80		27		94		75				0
26	Matrix Spike Blank	46		89		74		33		114		111				0
27	Matrix Spike Blank	47		90		86		34		102		109				0
28	Matrix Spike Blank	52		108		98		38		117		113				0

4/30/04

FORM II - GC/MS BNA

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S Blank

ıab Name: STL Buffalo Contract: _____

ıab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022701

ıab File ID: V02562.RR Lab Sample ID: A4B0633402

:nstrument ID: HP5973V Date Extracted: 03/03/2004

latrix: (soil/water) WATER Date Analyzed: 03/08/2004

ıevel: (low/med) LOW Time Analyzed: 17:36

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1	EB1-BAILER BLANK	A4162505	V02569.RR	03/08/2004
2	GW03-001A-P2	A4162508	V02589.RR	03/09/2004
3	GW03-007A-P1	A4162507	V02571.RR	03/08/2004
4	GW03-007A-P3	A4162506	V02570.RR	03/08/2004
5	GW03-010A-P2	A4162503	V02568.RR	03/08/2004
6	GW03-013C-P7	A4162509	V02590.RR	03/09/2004
7	GW03-014A-P1	A4162501	V02564.RR	03/08/2004
8	GW03-014B-P4	A4162502	V02565.RR	03/08/2004
9	GW03-014B-P4MS	A4162502MS	V02566.RR	03/08/2004
10	GW03-014B-P4SD	A4162502SD	V02567.RR	03/08/2004
11	Matrix Spike Blank	A4B0633401	V02561.RR	03/08/2004

:omments: _____

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ANALYSIS DATA SHEET

Client No.

S Blank

ab Name: STL Buffalo Contract: _____

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 022701

latrix: (soil/water) WATER Lab Sample ID: A4B0633402

Sample wt/vol: 1000.0 (g/mL) ML Lab File ID: V02562.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: _____ decanted: (Y/N) N Date Extracted: 03/03/2004

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 03/08/2004

Injection Volume: 1.00 (uL) Dilution Factor: 1.00

GPC Cleanup: (Y/N) N pH: 5.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
83-32-9	Acenaphthene	10	U
208-96-8	Acenaphthylene	10	U
98-86-2	Acetophenone	10	U
120-12-7	Anthracene	10	U
1912-24-9	Atrazine	10	U
100-52-7	Benzaldehyde	50	U
56-55-3	Benzo(a)anthracene	10	U
205-99-2	Benzo(b)fluoranthene	10	U
207-08-9	Benzo(k)fluoranthene	10	U
191-24-2	Benzo(ghi)perylene	10	U
50-32-8	Benzo(a)pyrene	10	U
92-52-4	Biphenyl	10	U
111-91-1	Bis(2-chloroethoxy) methane	10	U
111-44-4	Bis(2-chloroethyl) ether	10	U
108-60-1	2,2'-Oxybis(1-Chloropropane)	10	U
117-81-7	Bis(2-ethylhexyl) phthalate	8	J
101-55-3	4-Bromophenyl phenyl ether	10	U
85-68-7	Butyl benzyl phthalate	10	U
106-47-8	4-Chloroaniline	10	U
59-50-7	4-Chloro-3-methylphenol	10	U
91-58-7	2-Chloronaphthalene	10	U
95-57-8	2-Chlorophenol	10	U
7005-72-3	4-Chlorophenyl phenyl ether	10	U
105-60-2	Caprolactam	10	U
218-01-9	Chrysene	10	U
53-70-3	Dibenzo(a,h)anthracene	10	U
132-64-9	Dibenzofuran	10	U
84-74-2	Di-n-butyl phthalate	10	U
91-94-1	3,3'-Dichlorobenzidine	20	U
120-83-2	2,4-Dichlorophenol	10	U
84-66-2	Diethyl phthalate	10	U
105-67-9	2,4-Dimethylphenol	10	U

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U R S Corporation

ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022701

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 3/4/2004 End Date: 3/4/2004

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	14:55																X									
ICB	1.00	14:57																X									
CRA	1.00	14:58																X									
ZZZZZZ	1.00	14:59																									
ZZZZZZ	1.00	15:00																									
ZZZZZZ	1.00	15:02																									
ZZZZZZ	1.00	15:03																									
ZZZZZZ	1.00	15:04																									
ZZZZZZ	1.00	15:05																									
ZZZZZZ	1.00	15:07																									
ZZZZZZ	1.00	15:08																									
ZZZZZZ	1.00	15:10																									
ZZZZZZ	1.00	15:11																									
CCV	1.00	15:12																X									
CCB	1.00	15:13																X									
ZZZZZZ	1.00	15:15																									
ZZZZZZ	1.00	15:16																									
ZZZZZZ	1.00	15:18																									
ZZZZZZ	1.00	15:19																									
ZZZZZZ	1.00	15:20																									
ZZZZZZ	1.00	15:22																									
ZZZZZZ	1.00	15:23																									
ZZZZZZ	1.00	15:25																									
ZZZZZZ	1.00	15:27																									
ZZZZZZ	1.00	15:28																									
CCV	1.00	15:29																X									
CCB	1.00	15:30																X									
ZZZZZZ	1.00	15:32																									
ZZZZZZ	1.00	15:33																									
GW03-003A-P1	1.00	15:34																X									
GW03-008B-P4	1.00	15:35																X									
GW03-010C-P7	1.00	15:36																X									
GW03-014A-P3	1.00	15:38																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022701

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 3/4/2004 End Date: 3/4/2004

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	15:40																									
ZZZZZZ	1.00	15:41																									
ZZZZZZ	1.00	15:42																									
ZZZZZZ	1.00	15:43																									
CCV	1.00	15:44																X									
CCB	1.00	15:45																X									
ZZZZZZ	1.00	15:47																									
ZZZZZZ	1.00	15:48																									
ZZZZZZ	1.00	15:49																									
ZZZZZZ	1.00	15:50																									
ZZZZZZ	1.00	15:52																									
ZZZZZZ	1.00	15:54																									
ZZZZZZ	1.00	15:55																									
ZZZZZZ	1.00	15:56																									
ZZZZZZ	1.00	15:57																									
LCS	1.00	15:58																X									
CCV	1.00	15:59																X									
CCB	1.00	16:01																X									
ZZZZZZ	1.00	16:02																									
ZZZZZZ	1.00	16:04																									
ZZZZZZ	1.00	16:06																									
ZZZZZZ	1.00	16:07																									
ZZZZZZ	1.00	16:08																									
ZZZZZZ	1.00	16:09																									
ZZZZZZ	1.00	16:11																									
ZZZZZZ	1.00	16:12																									
ZZZZZZ	1.00	16:13																									
GW03-003A-P2	1.00	16:14																X									
CCV	1.00	16:16																X									
CCB	1.00	16:18																X									
ZZZZZZ	1.00	16:20																									
ZZZZZZ	1.00	16:34																									
ZZZZZZ	1.00	16:35																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022701

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 3/4/2004 End Date: 3/4/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	16:36																									
ZZZZZZ	1.00	16:38																									
ZZZZZZ	1.00	16:53																									
ZZZZZZ	1.00	16:55																									
ZZZZZZ	1.00	16:57																									
ZZZZZZ	1.00	16:58																									
LCS	1.00	17:01																X									
CCV	1.00	17:07																X									
CCB	1.00	17:10																X									
ZZZZZZ	1.00	17:11																									
ZZZZZZ	1.00	17:13																									
ZZZZZZ	1.00	17:14																									
ZZZZZZ	1.00	17:15																									
ZZZZZZ	1.00	17:17																									
ZZZZZZ	1.00	17:19																									
ZZZZZZ	1.00	17:20																									
ZZZZZZ	1.00	17:22																									
ZZZZZZ	1.00	17:23																									
ZZZZZZ	1.00	17:25																									
CCV	1.00	17:26																X									
CCB	1.00	17:27																X									
ZZZZZZ	1.00	17:28																									
ZZZZZZ	1.00	17:30																									
ZZZZZZ	1.00	17:31																									
ZZZZZZ	1.00	17:32																									
ZZZZZZ	1.00	17:34																									
ZZZZZZ	1.00	17:35																									
ZZZZZZ	1.00	17:37																									
ZZZZZZ	1.00	17:38																									
ZZZZZZ	1.00	17:39																									
ZZZZZZ	1.00	17:41																									
CCV	1.00	17:42																X									
CCB	1.00	17:43																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 022701

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 3/4/2004 End Date: 3/4/2004

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	17:44																									
ZZZZZZ	1.00	17:45																									
ZZZZZZ	1.00	17:47																									
ZZZZZZ	1.00	17:48																									
ZZZZZZ	1.00	17:49																									
ZZZZZZ	1.00	17:50																									
ZZZZZZ	1.00	17:51																									
ZZZZZZ	1.00	17:52																									
ZZZZZZ	1.00	17:54																									
ZZZZZZ	1.00	17:55																									
CCV	1.00	17:56																X									
CCB	1.00	17:57																X									
ZZZZZZ	1.00	17:58																									
ZZZZZZ	1.00	17:59																									
ZZZZZZ	1.00	18:01																									
ZZZZZZ	1.00	18:03																									
ZZZZZZ	1.00	18:05																									
ZZZZZZ	1.00	18:06																									
ZZZZZZ	1.00	18:07																									
ZZZZZZ	1.00	18:08																									
ZZZZZZ	1.00	18:10																									
Method Blank	1.00	18:11																X									
CCV	1.00	18:12																X									
CCB	1.00	18:14																X									
Method Blank	1.00	18:15																X									
ZZZZZZ	1.00	18:16																									
ZZZZZZ	1.00	18:17																									
CCV	1.00	18:19																X									
CCB	1.00	18:20																X									

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A4B06455 - 03/04/2004 NON-CLP WATER Hg W1 (Open)
AQUEOUS

Date	Time	Dig Emp	Jobno	Sample ID	Bot ID	Sample Type	Digest ID	Vl	Analysis Type	Initial Vl (ml)	Final (ml)	Color Before/After		Clarity Before/After		Textur
03/04/04	10:00	AJY	A04-1730	A4173003	A	FS	AD408616	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1730	A4173004	A	FS	AD408617	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1730	A4173005	A	FS	AD408618	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1730	A4173006	A	FS	AD408619	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1730	A4173007	A	FB	AD408620	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1732	A4173201	A	FS	AD408621	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1732	A4173201MS	A	MS	AD408622	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1732	A4173201SD	A	SD	AD408623	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1732	A4173202	A	FS	AD408624	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1735	A4173501	A	FS	AD408625	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1723	A4172301	A	FS	AD408626	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1723	A4172301MS	A	MS	AD408627	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1723	A4172301SD	A	SD	AD408628	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175701	A	FS	AD408629	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175702	A	FS	AD408630	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175703	A	FS	AD408631	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175704	A	FS	AD408632	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175705	A	FS	AD408633	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY		A4B0645507	A	LCS	AD408635	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175706	A	FS	AD408634	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175707	A	FS	AD408636	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175707FD	A	FD	AD408637	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1757	A4175708	A	FS	AD408638	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1692	A4169201 *	A	FS	AD408639	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY	A04-1692	A4169205 *	A	FS	AD408640	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY		A4B0645509	A	LCS	AD408641	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY		A4B0645502	A	MBLK	AD408642	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY		A4B0645504	A	MBLK	AD408643	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY		A4B0645506	A	MBLK	AD408644	A	MERCURY	30.00	50.00					
03/04/04	10:00	AJY		A4B0645508	A	MBLK	AD408645	A	MERCURY	30.00	50.00					

Color: Black Gray Red Yellow
Blue Green Violet Colorless
Brown Orange White

Clarity: Clear
Cloudy
Opaque

Texture: Fine (powdery)
Medium (sand)
Coarse (large crystals or rocks)

* Redigestion

4062/6318

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BLANKS

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 022701

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.1	U	-0.2		0.1	U	0.1	U	-0.292		CV

Comments:

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METHODS SUMMARY

Job#: A04-1696,A04-1699,A04-1711,A04-1718,A04-1719,A04-1720, A04-1759,A04-1762,A04-1774,A04-1788,A04-1789,A04-1790

STL Project#: NY3A9122
SDG#: 030201
Site Name: NEW YORK POWER AUTHORITY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8290 - TCL DIOXINS & FURANS	SW8463 8290
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Mercury - Total	SW8463 7470
Potassium - Total	SW8463 6010
Sodium - Total	SW8463 6010
Bicarbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0
E Coli	SM18 9221
Sulfate	MCAWW 300.0
Total Alkalinity	MCAWW 310.1
Total Bacteria Coliform	SM18 9222B
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2
Total Organic Carbon	MCAWW 415.1
Total Suspended Solids	MCAWW 160.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

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NON-CONFORMANCE SUMMARY

Job#: A04-1696,A04-1699,A04-1711,A04-1718,A04-1719,A04-1720,
A04-1759,A04-1762,A04-1774,A04-1788,A04-1789,A04-1790

STL Project#: NY3A9122
SDG#: 030201
Site Name: NEW YORK POWER AUTHORITY

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-1696
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.
A04-1699
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.
A04-1711
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.
A04-1718
Sample Cooler(s) were received at the following temperature(s); 3,4,4 °C
The Trip Blanks received today had the same ID's on the COC. The only difference between the points is that one trip blank had a time and the other one did not. The Trip Blanks were logged in as 1 sample.
A04-1719
Sample Cooler(s) were received at the following temperature(s); 3,4,4 °C
All samples were received in good condition.
A04-1720
Sample Cooler(s) were received at the following temperature(s); 3,4,4 °C
All samples were received in good condition.
A04-1759
Sample Cooler(s) were received at the following temperature(s); 10@2.0 °C
All samples were received in good condition.
A04-1762
Sample Cooler(s) were received at the following temperature(s); 10@2.0 °C
All samples were received in good condition.

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A04-1774

Sample Cooler(s) were received at the following temperature(s); 10 @ 2.0 °C
Samples GW03-11B-P4MS and GW03-11B-P4SD were each received with only two nonpreserved 40mlvs.

A04-1788

Sample Cooler(s) were received at the following temperature(s); 5@3.0 °C
One sample vial was received broken for sample GW03-012C-P7 for VOA analysis. Sufficient volume remained to complete the analysis.

One sample bottle from sample GW03-012C-P7 was broken in SC for SVOA analysis by Method 8270. Sufficient volume remained to complete the analysis.

A04-1789

Sample Cooler(s) were received at the following temperature(s); 5@3.0 °C
All samples were received in good condition.

A04-1790

Sample Cooler(s) were received at the following temperature(s); 5@3.0 °C
All samples were received in good condition.

GC/MS Volatile Data

All volatile samples exhibited a pH of 7 at the time of analysis. The analysis was performed within 7 days of sampling, therefore there is no impact on data usability.

Initial calibration standard curve A4I0000143-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 9.98%.

Initial calibration standard curve A4I0000153-1 exhibited the %RSD of the compounds Acetone, Chloroethane and Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 6.32%.

GC/MS Semivolatile Data

Dioxins and Furans were subcontracted to STL Knoxville. All data is included in this report as Appendix A.

Linear regression was used to calibrate analytes that were greater than 15% RSD in the initial calibration A4I0000139.

GC Extractable Data

For method 8081 and 8082, the extracts for several samples required treatment with Copper prior to analysis due to the presence of elemental Sulfur. This is indicated for field samples and the associated batch quality control extracts in the injection logbook and on the individual report Form-1. The raw run data for any untreated extracts has been included in the raw quality control section of the data package.

For method 8081, the laboratory quality control sample extracts for batch A4B06373 were not analyzed prior to copper cleanup. The associated recoveries for all spikes and surrogates are within control limits, no further action necessary.

For method 8081, several compounds exhibited a percent difference greater than 15% from the expected amount in the associated continuing calibrations. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant. No corrective action was required.

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For method 8082, the recovery of surrogate Decachlorobiphenyl in sample GW03-010A-P3 is outside of established quality control limits. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

For method 8082, some calibration verifications demonstrated an decreased instrument response, >15% difference, for the surrogate Decachlorobiphenyl. The theoretical consequence of this would be a low bias in the calculated surrogate recoveries. The associated sample surrogate recoveries are within the quality control limits. In the technical judgement of the laboratory, the sample data has not been impacted and no corrective action is required.

For method 8081, the recovery of surrogate Tetrachloro-m-xylene in sample GW03-014A-P2 is outside of established quality control limits due to the sample matrix. The recovery of surrogate Decachlorobiphenyl is within quality control criteria; no corrective action is required.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

Sample GW03-006A-P1 was originally analyzed for Sulfate within the required holding time, however, the result was not consistent with historical trends. Re-analysis was performed outside holding time and the value obtained was more representative of past data. Both sets of data are provided in this data package. The ending lower QC standard was biased high due to sample carryover, however the ending upper QC standard was compliant.

The values obtained for TDS on samples GW03-012A-P2, GW03-012B-P6, GW03-009B-P4, and GW03-009B-P6 are inconsistent with historical trends. The value was confirmed by the conductivity ratio.

The values obtained for TDS on samples GW03-014A-P2 and GW03-009B-P5 are inconsistent with historical trends. The values were confirmed by the conductivity ratio.

The values obtained for Total hardness on samples GW03-014A-P2, GW03-012B-P5, and GW03-011C-P8 are inconsistent with historical trends. Reanalysis was performed and the values were confirmed. Only the result from the original analysis is provided in this data package.

Total Plate Count, E. Coli and Total Coliform were subcontracted to ACTS Testing Laboratory. All data is included in this report as Appendix A.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
GW03-008A-P1	A4171101	Sulfate	5.00	008
GW03-008A-P2	A4171102	Calcium - Total	10.00	008
GW03-008A-P2	A4171102	Chloride	20.00	008
GW03-008A-P2	A4171102	Potassium - Total	10.00	002
GW03-008A-P2	A4171102	Sodium - Total	10.00	008
GW03-008A-P2	A4171102	Sulfate	20.00	008
GW03-008B-P5	A4171103	Sulfate	5.00	008
GW03-008A-P3	A4171801	Calcium - Total	250.00	008
GW03-008A-P3	A4171801	Chloride	1000.00	008
GW03-008A-P3	A4171801	Magnesium - Total	250.00	008
GW03-008A-P3	A4171801	Potassium - Total	250.00	008
GW03-008A-P3	A4171801	Sodium - Total	250.00	008
GW03-008A-P3	A4171801	Sulfate	20.00	008
GW03-006A-P1	A4171802	Chloride	100.00	008
GW03-006A-P1	A4171802	Sulfate	2.00	002
GW03-010A-P3	A4171803	Calcium - Total	250.00	008
GW03-010A-P3	A4171803	Chloride	200.00	008
GW03-010A-P3	A4171803	Magnesium - Total	250.00	008
GW03-010A-P3	A4171803	Potassium - Total	250.00	008
GW03-010A-P3	A4171803	Sodium - Total	250.00	008
GW03-010A-P3	A4171803	Sulfate	1000.00	008
GW03-012A-P2	A4177401	Chloride	20.00	008
GW03-012A-P2	A4177401	Sodium - Total	20.00	008
GW03-012A-P2	A4177401	Sulfate	5.00	008
GW03-012B-P6	A4177402	Calcium - Total	20.00	008
GW03-012B-P6	A4177402	Chloride	20.00	008
GW03-012B-P6	A4177402	Potassium - Total	20.00	002
GW03-012B-P6	A4177402	Sodium - Total	20.00	008
GW03-012B-P6	A4177402	Sulfate	10.00	008
GW03-011B-P4	A4177403	Sulfate	5.00	008
GW03-011B-P4MD	A4177403MD	Sulfate	5.00	008
GW03-011B-P4MS	A4177403MS	Sulfate	5.00	008
GW03-006A-P5	A4177404	Calcium - Total	10.00	008
GW03-006A-P5	A4177404	Chloride	20.00	008
GW03-006A-P5	A4177404	Potassium - Total	10.00	002
GW03-006A-P5	A4177404	Sodium - Total	10.00	008
GW03-006A-P5	A4177404	Sulfate	20.00	008
GW03-009B-P4	A4177406	8260	2.00	008
GW03-009B-P4	A4177406	Chloride	10.00	008
GW03-009B-P4	A4177406	Potassium - Total	5.00	002

ilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

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Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
GW03-009B-P4	A4177406	Sodium - Total	5.00	008
GW03-009B-P4	A4177406	Sulfate	2.00	008
GW03-009B-P6	A4177407	Chloride	10.00	008
GW03-009B-P6	A4177407	Potassium - Total	5.00	002
GW03-009B-P6	A4177407	Sodium - Total	5.00	008
GW03-009B-P6	A4177407	Sulfate	2.00	008
GW03-006B-P2	A4177408	Calcium - Total	10.00	008
GW03-006B-P2	A4177408	Chloride	20.00	008
GW03-006B-P2	A4177408	Potassium - Total	10.00	002
GW03-006B-P2	A4177408	Sodium - Total	10.00	008
GW03-006B-P2	A4177408	Sulfate	20.00	008
GW03-014A-P2	A4178801	Calcium - Total	200.00	008
GW03-014A-P2	A4178801	Chloride	1000.00	008
GW03-014A-P2	A4178801	Magnesium - Total	200.00	008
GW03-014A-P2	A4178801	Potassium - Total	5.00	008
GW03-014A-P2	A4178801	Sodium - Total	200.00	008
GW03-014A-P2	A4178801	Sulfate	1000.00	008
GW03-012B-P5	A4178802	Calcium - Total	20.00	008
GW03-012B-P5	A4178802	Chloride	20.00	008
GW03-012B-P5	A4178802	Sodium - Total	20.00	008
GW03-012B-P5	A4178802	Sulfate	20.00	008
GW03-012C-P7	A4178803	Chloride	20.00	008
GW03-012C-P7	A4178803	Sodium - Total	10.00	008
GW03-012C-P7	A4178803	Sulfate	5.00	008
GW03-009B-P5	A4178804	Chloride	10.00	008
GW03-009B-P5	A4178804	Sodium - Total	10.00	008
GW03-009B-P5	A4178804	Sulfate	5.00	008
GW03-011C-P8	A4178805	Sulfate	5.00	008

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

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ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000400

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030201

Lab File ID: L4403 BFB Injection Date: 03/01/2004

Instrument ID: I50L BFB Injection Time: 08:41

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.0		
75	30.0 - 60.0% of mass 95	50.8		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.1		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	83.3		
175	5.0 - 9.0% of mass 174	5.3	(6.4)	1
176	95.0 - 101.0% of mass 174	82.2	(98.7)	1
177	5.0 - 9.0% of mass 176	4.5	(5.5)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD020	A4I0000143-1	L4405.RR	03/01/2004	10:07
2	VSTD010	A4I0000143-1	L4406.RR	03/01/2004	10:39
3	VSTD040	A4I0000143-1	L4409.RR	03/01/2004	13:13
4	VSTD004	A4I0000143-1	L4410.RR	03/01/2004	14:14
5	VSTD001	A4I0000143-1	L4411.RR	03/01/2004	14:46

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INITIAL CALIBRATION DATA

ab Name: STL Buffalo Contract: _____ Lab Sample ID: A4I0000143-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030201

ntrument ID: I50L _____ Calibration Dates(s): 03/01/2004 03/01/2004

eated Purge (Y/N): N Calibration Times: 10:07 14:46

C Column: DB-624 ID: 0.53(mm)

Lab File ID: RRF1 = L4411.RR RRF4 = L4410.RR
RRF10 = L4406.RR RRF20 = L4405.RR RRF40 = L4409.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Acetone	0.079	0.064	0.062	0.073	0.062	0.0680	10.800
Benzene	0.867	0.740	0.816	0.845	0.972	0.8480	9.900
Bromodichloromethane	0.664	0.629	0.677	0.716	0.819	0.7010	10.400
Bromoform	0.452	0.449	0.481	0.487	0.518	0.4780	5.900
Bromomethane	0.386	0.456	0.489	0.662	0.679	0.5340	24.300
2-Butanone	0.101	0.050	0.051	0.059	0.056	0.0630	33.800
Methyl acetate	0.308	0.253	0.255	0.278	0.251	0.2690	9.100
Cyclohexane	0.312	0.350	0.373	0.414	0.478	0.3860	16.600
Methylcyclohexane	0.365	0.395	0.416	0.446	0.494	0.4230	11.700
Carbon Disulfide	1.152	1.099	1.144	1.323	1.280	1.2000	8.000
Carbon Tetrachloride	0.748	0.668	0.759	0.793	0.892	0.7720	10.500
Chlorobenzene	1.144	0.995	0.987	1.019	1.115	1.0520	6.900
Chloroethane	0.355	0.396	0.367	0.478	0.456	0.4100	13.300
Chloroform	0.708	0.629	0.666	0.663	0.695	0.6720	4.600
Chloromethane	0.297	0.272	0.268	0.284	0.264	0.2770	4.800
Dibromochloromethane	0.646	0.641	0.672	0.685	0.725	0.6740	5.100
1,2-Dibromo-3-chloropropane	0.105	0.119	0.135	0.139	0.123	0.1240	10.900
1,2-Dibromoethane	0.450	0.412	0.427	0.428	0.436	0.4310	3.300
1,2-Dichlorobenzene	1.658	1.440	1.431	1.492	1.554	1.5150	6.200
1,3-Dichlorobenzene	1.760	1.579	1.653	1.861	1.999	1.7700	9.400
1,4-Dichlorobenzene	1.964	1.658	1.645	1.708	1.740	1.7430	7.400
Dichlorodifluoromethane	0.459	0.432	0.423	0.458	0.422	0.4390	4.200
1,1-Dichloroethane	1.056	0.932	0.960	0.965	0.978	0.9780	4.800
1,2-Dichloroethane	0.403	0.364	0.397	0.401	0.416	0.3960	4.900
1,1-Dichloroethene	0.502	0.453	0.501	0.565	0.582	0.5210	10.100
cis-1,2-Dichloroethene	0.572	0.470	0.506	0.491	0.373	0.4820	15.000
trans-1,2-Dichloroethene	0.564	0.517	0.550	0.578	0.611	0.5640	6.200
1,2-Dichloropropane	0.322	0.306	0.324	0.339	0.376	0.3330	8.000
cis-1,3-Dichloropropene	0.499	0.489	0.515	0.556	0.650	0.5420	12.100
trans-1,3-Dichloropropene	0.413	0.416	0.446	0.458	0.464	0.4390	5.400
Ethylbenzene	1.551	1.401	1.565	1.800	2.319	1.7270	20.900
2-Hexanone	0.175	0.141	0.147	0.160	0.152	0.1550	8.400
Isopropylbenzene	2.372	2.121	2.165	2.208	2.334	2.2400	4.800
Methylene chloride	0.684	0.516	0.467	0.490	0.479	0.5270	16.900
4-Methyl-2-pentanone	0.270	0.209	0.215	0.237	0.247	0.2360	10.600
Styrene	0.905	0.924	0.994	1.131	1.384	1.0670	18.500
1,1,2,2-Tetrachloroethane	0.631	0.566	0.608	0.650	0.715	0.6340	8.600

4/29/04 VM

FORM VI VOA

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ab Name: STL Buffalo Contract: _____ Lab Sample ID: A4I0000143-1

ab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030201

ntrument ID: I50L _____ Calibration Dates(s): 03/01/2004 03/01/2004

eated Purge (Y/N): N Calibration Times: 10:07 14:46

C Column: DB-624 ID: 0.53 (mm)

Lab File ID: RRF1 = L4411.RR RRF4 = L4410.RR
RRF10 = L4406.RR RRF20 = L4405.RR RRF40 = L4409.RR

COMPOUND	RRF1	RRF4	RRF10	RRF20	RRF40	AVG RRF	% RSD
Tetrachloroethene	0.760	0.637	0.648	0.664	0.737	0.6890	8.100
Toluene	0.715	0.638	0.637	0.655	0.714	0.6720	5.900
1,2,4-Trichlorobenzene	1.398	1.335	1.210	1.254	1.260	1.2910	5.800
1,1,1-Trichloroethane	0.694	0.650	0.739	0.759	0.864	0.7410	10.900
1,1,2-Trichloroethane	0.276	0.250	0.263	0.264	0.272	0.2650	3.800
Trichloroethene	0.439	0.393	0.422	0.436	0.514	0.4410	10.200
Trichlorofluoromethane	1.459	1.351	1.299	1.499	1.451	1.4120	5.900
Vinyl chloride	0.411	0.382	0.375	0.402	0.375	0.3890	4.200
Total Xylenes	0.590	0.572	0.619	0.683	0.833	0.6600	16.000
Methyl tert butyl ether	1.359	1.082	1.096	1.219	1.211	1.1930	9.400
1,1,2-Trichloro-1,2,2-trifl	0.926	0.934	0.956	1.095	1.105	1.0030	8.900
1,2-Dichloroethane-D4	0.356	0.354	0.345	0.374	0.393	0.3640	5.300
Toluene-D8	1.088	1.036	0.978	1.013	1.057	1.0340	4.000
p-Bromofluorobenzene	0.761	0.688	0.615	0.643	0.678	0.6770	8.100

Comments:

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000424

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030201

Lab File ID: L4446 BFB Injection Date: 03/03/2004

Instrument ID: I50L BFB Injection Time: 19:11

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.2		
75	30.0 - 60.0% of mass 95	50.6		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.2		
173	Less than 2.0% of mass 174	0.1	(0.1)	1
174	50 - 120 % of mass 95	84.4		
175	5.0 - 9.0% of mass 174	5.0	(5.9)	1
176	95.0 - 101.0% of mass 174	83.7	(99.2)	1
177	5.0 - 9.0% of mass 176	5.1	(6.1)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000555-1	L4447.RR	03/03/2004	20:00
2	MSB96	A4171106	L4448.RR	03/03/2004	20:46
3	VBLK96	A4171105	L4449.RR	03/03/2004	21:18
4	TBA1-030204	A4171104	L4450.RR	03/03/2004	21:50
5	TBA2-030204	A4171804	L4451.RR	03/03/2004	22:23
6	GW03-008A-P1	A4171101	L4460.RR	03/04/2004	03:13
7	GW03-008A-P2	A4171102	L4461.RR	03/04/2004	03:46
8	GW03-008B-P5	A4171103	L4462.RR	03/04/2004	04:19
9	GW03-008A-P3	A4171801	L4463.RR	03/04/2004	04:52
10	GW03-006A-P1	A4171802	L4464.RR	03/04/2004	05:24
11	GW03-010A-P3	A4171803	L4465.RR	03/04/2004	05:57

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000555-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030201

Lab File Id: L4447.RR Calibration Date: 03/03/2004 Time: 20:00

Intrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0680	0.0659	0.0100	3.100	100.00
Benzene	0.8480	0.7798	0.0100	8.000	100.00
Bromodichloromethane	0.7010	0.6854	0.0100	2.200	100.00
Bromoform	0.4780	0.5279	0.1000	-10.400	100.00
Bromomethane	0.5340	0.1294	0.0100	75.800	100.00
2-Butanone	0.0630	0.0507	0.0100	19.500	100.00
Methyl acetate	0.2690	0.2611	0.0100	2.900	100.00
Cyclohexane	0.3860	0.3202	0.0100	17.000	100.00
Methylcyclohexane	0.4230	0.3920	0.0100	7.300	100.00
Carbon Disulfide	1.2000	1.0036	0.0100	16.400	100.00
Carbon Tetrachloride	0.7720	0.7743	0.0100	-0.300	100.00
Chlorobenzene	1.0520	0.9972	0.3000	5.200	100.00
Chloroethane	0.4100	0.3339	0.0100	18.600	100.00
Chloroform	0.6720	0.6486	0.0100	3.500	20.00
Chloromethane	0.2770	0.2204	0.1000	20.400	100.00
Dibromochloromethane	0.6740	0.7054	0.0100	-4.600	100.00
1,2-Dibromo-3-chloropropane	0.1240	0.1398	0.0100	-12.700	100.00
1,2-Dibromoethane	0.4310	0.4435	0.0100	-2.900	100.00
1,2-Dichlorobenzene	1.5150	1.4320	0.0100	5.500	100.00
1,3-Dichlorobenzene	1.7700	1.6278	0.0100	8.000	100.00
1,4-Dichlorobenzene	1.7430	1.6456	0.0100	5.600	100.00
Dichlorodifluoromethane	0.4390	0.3405	0.0100	22.400	100.00
1,1-Dichloroethane	0.9780	0.9249	0.1000	5.400	100.00
1,2-Dichloroethane	0.3960	0.3950	0.0100	0.300	100.00
1,1-Dichloroethene	0.5210	0.4908	0.0100	5.800	100.00
cis-1,2-Dichloroethene	0.4820	0.3618	0.0100	24.900	100.00
trans-1,2-Dichloroethene	0.5640	0.5270	0.0100	6.600	100.00
1,2-Dichloropropane	0.3330	0.3120	0.0100	6.300	20.00
cis-1,3-Dichloropropene	0.5420	0.5206	0.0100	3.900	100.00
trans-1,3-Dichloropropene	0.4390	0.4266	0.0100	2.800	100.00
Ethylbenzene	1.7270	1.5472	0.0100	10.400	20.00
2-Hexanone	0.1550	0.1479	0.0100	4.600	100.00
Isopropylbenzene	2.2400	2.0275	0.0100	9.500	100.00
Methylene chloride	0.5270	0.4589	0.0100	12.900	100.00
4-Methyl-2-pentanone	0.2360	0.2157	0.0100	8.600	100.00
Styrene	1.0670	1.0349	0.0100	3.000	100.00
1,1,2,2-Tetrachloroethane	0.6340	0.6046	0.3000	4.600	100.00
Tetrachloroethene	0.6890	0.6803	0.0100	1.300	100.00
Toluene	0.6720	0.6465	0.0100	3.800	20.00

4/27/04

FORM VII VOA

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000447

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030201

Lab File ID: L4486 BFB Injection Date: 03/04/2004

Instrument ID: I50L BFB Injection Time: 21:08

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.9		
75	30.0 - 60.0% of mass 95	49.4		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.4		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	90.7		
175	5.0 - 9.0% of mass 174	5.5	(6.1)	1
176	95.0 - 101.0% of mass 174	87.5	(96.5)	1
177	5.0 - 9.0% of mass 176	4.9	(5.6)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000577-1	L4487.RR	03/04/2004	21:53
2	MSB98	A4177414	L4488.RR	03/04/2004	22:38
3	VBLK98	A4177413	L4489.RR	03/04/2004	23:10
4	TBD-1-030304	A4177412	L4490.RR	03/04/2004	23:43
5	TBB-1-030304	A4177411	L4491.RR	03/05/2004	00:15
6	TBC1-030304	A4177410	L4492.RR	03/05/2004	00:47
7	TBA1-030304	A4177409	L4493.RR	03/05/2004	01:20
8	GW03-012A-P2	A4177401	L4498.RR	03/05/2004	04:02
9	GW03-012B-P6	A4177402	L4499.RR	03/05/2004	04:35
10	GW03-011B-P4	A4177403	L4500.RR	03/05/2004	05:07
11	GW03-011B-P4MS	A4177403MS	L4501.RR	03/05/2004	05:39
12	GW03-011B-P4SD	A4177403SD	L4502.RR	03/05/2004	06:12
13	GW03-006A-P5	A4177404	L4503.RR	03/05/2004	06:44
14	GW03-006B-P4	A4177405	L4504.RR	03/05/2004	07:16
15	GW03-009B-P6	A4177407	L4506.RR	03/05/2004	08:20
16	GW03-006B-P2	A4177408	L4507.RR	03/05/2004	08:51

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000577-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030201

Lab File Id: L4487.RR Calibration Date: 03/04/2004 Time: 21:53

Instrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0680	0.0694	0.0100	-2.000	100.00
Benzene	0.8480	0.7910	0.0100	6.700	100.00
Bromodichloromethane	0.7010	0.6813	0.0100	2.800	100.00
Bromoform	0.4780	0.5155	0.1000	-7.800	100.00
Bromomethane	0.5340	0.1194	0.0100	77.600	100.00
2-Butanone	0.0630	0.0538	0.0100	14.600	100.00
Methyl acetate	0.2690	0.2610	0.0100	3.000	100.00
Cyclohexane	0.3860	0.2975	0.0100	22.900	100.00
Methylcyclohexane	0.4230	0.3742	0.0100	11.500	100.00
Carbon Disulfide	1.2000	0.9639	0.0100	19.700	100.00
Carbon Tetrachloride	0.7720	0.7798	0.0100	-1.000	100.00
Chlorobenzene	1.0520	1.0201	0.3000	3.000	100.00
Chloroethane	0.4100	0.3682	0.0100	10.200	100.00
Chloroform	0.6720	0.6543	0.0100	2.600	20.00
Chloromethane	0.2770	0.2446	0.1000	11.700	100.00
Dibromochloromethane	0.6740	0.7107	0.0100	-5.400	100.00
1,2-Dibromo-3-chloropropane	0.1240	0.1329	0.0100	-7.200	100.00
1,2-Dibromoethane	0.4310	0.4447	0.0100	-3.200	100.00
1,2-Dichlorobenzene	1.5150	1.4649	0.0100	3.300	100.00
1,3-Dichlorobenzene	1.7700	1.6991	0.0100	4.000	100.00
1,4-Dichlorobenzene	1.7430	1.6954	0.0100	2.700	100.00
Dichlorodifluoromethane	0.4390	0.4005	0.0100	8.800	100.00
1,1-Dichloroethane	0.9780	0.9357	0.1000	4.300	100.00
1,2-Dichloroethane	0.3960	0.4146	0.0100	-4.700	100.00
1,1-Dichloroethene	0.5210	0.4961	0.0100	4.800	100.00
cis-1,2-Dichloroethene	0.4820	0.4371	0.0100	9.300	100.00
trans-1,2-Dichloroethene	0.5640	0.5348	0.0100	5.200	100.00
1,2-Dichloropropane	0.3330	0.3180	0.0100	4.500	20.00
cis-1,3-Dichloropropene	0.5420	0.5346	0.0100	1.400	100.00
trans-1,3-Dichloropropene	0.4390	0.4110	0.0100	6.400	100.00
Ethylbenzene	1.7270	1.5636	0.0100	9.500	20.00
2-Hexanone	0.1550	0.1542	0.0100	0.500	100.00
Isopropylbenzene	2.2400	2.0779	0.0100	7.200	100.00
Methylene chloride	0.5270	0.4813	0.0100	8.700	100.00
4-Methyl-2-pentanone	0.2360	0.2196	0.0100	6.900	100.00
Styrene	1.0670	1.0647	0.0100	0.200	100.00
1,1,2,2-Tetrachloroethane	0.6340	0.6286	0.3000	0.900	100.00
Tetrachloroethene	0.6890	0.7035	0.0100	-2.100	100.00
Toluene	0.6720	0.6621	0.0100	1.500	20.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000453

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030201

Lab File ID: L4508 BFB Injection Date: 03/05/2004

Instrument ID: I50L BFB Injection Time: 09:24

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	20.8
75	30.0 - 60.0% of mass 95	47.0
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.9
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50 - 120 % of mass 95	95.1
175	5.0 - 9.0% of mass 174	5.0 (5.3) 1
176	95.0 - 101.0% of mass 174	94.6 (99.5) 1
177	5.0 - 9.0% of mass 176	5.0 (5.3) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000584-1	L4509.RR	03/05/2004	09:56
2	MSB99	A4177416	L4510.RR	03/05/2004	10:44
3	VBLK99	A4177415	L4511.RR	03/05/2004	11:19
4	GW03-009B-P4	A4177406	L4514.RR	03/05/2004	12:55

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000584-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030201

Lab File Id: L4509.RR Calibration Date: 03/05/2004 Time: 09:56

Intrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0680	0.0590	0.0100	13.200	100.00
Benzene	0.8480	0.7409	0.0100	12.600	100.00
Bromodichloromethane	0.7010	0.6190	0.0100	11.700	100.00
Bromoform	0.4780	0.4511	0.1000	5.600	100.00
Bromomethane	0.5340	0.1164	0.0100	78.200	100.00
2-Butanone	0.0630	0.0457	0.0100	27.500	100.00
Methyl acetate	0.2690	0.2310	0.0100	14.100	100.00
Cyclohexane	0.3860	0.3106	0.0100	19.500	100.00
Methylcyclohexane	0.4230	0.3840	0.0100	9.200	100.00
Carbon Disulfide	1.2000	0.9705	0.0100	19.100	100.00
Carbon Tetrachloride	0.7720	0.7255	0.0100	6.000	100.00
Chlorobenzene	1.0520	0.9319	0.3000	11.400	100.00
Chloroethane	0.4100	0.3641	0.0100	11.200	100.00
Chloroform	0.6720	0.6143	0.0100	8.600	20.00
Chloromethane	0.2770	0.2308	0.1000	16.700	100.00
Dibromochloromethane	0.6740	0.6280	0.0100	6.800	100.00
1,2-Dibromo-3-chloropropane	0.1240	0.1091	0.0100	12.000	100.00
1,2-Dibromoethane	0.4310	0.3939	0.0100	8.600	100.00
1,2-Dichlorobenzene	1.5150	1.3474	0.0100	11.100	100.00
1,3-Dichlorobenzene	1.7700	1.5361	0.0100	13.200	100.00
1,4-Dichlorobenzene	1.7430	1.5761	0.0100	9.600	100.00
Dichlorodifluoromethane	0.4390	0.3986	0.0100	9.200	100.00
1,1-Dichloroethane	0.9780	0.8796	0.1000	10.100	100.00
1,2-Dichloroethane	0.3960	0.3653	0.0100	7.800	100.00
1,1-Dichloroethene	0.5210	0.4540	0.0100	12.800	100.00
cis-1,2-Dichloroethene	0.4820	0.3194	0.0100	33.700	100.00
trans-1,2-Dichloroethene	0.5640	0.4984	0.0100	11.600	100.00
1,2-Dichloropropane	0.3330	0.2925	0.0100	12.200	20.00
cis-1,3-Dichloropropene	0.5420	0.4934	0.0100	9.000	100.00
trans-1,3-Dichloropropene	0.4390	0.3754	0.0100	14.500	100.00
Ethylbenzene	1.7270	1.4528	0.0100	15.900	20.00
2-Hexanone	0.1550	0.1301	0.0100	16.100	100.00
Isopropylbenzene	2.2400	1.9533	0.0100	12.800	100.00
Methylene chloride	0.5270	0.4371	0.0100	17.000	100.00
4-Methyl-2-pentanone	0.2360	0.1871	0.0100	20.700	100.00
Styrene	1.0670	0.9700	0.0100	9.100	100.00
1,1,2,2-Tetrachloroethane	0.6340	0.5204	0.3000	17.900	100.00
Tetrachloroethene	0.6890	0.6438	0.0100	6.600	100.00
Toluene	0.6720	0.6072	0.0100	9.600	20.00

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FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000449

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030201

Lab File ID: P3816 BFB Injection Date: 03/05/2004

Instrument ID: HP5973P BFB Injection Time: 09:16

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	50.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.7) 1
174	50 - 120 % of mass 95	65.5
175	5.0 - 9.0% of mass 174	4.9 (7.5) 1
176	95.0 - 101.0% of mass 174	64.0 (97.7) 1
177	5.0 - 9.0% of mass 176	4.0 (6.2) 2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000580-1	P3817.RR	03/05/2004	10:23
2	MSB58	A4178812	P3818.RR	03/05/2004	10:59
3	VBLK58	A4178811	P3819.RR	03/05/2004	11:35
4	GW03-009B-P5	A4178804	P3820.RR	03/05/2004	12:11

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000580-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030201

Lab File Id: P3817.RR Calibration Date: 03/05/2004 Time: 10:23

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0480	0.0338	0.0100	29.600	100.00
Benzene	1.3350	1.1146	0.0100	16.500	100.00
Bromodichloromethane	0.3950	0.3150	0.0100	20.200	100.00
Bromoform	0.2060	0.1644	0.1000	20.200	100.00
Bromomethane	0.0930	0.0813	0.0100	12.600	100.00
2-Butanone	0.0680	0.0481	0.0100	29.300	100.00
Methyl acetate	0.1560	0.1110	0.0100	28.800	100.00
Cyclohexane	0.7140	0.5252	0.0100	26.400	100.00
Methylcyclohexane	0.5590	0.4227	0.0100	24.400	100.00
Carbon Disulfide	1.1120	0.8849	0.0100	20.400	100.00
Carbon Tetrachloride	0.5240	0.4350	0.0100	17.000	100.00
Chlorobenzene	1.0930	0.9788	0.3000	10.400	100.00
Chloroethane	0.1420	0.1212	0.0100	14.600	100.00
Chloroform	0.6280	0.5206	0.0100	17.100	20.00
Chloromethane	0.4240	0.3964	0.1000	6.500	100.00
Dibromochloromethane	0.2430	0.2045	0.0100	15.800	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0549	0.0100	18.000	100.00
1,2-Dibromoethane	0.1880	0.1594	0.0100	15.200	100.00
1,2-Dichlorobenzene	1.3880	1.2548	0.0100	9.600	100.00
1,3-Dichlorobenzene	1.6650	1.5345	0.0100	7.800	100.00
1,4-Dichlorobenzene	1.6370	1.4885	0.0100	9.100	100.00
Dichlorodifluoromethane	0.4550	0.3640	0.0100	20.000	100.00
1,1-Dichloroethane	0.7700	0.6354	0.1000	17.500	100.00
1,2-Dichloroethane	0.4030	0.3239	0.0100	19.600	100.00
1,1-Dichloroethene	0.3170	0.2614	0.0100	17.500	100.00
cis-1,2-Dichloroethene	0.3490	0.2900	0.0100	16.900	100.00
trans-1,2-Dichloroethene	0.3420	0.2992	0.0100	12.500	100.00
1,2-Dichloropropane	0.3610	0.2945	0.0100	18.400	20.00
cis-1,3-Dichloropropene	0.4420	0.3527	0.0100	20.200	100.00
trans-1,3-Dichloropropene	0.4080	0.3519	0.0100	13.800	100.00
Ethylbenzene	1.9750	1.8421	0.0100	6.700	20.00
2-Hexanone	0.1110	0.0877	0.0100	21.000	100.00
Isopropylbenzene	3.7840	3.6070	0.0100	4.700	100.00
Methylene chloride	0.3390	0.2777	0.0100	18.100	100.00
4-Methyl-2-pentanone	0.1750	0.1341	0.0100	23.400	100.00
Styrene	1.1030	1.0636	0.0100	3.600	100.00
1,1,2,2-Tetrachloroethane	0.4080	0.3382	0.3000	17.100	100.00
Tetrachloroethene	0.3800	0.3443	0.0100	9.400	100.00
Toluene	0.9980	0.9240	0.0100	7.400	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000580-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030201

Lab File Id: P3817.RR Calibration Date: 03/05/2004 Time: 10:23

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9570	0.8564	0.0100	10.500	100.00
1,1,1-Trichloroethane	0.5960	0.4862	0.0100	18.400	100.00
1,1,2-Trichloroethane	0.1730	0.1461	0.0100	15.500	100.00
Trichloroethene	0.3550	0.2866	0.0100	19.300	100.00
Trichlorofluoromethane	0.3970	0.3500	0.0100	11.800	100.00
Vinyl chloride	0.3220	0.2719	0.0100	15.600	20.00
Total Xylenes	0.6980	0.6662	0.0100	4.600	100.00
Methyl tert butyl ether	0.4900	0.3387	0.0100	30.900	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3330	0.2532	0.0100	24.000	100.00
1,2-Dichloroethane-D4	0.3040	0.2609	0.0100	14.200	100.00
Toluene-D8	1.3410	1.4979	0.0100	-11.700	100.00
p-Bromofluorobenzene	0.3420	0.3389	0.0100	0.900	100.00

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FORM VII VOA

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10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-014A-P2

Lab Name: STL Buffalo

Case No.: SDG No.: 030201

Lab Sample ID : A4178801 Dates(s) Analyzed: 03/20/2004 03/20/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
delta-BHC	1	13.94	13.94	14.04	0.042	
	2	14.19	14.19	14.29	0.024	42.9

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FORM X PEST

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WATER SURROGATE RECOVERY

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030201

GC Column(1): ZB-5 ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	GW03-006A-P1	74		58								0
2	GW03-006A-P5	88		66								0
3	GW03-006B-P2	82		74								0
4	GW03-006B-P4	76		81								0
5	GW03-008A-P1	60		68								0
6	GW03-008A-P2	84		62								0
7	GW03-008A-P3	80		70								0
8	GW03-008B-P5	70		74								0
9	GW03-009B-P4	72		82								0
10	GW03-009B-P5	74		86								0
11	GW03-009B-P6	74		86								0
12	GW03-010A-P3	18	*	63								1
13	GW03-011B-P4	76		79								0
14	GW03-011B-P4MS	84		82								0
15	GW03-011B-P4SD	81		81								0
16	GW03-011C-P8	65		84								0
17	GW03-012A-P2	73		80								0
18	GW03-012B-P5	76		83								0
19	GW03-012B-P6	58		76								0
20	GW03-012C-P7	44		80								0
21	GW03-014A-P2	51		99								0
22	Matrix Spike Blank	70		77								0
23	Matrix Spike Blank	66		86								0
24	Matrix Spike Blank	40		113								0
25	Matrix Spike Blk Dup	48		98								0
26	Method Blank	60		62								0
27	Method Blank	64		83								0
28	Method Blank	43		90								0

QC LIMITS

(DCBP) = Decachlorobiphenyl (28-132)
(TCMX) = Tetrachloro-m-xylene (36-132)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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FORM II - GC EXT

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BLANKS

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 030201

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	-0.3		0.1	U	-0.2		0.1	U	-0.348		CV

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030201

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 3/8/2004 End Date: 3/8/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	15:36																X									
ICB	1.00	15:37																X									
CRA	1.00	15:39																X									
ZZZZZZ	1.00	15:40																									
ZZZZZZ	1.00	15:41																									
ZZZZZZ	1.00	15:43																									
ZZZZZZ	1.00	15:44																									
ZZZZZZ	1.00	15:45																									
ZZZZZZ	1.00	15:46																									
ZZZZZZ	1.00	15:47																									
ZZZZZZ	1.00	15:49																									
ZZZZZZ	1.00	15:50																									
ZZZZZZ	1.00	15:51																									
CCV	1.00	15:52																X									
CCB	1.00	15:53																X									
ZZZZZZ	1.00	15:55																									
ZZZZZZ	1.00	15:56																									
ZZZZZZ	1.00	15:57																									
ZZZZZZ	1.00	15:59																									
GW03-012B-P6	1.00	16:00																X									
ZZZZZZ	1.00	16:01																									
ZZZZZZ	1.00	16:03																									
GW03-011B-P4MS	1.00	16:04																X									
ZZZZZZ	1.00	16:06																									
LCS	1.00	16:08																X									
CCV	1.00	16:09																X									
CCB	1.00	16:10																X									
GW03-006A-P5	1.00	16:11																X									
GW03-006B-P4	1.00	16:12																X									
GW03-009B-P4	1.00	16:14																X									
GW03-009B-P6	1.00	16:15																X									
GW03-006B-P2	1.00	16:16																X									
ZZZZZZ	1.00	16:17																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030201

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 3/8/2004 End Date: 3/8/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	16:19																									
ZZZZZZ	1.00	16:20																									
ZZZZZZ	1.00	16:21																									
ZZZZZZ	1.00	16:23																									
CCV	1.00	16:24																X									
CCB	1.00	16:25																X									
ZZZZZZ	1.00	16:26																									
GW03-014A-P2	1.00	16:28																X									
ZZZZZZ	1.00	16:29																									
GW03-012C-P7	1.00	16:30																X									
ZZZZZZ	1.00	16:31																									
ZZZZZZ	1.00	16:32																									
ZZZZZZ	1.00	16:33																									
ZZZZZZ	1.00	16:34																									
ZZZZZZ	1.00	16:37																									
LCS	1.00	16:38																X									
CCV	1.00	16:39																X									
CCB	1.00	16:41																X									
ZZZZZZ	1.00	16:42																									
ZZZZZZ	1.00	16:43																									
ZZZZZZ	1.00	16:44																									
ZZZZZZ	1.00	16:45																									
ZZZZZZ	1.00	16:46																									
ZZZZZZ	1.00	16:47																									
ZZZZZZ	1.00	16:49																									
ZZZZZZ	1.00	16:50																									
ZZZZZZ	1.00	16:51																									
ZZZZZZ	1.00	16:53																									
CCV	1.00	16:54																X									
CCB	1.00	16:55																X									
ZZZZZZ	1.00	16:57																									
ZZZZZZ	1.00	16:58																									
ZZZZZZ	1.00	16:59																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030201

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 3/8/2004 End Date: 3/8/2004

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	17:01																									
ZZZZZZ	1.00	17:02																									
ZZZZZZ	1.00	17:03																									
ZZZZZZ	1.00	17:05																									
ZZZZZZ	1.00	17:06																									
ZZZZZZ	1.00	17:07																									
ZZZZZZ	1.00	17:08																									
CCV	1.00	17:09																X									
CCB	1.00	17:10																X									
ZZZZZZ	1.00	17:12																									
ZZZZZZ	1.00	17:13																									
ZZZZZZ	1.00	17:14																									
ZZZZZZ	1.00	17:15																									
ZZZZZZ	1.00	17:17																									
ZZZZZZ	1.00	17:19																									
ZZZZZZ	1.00	17:20																									
ZZZZZZ	1.00	17:21																									
ZZZZZZ	1.00	17:22																									
ZZZZZZ	1.00	17:24																									
CCV	1.00	17:25																X									
CCB	1.00	17:26																X									
ZZZZZZ	1.00	17:27																									
ZZZZZZ	1.00	17:28																									
ZZZZZZ	1.00	17:30																									
ZZZZZZ	1.00	17:31																									
ZZZZZZ	1.00	17:32																									
X Method Blank	1.00	17:34																X									
Method Blank	1.00	17:35																X									
ZZZZZZ	1.00	17:36																									
ZZZZZZ	1.00	17:37																									
CCV	1.00	17:38																X									
CCB	1.00	17:39																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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NON-CONFORMANCE SUMMARY

Job#: A04-1807,A04-1824,A04-1825,A04-1830,A04-1831,A04-1832,
A04-1861,A04-1875,A04-1876,A04-1905,A04-1906,A04-1908

STL Project#: NY3A9122
SDG#: 030401
Site Name: NEW YORK POWER AUTHORITY

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-1807
Sample Cooler(s) were received at the following temperature(s); 6 @ 2.0 °C
All samples were received in good condition.
A04-1824
Sample Cooler(s) were received at the following temperature(s); 6 @ 2.0 °C
All samples were received in good condition.
A04-1825
Sample Cooler(s) were received at the following temperature(s); 6 @ 2.0 °C
All samples were received in good condition.
A04-1830
Sample Cooler(s) were received at the following temperature(s); 4@3.0 °C
GW03-016B-P4 received with one TOC volume empty.
A04-1831
Sample Cooler(s) were received at the following temperature(s); 4@3.0 °C
All samples were received in good condition.
A04-1832
Sample Cooler(s) were received at the following temperature(s); 4@3.0 °C
All samples were received in good condition.
A04-1861
Sample Cooler(s) were received at the following temperature(s); 6@3.4 °C
All samples were received in good condition.
A04-1875
Sample Cooler(s) were received at the following temperature(s); 6@3.4 °C
Point GW03-009A-P1 was received with 1 empty voa vial.

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A04-1876
Sample Cooler(s) were received at the following temperature(s); 6@3.4 °C
All samples were received in good condition.
A04-1905
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.
A04-1906
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.
A04-1908
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

All volatile samples exhibited a pH of 7 at the time of analysis. The analysis was performed within 7 days of sampling, therefore there is no impact on data usability.

Initial calibration standard curve A4I0000143-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 9.98%.

Initial calibration standard curve A4I0000107-1 exhibited the %RSD of the compounds Bromomethane, Methylene Chloride and Acetone as greater than 15%. However, the mean RSD of all compounds is 6.80%.

Initial calibration standard curve A4I0000154-1 exhibited the %RSD of the compound Bromoform as greater than 15%. However, the mean RSD of all compounds is 6.36%.

The analyte 1,1,2-Trichloro-1,2,2-Trifluoroethane was detected in the Method Blank VBLK11 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The analyte 1,1,2-Trichloro-1,2,2-Trifluoroethane was detected in the trip blanks TBB2-030404 and TBC2-030404 at a level below the project established reporting limit. This analyte was not detected in any of the associated samples, therefore there is no impact on data usability.

The value obtained for Vinyl Chloride on sample GW03-015A-P1 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

GC/MS Semivolatile Data

Linear regression was used to calibrate analytes that were greater than 15% RSD in the initial calibration A4I0000139.

Dioxins and Furans were subcontracted to STL Knoxville. All data is included in this report as Appendix A.

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METHODS SUMMARY

Job#: A04-1807,A04-1824,A04-1825,A04-1830,A04-1831,A04-1832, A04-1861,A04-1875,A04-1876,A04-1905,A04-1906,A04-1908

STL Project#: NY3A9122
SDG#: 030401
Site Name: NEW YORK POWER AUTHORITY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8290 - TCL DIOXINS & FURANS	SW8463 8290
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Mercury - Total	SW8463 7470
Potassium - Total	SW8463 6010
Sodium - Total	SW8463 6010
Bicarbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0
E Coli	SM18 9221
Sulfate	MCAWW 300.0
Total Alkalinity	MCAWW 310.1
Total Bacteria Coliform	SM18 9222B
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2
Total Organic Carbon	MCAWW 415.1
Total Suspended Solids	MCAWW 160.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

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GC Extractable Data

For method 8082, some calibration verifications demonstrated an decreased instrument response, >15% difference, for the surrogate Decachlorobiphenyl. The theoretical consequence of this would be a low bias in the calculated surrogate recoveries. The associated sample surrogate recoveries are within the quality control limits. In the technical judgement of the laboratory, the sample data has not been impacted and no corrective action is required.

For method 8081 and 8082, the extracts for several samples required treatment with Copper prior to analysis due to the presence of elemental Sulfur. This is indicated for field samples and the associated batch quality control extracts in the injection logbook and on the individual report Form-1. The raw run data for any untreated extracts has been included in the raw quality control section of the data package.

For method 8081, severalcomponds exhibited a percent difference greater than 15% from the expected amount in the associated continuing calibrations. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant. No corrective action was required.

For method 8081, samples GW03-015C-P7, GW03-015B-P5, and GW03-009A-P2 were re-extracted out of holding time due to suspect non-historical positives present, possibly from a high level sample extracted in the same preparation batch. The "RE" samples are all non-detect, and both sets of data are reported. All positives in these original samples are to be considered estimated values.

Metals Data

The CCV, analyzed at (04:24), exhibited results below the quality control limits for Arsenic, Cadmium, Calcium, Lead, Magnesium, Potassium, and Sodium. However, the samples were bracketed by compliant CCV's, therefore, no corrective action was necessary.

The recovery of sample GW03-011A-P1 Matrix Spike exhibited results below the quality control limits for Calcium and the Matrix Spike Duplicate exhibited results below the quality control limits for Calcium and Sodium. The recovery of sample GW03-015A-P1 Matrix Spike and Matrix Spike Duplicate exhibited results above quality control limits for Calcium. The recovery of sample GW03-009A-P1 Matrix Spike exhibited results above quality control limits for Calcium. The sample results are more than four times greater than the spikes added. The LFB is acceptable.

The recovery of sample GW03-011A-P1 Post Spike exhibited results below the quality control limits for Calcium. The Serial Dilution of sample GW03-011A-P3 exceeded quality control limits for Sodium. However, the LFB was acceptable.

Wet Chemistry Data

Total Plate Count, E. Coli and Total Coliform were subcontracted to ACTS Testing Laboratory. All data is included in this report as Appendix A.

The values obtained for TDS on sample GW03-011A-P1 and GW03-016C-P7 are inconsistent with historical trends. The values were confirmed by the conductivity ratio.

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The value obtained for Total Hardness on sample GW03-016C-P7 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for TDS on sample GW03-016B-P4 is inconsistent with historical trends, however the conductance/TDS ratio was within range.

The value obtained for TDS on sample GW03-015A-P1 is inconsistent with historical trends, however the conductance/TDS ratio was within range.

The value obtained for Total Hardness on sample GW03-009A-P1 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for TDS on sample GW03-016A-P3 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for Bicarbonate and Total Alkalinity on sample GW03-015C-P7 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for Bicarbonate and Total Alkalinity on sample GW03-015B-P5 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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Client Sample ID	Lab Sample ID	Parameter (Inorganic)/Method (Organic)	Dilution	Code
GW03-011A-P1	A4182401	Chloride	50.00	002
GW03-011A-P1	A4182401	Potassium - Total	5.00	002
GW03-011A-P1	A4182401	Sodium - Total	5.00	008
GW03-011A-P1	A4182401	Sulfate	50.00	002
GW03-011A-P1	A4182401MS	Potassium - Total	5.00	002
GW03-011A-P1	A4182401MS	Sodium - Total	5.00	008
GW03-011A-P1	A4182401SD	Potassium - Total	5.00	002
GW03-011A-P1	A4182401SD	Sodium - Total	5.00	008
GW03-011C-P7	A4182402	Sulfate	10.00	008
GW03-016A-P1	A4182403	Sulfate	2.00	008
GW03-011A-P2	A4182404	Calcium - Total	100.00	008
GW03-011A-P2	A4182404	Chloride	200.00	008
GW03-011A-P2	A4182404	Potassium - Total	100.00	002
GW03-011A-P2	A4182404	Sodium - Total	100.00	008
GW03-011A-P2	A4182404	Sulfate	20.00	008
GW03-016C-P8	A4182406	Sulfate	2.00	008
GW03-011A-P3	A4183001	Calcium - Total	200.00	008
GW03-011A-P3	A4183001	Chloride	500.00	008
GW03-011A-P3	A4183001	Magnesium - Total	200.00	008
GW03-011A-P3	A4183001	Potassium - Total	200.00	008
GW03-011A-P3	A4183001	Sodium - Total	200.00	008
GW03-011A-P3	A4183001	Sulfate	50.00	008
GW03-012A-P3	A4183002	8260	5.00	008
GW03-012A-P3	A4183002	Calcium - Total	500.00	008
GW03-012A-P3	A4183002	Chloride	200.00	008
GW03-012A-P3	A4183002	Magnesium - Total	500.00	008
GW03-012A-P3	A4183002	Potassium - Total	500.00	008
GW03-012A-P3	A4183002	Sodium - Total	500.00	008
GW03-012A-P3	A4183002	Sulfate	100.00	008
GW03-016B-P4	A4183003	Sulfate	2.00	008
GW03-015B-P4	A4183004	Chloride	5.00	008
GW03-015B-P4	A4183004	Potassium - Total	5.00	002
GW03-015B-P4	A4183004	Sodium - Total	5.00	008
GW03-015B-P4	A4183004	Sulfate	10.00	008
GW03-015A-P1	A4187501	Sulfate	5.00	008
GW03-009A-P1	A4187502	Chloride	2.00	002
GW03-009A-P1	A4187502	Sulfate	10.00	008
GW03-009A-P1 MD	A4187502MD	Chloride	2.00	002
GW03-009A-P1 MD	A4187502MD	Sulfate	10.00	008
GW03-009A-P1 MS	A4187502MS	Chloride	2.00	002

Dilution Code Definition:

002 - sample matrix effects
003 - excessive foaming
004 - high levels of non-target compounds
005 - sample matrix resulted in method non-compliance for an Internal Standard
006 - sample matrix resulted in method non-compliance for Surrogate
007 - nature of the TCLP matrix
008 - high concentration of target analyte(s)
009 - sample turbidity
010 - sample color
011 - insufficient volume for lower dilution
012 - sample viscosity
013 - other

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000470

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Lab File ID: L4571 BFB Injection Date: 03/08/2004

Instrument ID: I50L BFB Injection Time: 21:27

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.9		
75	30.0 - 60.0% of mass 95	49.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.4		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	87.5		
175	5.0 - 9.0% of mass 174	5.4	(6.2)	1
176	95.0 - 101.0% of mass 174	85.3	(97.5)	1
177	5.0 - 9.0% of mass 176	5.4	(6.3)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000596-1	L4572.RR	03/08/2004	22:00
2	MSB03	A4187509	L4573.RR	03/08/2004	22:46
3	VBLK03	A4187508	L4574.RR	03/08/2004	23:19
4	TBD1-030504	A4187507	L4575.RR	03/08/2004	23:52
5	TBB1-030504	A4187506	L4576.RR	03/09/2004	00:25
6	TBA1-030504	A4187505	L4577.RR	03/09/2004	00:58
7	GW03-015A-P1	A4187501	L4587.RR	03/09/2004	06:26
8	GW03-009A-P1	A4187502	L4588.RR	03/09/2004	06:58
9	GW03-009A-P1 SD	A4187502SD	L4590.RR	03/09/2004	08:02
10	GW03-016B-P5	A4187503	L4591.RR	03/09/2004	08:33

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000596-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: L4572.RR Calibration Date: 03/08/2004 Time: 22:00

Intrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0680	0.0671	0.0100	1.300	100.00
Benzene	0.8480	0.8107	0.0100	4.400	100.00
Bromodichloromethane	0.7010	0.6786	0.0100	3.200	100.00
Bromoform	0.4780	0.5243	0.1000	-9.700	100.00
Bromomethane	0.5340	0.1435	0.0100	73.100	100.00
2-Butanone	0.0630	0.0692	0.0100	-9.800	100.00
Methyl acetate	0.2690	0.2861	0.0100	-6.400	100.00
Cyclohexane	0.3860	0.3591	0.0100	7.000	100.00
Methylcyclohexane	0.4230	0.4038	0.0100	4.500	100.00
Carbon Disulfide	1.2000	1.0440	0.0100	13.000	100.00
Carbon Tetrachloride	0.7720	0.7902	0.0100	-2.400	100.00
Chlorobenzene	1.0520	1.0235	0.3000	2.700	100.00
Chloroethane	0.4100	0.3767	0.0100	8.100	100.00
Chloroform	0.6720	0.6603	0.0100	1.700	20.00
Chloromethane	0.2770	0.2698	0.1000	2.600	100.00
Dibromochloromethane	0.6740	0.7130	0.0100	-5.800	100.00
1,2-Dibromo-3-chloropropane	0.1240	0.1334	0.0100	-7.600	100.00
1,2-Dibromoethane	0.4310	0.4565	0.0100	-5.900	100.00
1,2-Dichlorobenzene	1.5150	1.4571	0.0100	3.800	100.00
1,3-Dichlorobenzene	1.7700	1.6818	0.0100	5.000	100.00
1,4-Dichlorobenzene	1.7430	1.6826	0.0100	3.500	100.00
Dichlorodifluoromethane	0.4390	0.4252	0.0100	3.100	100.00
1,1-Dichloroethane	0.9780	0.9653	0.1000	1.300	100.00
1,2-Dichloroethane	0.3960	0.4123	0.0100	-4.100	100.00
1,1-Dichloroethene	0.5210	0.5032	0.0100	3.400	100.00
cis-1,2-Dichloroethene	0.4820	0.5520	0.0100	-14.500	100.00
trans-1,2-Dichloroethene	0.5640	0.5422	0.0100	3.900	100.00
1,2-Dichloropropane	0.3330	0.3328	0.0100	0.100	20.00
cis-1,3-Dichloropropene	0.5420	0.5321	0.0100	1.800	100.00
trans-1,3-Dichloropropene	0.4390	0.4350	0.0100	0.900	100.00
Ethylbenzene	1.7270	1.5904	0.0100	7.900	20.00
2-Hexanone	0.1550	0.1568	0.0100	-1.200	100.00
Isopropylbenzene	2.2400	2.0894	0.0100	6.700	100.00
Methylene chloride	0.5270	0.4893	0.0100	7.200	100.00
4-Methyl-2-pentanone	0.2360	0.2318	0.0100	1.800	100.00
Styrene	1.0670	1.0583	0.0100	0.800	100.00
1,1,2,2-Tetrachloroethane	0.6340	0.6238	0.3000	1.600	100.00
Tetrachloroethene	0.6890	0.6865	0.0100	0.400	100.00
Toluene	0.6720	0.6537	0.0100	2.700	20.00

4/29/04 m

FORM VII VOA

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000596-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: L4572.RR Calibration Date: 03/08/2004 Time: 22:00

Intrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.2910	1.1958	0.0100	7.400	100.00
1,1,1-Trichloroethane	0.7410	0.7339	0.0100	1.000	100.00
1,1,2-Trichloroethane	0.2650	0.2733	0.0100	-3.100	100.00
Trichloroethene	0.4410	0.4290	0.0100	2.700	100.00
Trichlorofluoromethane	1.4120	1.4263	0.0100	-1.000	100.00
Vinyl chloride	0.3890	0.3955	0.0100	-1.700	20.00
Total Xylenes	0.6600	0.6489	0.0100	1.700	100.00
Methyl tert butyl ether	1.1930	1.1297	0.0100	5.300	100.00
1,1,2-Trichloro-1,2,2-trifluoro	1.0030	0.9773	0.0100	2.600	100.00
1,2-Dichloroethane-D4	0.3640	0.3501	0.0100	3.800	100.00
Toluene-D8	1.0340	0.9971	0.0100	3.600	100.00
p-Bromofluorobenzene	0.6770	0.6516	0.0100	3.800	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000478

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Lab File ID: L4593 BFB Injection Date: 03/09/2004

Instrument ID: I50L BFB Injection Time: 09:11

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.8		
75	30.0 - 60.0% of mass 95	49.1		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.8		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	90.5		
175	5.0 - 9.0% of mass 174	6.3	(7.0)	1
176	95.0 - 101.0% of mass 174	89.2	(98.6)	1
177	5.0 - 9.0% of mass 176	5.1	(5.7)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000603-1	L4594.RR	03/09/2004	10:33
2	MSB04	A4187511	L4595.RR	03/09/2004	11:21
3	VBLK04	A4187510	L4596.RR	03/09/2004	11:53
4	GW03-016A-P2	A4187504	L4597.RR	03/09/2004	12:24
5	GW03-009A-P1 MS	A4187502MS	L4598.RR	03/09/2004	12:56

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000603-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: L4594.RR Calibration Date: 03/09/2004 Time: 10:33

Intrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0680	0.0646	0.0100	5.000	100.00
Benzene	0.8480	0.8567	0.0100	-1.000	100.00
Bromodichloromethane	0.7010	0.6600	0.0100	5.800	100.00
Bromoform	0.4780	0.4560	0.1000	4.600	100.00
Bromomethane	0.5340	0.2313	0.0100	56.700	100.00
2-Butanone	0.0630	0.0495	0.0100	21.400	100.00
Methyl acetate	0.2690	0.2729	0.0100	-1.400	100.00
Cyclohexane	0.3860	0.4079	0.0100	-5.700	100.00
Methylcyclohexane	0.4230	0.4547	0.0100	-7.500	100.00
Carbon Disulfide	1.2000	1.3235	0.0100	-10.300	100.00
Carbon Tetrachloride	0.7720	0.7931	0.0100	-2.700	100.00
Chlorobenzene	1.0520	1.0118	0.3000	3.800	100.00
Chloroethane	0.4100	0.4231	0.0100	-3.200	100.00
Chloroform	0.6720	0.6684	0.0100	0.500	20.00
Chloromethane	0.2770	0.2597	0.1000	6.200	100.00
Dibromochloromethane	0.6740	0.6710	0.0100	0.400	100.00
1,2-Dibromo-3-chloropropane	0.1240	0.1109	0.0100	10.600	100.00
1,2-Dibromoethane	0.4310	0.4280	0.0100	0.700	100.00
1,2-Dichlorobenzene	1.5150	1.4058	0.0100	7.200	100.00
1,3-Dichlorobenzene	1.7700	1.6905	0.0100	4.500	100.00
1,4-Dichlorobenzene	1.7430	1.6795	0.0100	3.600	100.00
Dichlorodifluoromethane	0.4390	0.3995	0.0100	9.000	100.00
1,1-Dichloroethane	0.9780	1.0882	0.1000	-11.300	100.00
1,2-Dichloroethane	0.3960	0.4162	0.0100	-5.100	100.00
1,1-Dichloroethene	0.5210	0.5522	0.0100	-6.000	100.00
cis-1,2-Dichloroethene	0.4820	0.3550	0.0100	26.300	100.00
trans-1,2-Dichloroethene	0.5640	0.5922	0.0100	-5.000	100.00
1,2-Dichloropropane	0.3330	0.3383	0.0100	-1.600	20.00
cis-1,3-Dichloropropene	0.5420	0.5443	0.0100	-0.400	100.00
trans-1,3-Dichloropropene	0.4390	0.4077	0.0100	7.100	100.00
Ethylbenzene	1.7270	1.6068	0.0100	7.000	20.00
2-Hexanone	0.1550	0.1342	0.0100	13.400	100.00
Isopropylbenzene	2.2400	2.1053	0.0100	6.000	100.00
Methylene chloride	0.5270	0.5138	0.0100	2.500	100.00
4-Methyl-2-pentanone	0.2360	0.1995	0.0100	15.500	100.00
Styrene	1.0670	1.0806	0.0100	-1.300	100.00
1,1,2,2-Tetrachloroethane	0.6340	0.5409	0.3000	14.700	100.00
Tetrachloroethene	0.6890	0.6967	0.0100	-1.100	100.00
Toluene	0.6720	0.6593	0.0100	1.900	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000603-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: L4594.RR Calibration Date: 03/09/2004 Time: 10:33

Intrument ID: I50L Init. Calib. Date(s): 03/01/2004 03/01/2004

Heated Purge (Y/N): N Init. Calib. Times: 10:07 14:46

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.2910	1.1605	0.0100	10.100	100.00
1,1,1-Trichloroethane	0.7410	0.7330	0.0100	1.100	100.00
1,1,2-Trichloroethane	0.2650	0.2545	0.0100	4.000	100.00
Trichloroethene	0.4410	0.4346	0.0100	1.400	100.00
Trichlorofluoromethane	1.4120	1.4601	0.0100	-3.400	100.00
Vinyl chloride	0.3890	0.3936	0.0100	-1.200	20.00
Total Xylenes	0.6600	0.6538	0.0100	0.900	100.00
Methyl tert butyl ether	1.1930	1.1376	0.0100	4.600	100.00
1,1,2-Trichloro-1,2,2-trifluoro	1.0030	1.1302	0.0100	-12.700	100.00
1,2-Dichloroethane-D4	0.3640	0.3510	0.0100	3.600	100.00
Toluene-D8	1.0340	1.0000	0.0100	3.300	100.00
p-Bromofluorobenzene	0.6770	0.6487	0.0100	4.200	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000465

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Lab File ID: M8423 BFB Injection Date: 03/05/2004

Instrument ID: I50M BFB Injection Time: 21:49

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.5		
75	30.0 - 60.0% of mass 95	47.2		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.1		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	84.8		
175	5.0 - 9.0% of mass 174	5.8	(6.8)	1
176	95.0 - 101.0% of mass 174	84.3	(99.4)	1
177	5.0 - 9.0% of mass 176	5.4	(6.4)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000592-1	M8424.RR	03/05/2004	22:06
2	MSB11	A4183009	M8425.RR	03/05/2004	22:52
3	VBLK11	A4183008	M8427.RR	03/06/2004	00:06
4	TBC2-030404	A4183007	M8428.RR	03/06/2004	00:35
5	TBB2-030404	A4183006	M8429.RR	03/06/2004	01:04
6	TBA1-030404	A4183005	M8430.RR	03/06/2004	01:33
7	GW03-015B-P4	A4183004	M8440.RR	03/06/2004	06:22
8	GW03-016B-P4	A4183003	M8441.RR	03/06/2004	06:51
9	GW03-011A-P3	A4183001	M8442.RR	03/06/2004	07:20
10	GW03-012A-P3	A4183002	M8443.RR	03/06/2004	07:49

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000592-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: M8424.RR Calibration Date: 03/05/2004 Time: 22:06

Intrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

Heated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0330	0.0401	0.0100	-21.500	100.00
Benzene	1.3830	1.3894	0.0100	-0.500	100.00
Bromodichloromethane	0.3180	0.3578	0.0100	-12.500	100.00
Bromoform	0.2400	0.2482	0.1000	-3.400	100.00
Bromomethane	0.2610	0.1919	0.0100	26.500	100.00
2-Butanone	0.0580	0.0724	0.0100	-24.800	100.00
Methyl acetate	0.1360	0.1486	0.0100	-9.300	100.00
Cyclohexane	0.6480	0.6348	0.0100	2.000	100.00
Methylcyclohexane	0.5930	0.5540	0.0100	6.600	100.00
Carbon Disulfide	0.9930	0.9621	0.0100	3.100	100.00
Carbon Tetrachloride	0.3090	0.3408	0.0100	-10.300	100.00
Chlorobenzene	1.0690	0.9888	0.3000	7.500	100.00
Chloroethane	0.2650	0.2621	0.0100	1.100	100.00
Chloroform	0.5140	0.5489	0.0100	-6.800	20.00
Chloromethane	0.5010	0.4930	0.1000	1.600	100.00
Dibromochloromethane	0.2100	0.2253	0.0100	-7.300	100.00
1,2-Dibromo-3-chloropropane	0.0510	0.0511	0.0100	-0.200	100.00
1,2-Dibromoethane	0.1730	0.1792	0.0100	-3.600	100.00
1,2-Dichlorobenzene	1.3130	1.1583	0.0100	11.800	100.00
1,3-Dichlorobenzene	1.6690	1.4112	0.0100	15.400	100.00
1,4-Dichlorobenzene	1.7190	1.4754	0.0100	14.200	100.00
Dichlorodifluoromethane	0.2750	0.2873	0.0100	-4.500	100.00
1,1-Dichloroethane	0.5930	0.6258	0.1000	-5.500	100.00
1,2-Dichloroethane	0.2390	0.2861	0.0100	-19.700	100.00
1,1-Dichloroethene	0.2810	0.2788	0.0100	0.800	100.00
cis-1,2-Dichloroethene	0.3630	0.3811	0.0100	-5.000	100.00
trans-1,2-Dichloroethene	0.3400	0.3445	0.0100	-1.300	100.00
1,2-Dichloropropane	0.3340	0.3621	0.0100	-8.400	20.00
cis-1,3-Dichloropropene	0.4180	0.4134	0.0100	1.100	100.00
trans-1,3-Dichloropropene	0.3510	0.3627	0.0100	-3.300	100.00
Ethylbenzene	1.8150	1.6743	0.0100	7.800	20.00
2-Hexanone	0.1130	0.1340	0.0100	-18.600	100.00
Isopropylbenzene	4.0730	3.5295	0.0100	13.300	100.00
Methylene chloride	0.3180	0.3117	0.0100	2.000	100.00
4-Methyl-2-pentanone	0.1680	0.1985	0.0100	-18.200	100.00
Styrene	1.0880	0.9743	0.0100	10.400	100.00
1,1,2,2-Tetrachloroethane	0.4580	0.4938	0.3000	-7.800	100.00
Tetrachloroethene	0.4360	0.3989	0.0100	8.500	100.00
Toluene	1.1030	1.0223	0.0100	7.300	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000592-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: M8424.RR Calibration Date: 03/05/2004 Time: 22:06

Intrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

Heated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8850	0.6966	0.0100	21.300	100.00
1,1,1-Trichloroethane	0.3970	0.4182	0.0100	-5.300	100.00
1,1,2-Trichloroethane	0.1770	0.1919	0.0100	-8.400	100.00
Trichloroethene	0.3440	0.3356	0.0100	2.400	100.00
Trichlorofluoromethane	0.3620	0.3608	0.0100	0.300	100.00
Vinyl chloride	0.4330	0.4139	0.0100	4.400	20.00
Total Xylenes	0.6930	0.6048	0.0100	12.700	100.00
Methyl tert butyl ether	0.4410	0.4470	0.0100	-1.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2710	0.3143	0.0100	-16.000	100.00
1,2-Dichloroethane-D4	0.1920	0.2440	0.0100	-27.100	100.00
Toluene-D8	1.4250	1.4706	0.0100	-3.200	100.00
p-Bromofluorobenzene	0.3400	0.3336	0.0100	1.900	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000472

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Lab File ID: M8446 BFB Injection Date: 03/08/2004

Instrument ID: I50M BFB Injection Time: 08:26

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.0		
75	30.0 - 60.0% of mass 95	46.2		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.7		
173	Less than 2.0% of mass 174	0.4	(0.5)	1
174	50 - 120 % of mass 95	77.0		
175	5.0 - 9.0% of mass 174	5.6	(7.3)	1
176	95.0 - 101.0% of mass 174	77.2	(100.2)	1
177	5.0 - 9.0% of mass 176	5.0	(6.5)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000598-1	M8447.RR	03/08/2004	08:55
2	MSB12	A4182411	M8448.RR	03/08/2004	09:42
3	VBLK12	A4182410	M8449.RR	03/08/2004	10:11
4	TBD1-030404	A4182409	M8450.RR	03/08/2004	10:40
5	TBC1-030404	A4182408	M8451.RR	03/08/2004	11:09
6	TBB-1-030404	A4182407	M8452.RR	03/08/2004	11:38
7	GW03-016C-P8	A4182406	M8453.RR	03/08/2004	12:07
8	GW03-016C-P7	A4182405	M8454.RR	03/08/2004	12:36
9	GW03-011A-P2	A4182404	M8455.RR	03/08/2004	13:05
10	GW03-016A-P1	A4182403	M8456.RR	03/08/2004	13:34
11	GW03-011C-P7	A4182402	M8457.RR	03/08/2004	14:03
12	GW03-011A-P1	A4182401	M8458.RR	03/08/2004	14:32

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CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000598-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: M8447.RR Calibration Date: 03/08/2004 Time: 08:55

Intrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

Heated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0330	0.0313	0.0100	5.200	100.00
Benzene	1.3830	1.4120	0.0100	-2.100	100.00
Bromodichloromethane	0.3180	0.3428	0.0100	-7.800	100.00
Bromoform	0.2400	0.2301	0.1000	4.100	100.00
Bromomethane	0.2610	0.0779	0.0100	70.200	100.00
2-Butanone	0.0580	0.0558	0.0100	3.800	100.00
Methyl acetate	0.1360	0.1273	0.0100	6.400	100.00
Cyclohexane	0.6480	0.6140	0.0100	5.200	100.00
Methylcyclohexane	0.5930	0.5386	0.0100	9.200	100.00
Carbon Disulfide	0.9930	0.9892	0.0100	0.400	100.00
Carbon Tetrachloride	0.3090	0.3532	0.0100	-14.300	100.00
Chlorobenzene	1.0690	1.0490	0.3000	1.900	100.00
Chloroethane	0.2650	0.2560	0.0100	3.400	100.00
Chloroform	0.5140	0.5465	0.0100	-6.300	20.00
Chloromethane	0.5010	0.4284	0.1000	14.500	100.00
Dibromochloromethane	0.2100	0.2223	0.0100	-5.800	100.00
1,2-Dibromo-3-chloropropane	0.0510	0.0457	0.0100	10.400	100.00
1,2-Dibromoethane	0.1730	0.1788	0.0100	-3.400	100.00
1,2-Dichlorobenzene	1.3130	1.1815	0.0100	10.000	100.00
1,3-Dichlorobenzene	1.6690	1.5135	0.0100	9.300	100.00
1,4-Dichlorobenzene	1.7190	1.5999	0.0100	6.900	100.00
Dichlorodifluoromethane	0.2750	0.2633	0.0100	4.200	100.00
1,1-Dichloroethane	0.5930	0.6597	0.1000	-11.200	100.00
1,2-Dichloroethane	0.2390	0.2750	0.0100	-15.100	100.00
1,1-Dichloroethene	0.2810	0.2733	0.0100	2.700	100.00
cis-1,2-Dichloroethene	0.3630	0.3658	0.0100	-0.800	100.00
trans-1,2-Dichloroethene	0.3400	0.3502	0.0100	-3.000	100.00
1,2-Dichloropropane	0.3340	0.3493	0.0100	-4.600	20.00
cis-1,3-Dichloropropene	0.4180	0.4079	0.0100	2.400	100.00
trans-1,3-Dichloropropene	0.3510	0.3565	0.0100	-1.600	100.00
Ethylbenzene	1.8150	1.8750	0.0100	-3.300	20.00
2-Hexanone	0.1130	0.1071	0.0100	5.200	100.00
Isopropylbenzene	4.0730	4.1096	0.0100	-0.900	100.00
Methylene chloride	0.3180	0.3052	0.0100	4.000	100.00
4-Methyl-2-pentanone	0.1680	0.1618	0.0100	3.700	100.00
Styrene	1.0880	1.0550	0.0100	3.000	100.00
1,1,2,2-Tetrachloroethane	0.4580	0.4960	0.3000	-8.300	100.00
Tetrachloroethene	0.4360	0.4178	0.0100	4.200	100.00
Toluene	1.1030	1.0939	0.0100	0.800	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000598-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: M8447.RR Calibration Date: 03/08/2004 Time: 08:55

Intrument ID: I50M Init. Calib. Date(s): 02/16/2004 02/16/2004

Heated Purge (Y/N): N Init. Calib. Times: 18:47 21:09

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.8850	0.6891	0.0100	22.100	100.00
1,1,1-Trichloroethane	0.3970	0.4200	0.0100	-5.800	100.00
1,1,2-Trichloroethane	0.1770	0.1867	0.0100	-5.500	100.00
Trichloroethene	0.3440	0.3408	0.0100	0.900	100.00
Trichlorofluoromethane	0.3620	0.3511	0.0100	3.000	100.00
Vinyl chloride	0.4330	0.3878	0.0100	10.400	20.00
Total Xylenes	0.6930	0.6542	0.0100	5.600	100.00
Methyl tert butyl ether	0.4410	0.3822	0.0100	13.300	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.2710	0.2470	0.0100	8.800	100.00
1,2-Dichloroethane-D4	0.1920	0.2265	0.0100	-18.000	100.00
Toluene-D8	1.4250	1.5079	0.0100	-5.800	100.00
p-Bromofluorobenzene	0.3400	0.3247	0.0100	4.500	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000503

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Lab File ID: N4743 BFB Injection Date: 03/10/2004

Instrument ID: HP5973N BFB Injection Time: 08:32

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.7		
75	30.0 - 60.0% of mass 95	52.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.6		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	67.0		
175	5.0 - 9.0% of mass 174	5.4	(8.0)	1
176	95.0 - 101.0% of mass 174	66.9	(99.9)	1
177	5.0 - 9.0% of mass 176	4.0	(6.0)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000635-1	N4744.RR	03/10/2004	09:00
2	MSB34	A4190810	N4745.RR	03/10/2004	09:43
3	VBLK34	A4190809	N4746.RR	03/10/2004	10:13
4	GW03-016A-P3	A4190804	N4753.RR	03/10/2004	13:46
5	TBC1-030804	A4190805	N4754.RR	03/10/2004	14:17
6	TBB1-030804	A4190806	N4755.RR	03/10/2004	14:47
7	TBD1-030804	A4190807	N4756.RR	03/10/2004	15:18
8	TBA1-030804	A4190808	N4757.RR	03/10/2004	15:48

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CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000635-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: N4744.RR Calibration Date: 03/10/2004 Time: 09:00

Intrument ID: HP5973N Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 22:08 23:38

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.3240	0.3689	0.1000	-13.800	100.00
Bromomethane	0.1220	0.1336	0.0100	-9.500	100.00
Vinyl chloride	0.3040	0.2815	0.0100	7.400	20.00
Chloroethane	0.1510	0.1478	0.0100	2.100	100.00
Methylene chloride	0.3480	0.3255	0.0100	6.500	100.00
Acetone	0.0320	0.0295	0.0100	7.800	100.00
Carbon Disulfide	1.2710	1.2683	0.0100	0.200	100.00
1,1-Dichloroethene	0.3470	0.3571	0.0100	-2.900	100.00
1,1-Dichloroethane	0.7640	0.7941	0.1000	-3.900	100.00
cis-1,2-Dichloroethene	0.3940	0.3933	0.0100	0.200	100.00
trans-1,2-Dichloroethene	0.3880	0.4072	0.0100	-4.900	100.00
Chloroform	0.6610	0.6779	0.0100	-2.600	20.00
1,2-Dichloroethane	0.3520	0.3377	0.0100	4.100	100.00
2-Butanone	0.0500	0.0434	0.0100	13.200	100.00
1,1,1-Trichloroethane	0.6000	0.6521	0.0100	-8.700	100.00
Carbon Tetrachloride	0.5070	0.5463	0.0100	-7.800	100.00
Bromodichloromethane	0.3910	0.3672	0.0100	6.100	100.00
1,2-Dichloropropane	0.3690	0.3503	0.0100	5.100	20.00
cis-1,3-Dichloropropene	0.4860	0.4349	0.0100	10.500	100.00
Trichloroethene	0.4110	0.4210	0.0100	-2.400	100.00
Dibromochloromethane	0.2170	0.1981	0.0100	8.700	100.00
1,1,2-Trichloroethane	0.1810	0.1669	0.0100	7.800	100.00
Benzene	1.6650	1.6739	0.0100	-0.500	100.00
trans-1,3-Dichloropropene	0.5770	0.5425	0.0100	6.000	100.00
Bromoform	0.1880	0.1686	0.1000	10.300	100.00
4-Methyl-2-pentanone	0.1310	0.1123	0.0100	14.300	100.00
2-Hexanone	0.0830	0.0721	0.0100	13.100	100.00
Tetrachloroethene	0.4580	0.5233	0.0100	-14.200	100.00
1,1,2,2-Tetrachloroethane	0.4160	0.3758	0.3000	9.700	100.00
Toluene	1.2320	1.3323	0.0100	-8.100	20.00
Chlorobenzene	1.1920	1.2265	0.3000	-2.900	100.00
Ethylbenzene	2.4190	2.6774	0.0100	-10.700	20.00
Styrene	1.2880	1.3468	0.0100	-4.600	100.00
Total Xylenes	0.8220	0.8885	0.0100	-8.100	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3510	0.3792	0.0100	-8.000	100.00
1,2,4-Trichlorobenzene	1.2500	1.2309	0.0100	1.500	100.00
1,2-Dibromo-3-chloropropane	0.0620	0.0539	0.0100	13.100	100.00
1,2-Dibromoethane	0.1850	0.1635	0.0100	11.600	100.00
1,2-Dichlorobenzene	1.5160	1.5689	0.0100	-3.500	100.00

4/29/04

FORM VII VOA

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000635-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: N4744.RR Calibration Date: 03/10/2004 Time: 09:00

Intrument ID: HP5973N Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 22:08 23:38

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,3-Dichlorobenzene	1.8320	2.0045	0.0100	-9.400	100.00
1,4-Dichlorobenzene	1.8260	1.9331	0.0100	-5.900	100.00
Cyclohexane	0.7560	0.7573	0.0100	-0.200	100.00
Dichlorodifluoromethane	0.4550	0.3367	0.0100	26.000	100.00
Methyl acetate	0.1120	0.0983	0.0100	12.200	100.00
Trichlorofluoromethane	0.4010	0.3779	0.0100	5.800	100.00
Methyl tert butyl ether	0.4290	0.3613	0.0100	15.800	100.00
Isopropylbenzene	4.7760	5.5385	0.0100	-16.000	100.00
Methylcyclohexane	0.6920	0.6929	0.0100	-0.100	100.00
Toluene-D8	1.4780	1.4902	0.0100	-0.800	100.00
p-Bromofluorobenzene	0.3710	0.3509	0.0100	5.400	100.00
1,2-Dichloroethane-D4	0.2490	0.2276	0.0100	8.600	100.00

4/29/04

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000502

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Lab File ID: N4762 BFB Injection Date: 03/10/2004

Instrument ID: HP5973N BFB Injection Time: 18:25

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.4		
75	30.0 - 60.0% of mass 95	52.3		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	8.0		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	66.1		
175	5.0 - 9.0% of mass 174	4.7	(7.1)	1
176	95.0 - 101.0% of mass 174	66.4	(100.4)	1
177	5.0 - 9.0% of mass 176	4.4	(6.7)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000634-1	N4763.RR	03/10/2004	18:40
2	MSB35	A4190812	N4764.RR	03/10/2004	19:08
3	VBLK35	A4190811	N4765.RR	03/10/2004	19:37
4	GW03-009A-P2	A4190803	N4771.RR	03/10/2004	22:40
5	GW03-015C-P7	A4190801	N4772.RR	03/10/2004	23:10
6	GW03-015B-P5	A4190802	N4773.RR	03/10/2004	23:41

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000634-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: N4763.RR Calibration Date: 03/10/2004 Time: 18:40

Intrument ID: HP5973N Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 22:08 23:38

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.3240	0.3618	0.1000	-11.700	100.00
Bromomethane	0.1220	0.0821	0.0100	32.700	100.00
Vinyl chloride	0.3040	0.3118	0.0100	-2.600	20.00
Chloroethane	0.1510	0.1612	0.0100	-6.800	100.00
Methylene chloride	0.3480	0.3183	0.0100	8.500	100.00
Acetone	0.0320	0.0271	0.0100	15.300	100.00
Carbon Disulfide	1.2710	1.2257	0.0100	3.600	100.00
1,1-Dichloroethene	0.3470	0.3372	0.0100	2.800	100.00
1,1-Dichloroethane	0.7640	0.7727	0.1000	-1.100	100.00
cis-1,2-Dichloroethene	0.3940	0.3797	0.0100	3.600	100.00
trans-1,2-Dichloroethene	0.3880	0.3917	0.0100	-1.000	100.00
Chloroform	0.6610	0.6638	0.0100	-0.400	20.00
1,2-Dichloroethane	0.3520	0.3336	0.0100	5.200	100.00
2-Butanone	0.0500	0.0383	0.0100	23.400	100.00
1,1,1-Trichloroethane	0.6000	0.6338	0.0100	-5.600	100.00
Carbon Tetrachloride	0.5070	0.5339	0.0100	-5.300	100.00
Bromodichloromethane	0.3910	0.3577	0.0100	8.500	100.00
1,2-Dichloropropane	0.3690	0.3372	0.0100	8.600	20.00
cis-1,3-Dichloropropene	0.4860	0.4119	0.0100	15.200	100.00
Trichloroethene	0.4110	0.4037	0.0100	1.800	100.00
Dibromochloromethane	0.2170	0.1849	0.0100	14.800	100.00
1,1,2-Trichloroethane	0.1810	0.1606	0.0100	11.300	100.00
Benzene	1.6650	1.6172	0.0100	2.900	100.00
trans-1,3-Dichloropropene	0.5770	0.5074	0.0100	12.100	100.00
Bromoform	0.1880	0.1566	0.1000	16.700	100.00
4-Methyl-2-pentanone	0.1310	0.1040	0.0100	20.600	100.00
2-Hexanone	0.0830	0.0668	0.0100	19.500	100.00
Tetrachloroethene	0.4580	0.5006	0.0100	-9.300	100.00
1,1,2,2-Tetrachloroethane	0.4160	0.3628	0.3000	12.800	100.00
Toluene	1.2320	1.2703	0.0100	-3.100	20.00
Chlorobenzene	1.1920	1.1827	0.3000	0.800	100.00
Ethylbenzene	2.4190	2.5724	0.0100	-6.300	20.00
Styrene	1.2880	1.3003	0.0100	-1.000	100.00
Total Xylenes	0.8220	0.8567	0.0100	-4.200	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3510	0.3656	0.0100	-4.200	100.00
1,2,4-Trichlorobenzene	1.2500	1.1463	0.0100	8.300	100.00
1,2-Dibromo-3-chloropropane	0.0620	0.0522	0.0100	15.800	100.00
1,2-Dibromoethane	0.1850	0.1575	0.0100	14.900	100.00
1,2-Dichlorobenzene	1.5160	1.4728	0.0100	2.800	100.00

4/29/04 pm

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000634-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030401

Lab File Id: N4763.RR Calibration Date: 03/10/2004 Time: 18:40

Intrument ID: HP5973N Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 22:08 23:38

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,3-Dichlorobenzene	1.8320	1.9077	0.0100	-4.100	100.00
1,4-Dichlorobenzene	1.8260	1.8288	0.0100	-0.200	100.00
Cyclohexane	0.7560	0.7237	0.0100	4.300	100.00
Dichlorodifluoromethane	0.4550	0.4102	0.0100	9.800	100.00
Methyl acetate	0.1120	0.0920	0.0100	17.800	100.00
Trichlorofluoromethane	0.4010	0.4709	0.0100	-17.400	100.00
Methyl tert butyl ether	0.4290	0.3380	0.0100	21.200	100.00
Isopropylbenzene	4.7760	5.1443	0.0100	-7.700	100.00
Methylcyclohexane	0.6920	0.6646	0.0100	4.000	100.00
Toluene-D8	1.4780	1.5024	0.0100	-1.600	100.00
p-Bromofluorobenzene	0.3710	0.3587	0.0100	3.300	100.00
1,2-Dichloroethane-D4	0.2490	0.2378	0.0100	4.500	100.00

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VBLK11

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Lab File ID: M8427.RR Lab Sample ID: A4183008

Date Analyzed: 03/06/2004 Time Analyzed: 00:06

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: I50M

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
1	GW03-011A-P3	A4183001	M8442.RR	07:20
2	GW03-012A-P3	A4183002	M8443.RR	07:49
3	GW03-015B-P4	A4183004	M8440.RR	06:22
4	GW03-016B-P4	A4183003	M8441.RR	06:51
5	MSB11	A4183009	M8425.RR	22:52
6	TBA1-030404	A4183005	M8430.RR	01:33
7	TBB2-030404	A4183006	M8429.RR	01:04
8	TBC2-030404	A4183007	M8428.RR	00:35

Comments: _____

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Client No.

VBLK11

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Matrix: (soil/water) WATER Lab Sample ID: A4183008

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: M8427.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 03/06/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
67-64-1	Acetone	5.0	U
71-43-2	Benzene	1.0	U
75-27-4	Bromodichloromethane	1.0	U
75-25-2	Bromoform	1.0	U
74-83-9	Bromomethane	1.0	U
78-93-3	2-Butanone	5.0	U
75-15-0	Carbon Disulfide	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
108-90-7	Chlorobenzene	1.0	U
75-00-3	Chloroethane	1.0	U
67-66-3	Chloroform	1.0	U
74-87-3	Chloromethane	1.0	U
110-82-7	Cyclohexane	1.0	U
106-93-4	1,2-Dibromoethane	1.0	U
124-48-1	Dibromochloromethane	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
75-71-8	Dichlorodifluoromethane	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
75-35-4	1,1-Dichloroethene	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	U
100-41-4	Ethylbenzene	1.0	U
591-78-6	2-Hexanone	5.0	U
98-82-8	Isopropylbenzene	1.0	U
79-20-9	Methyl acetate	1.0	U
108-87-2	Methylcyclohexane	1.0	U
75-09-2	Methylene chloride	1.0	U

FORM I - GC/MS VOA

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Client No.

VBLK11

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030401

Matrix: (soil/water) WATER Lab Sample ID: A4183008

Sample wt/vol: 25.00 (g/mL) ML Lab File ID: M8427.RR

Level: (low/med) LOW Date Samp/Recv: _____ _____

% Moisture: not dec. _____ Heated Purge: N Date Analyzed: 03/06/2004

GC Column: DB-624 ID: 0.53 (mm) Dilution Factor: 1.00

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
108-10-1	4-Methyl-2-pentanone	5.0	U
1634-04-4	Methyl tert butyl ether	1.0	U
100-42-5	Styrene	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-88-3	Toluene	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.32	J
75-69-4	Trichlorofluoromethane	1.0	U
79-01-6	Trichloroethene	1.0	U
75-01-4	Vinyl chloride	1.0	U
1330-20-7	Total Xylenes	3.0	U

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW03-015B-P5

Lab Name: STL Buffalo

Case No.:

SDG No.: 030401

Lab Sample ID : A4190802

Dates(s) Analyzed: 03/26/2004 03/26/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
gamma-BHC	1	12.99	12.90	13.00	0.022	
	2	12.95	12.90	13.00	0.064	190.9
delta-BHC	1	13.68	13.70	13.80	0.016	
	2	13.96	13.94	14.04	0.016	0.0
Endrin	1	18.78	18.72	18.82	0.120	
	2	18.56	18.51	18.61	0.175	46.2

5/28/04

FORM X PEST

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW03-015C-P7

Lab Name: STL Buffalo

Case No.: SDG No.: 030401

Lab Sample ID : A4190801 Dates(s) Analyzed: 03/23/2004 03/23/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
4,4'-DDT	1	19.79	19.78	19.88	0.100	
	2	19.73	19.68	19.78	0.029	71.0
Dieldrin	1	18.47	18.44	18.54	0.034	
	2	18.11	18.07	18.17	0.010	70.6
Endrin	1	19.05	19.00	19.10	0.290	
	2	18.82	18.77	18.87	0.228	21.4

5/28/04

FORM X PEST

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10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-016B-P4

Lab Name: STL Buffalo

Case No.:

SDG No.: 030401

Lab Sample ID : A4183003

Dates(s) Analyzed: 03/17/2004 03/17/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW		CONC.	%D
			FROM	TO		
beta-BHC	1	13.48	13.40	13.50	0.027	
	2	13.47	13.42	13.52	0.020	25.9

5/5/04

FORM X PEST

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10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-016C-P7

Lab Name: STL Buffalo

Case No.:

SDG No.: 030401

Lab Sample ID : A4182405

Dates(s) Analyzed: 03/20/2004 03/20/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
beta-BHC	1	13.50	13.44	13.54	0.023	
	2	13.45	13.40	13.50	0.017	26.1

5/5/04

FORM X PEST

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10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-016C-P8

Lab Name: STL Buffalo

Case No.:

SDG No.: 030401

Lab Sample ID : A4182406

Dates(s) Analyzed: 03/20/2004 03/20/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW		CONC.	%D
			FROM	TO		
beta-BHC	1	13.50	13.44	13.54	0.035	
	2	13.45	13.40	13.50	0.026	25.7

FORM X PEST

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-011A-P3L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 030401

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	10.79		50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	3501148.00		3274620.00		6.5		P
Lead	6.00	U	30.00	U			P
Magnesium	1219552.00		1126990.00		7.6		P
Potassium	162218.00		500000.00	U	100.0		P
Sodium	9473480.00		8449360.00		10.8	E	P

Comments: _____

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U R S Corporation

ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 030401

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/15/2004 End Date: 3/15/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	11:13								X						X				X			X				
STD 1	1.00	11:18								X						X				X			X				
STD 2	1.00	11:23								X						X				X			X				
STD 3	1.00	11:27								X						X				X			X				
STD 3 VER	1.00	11:32								X						X				X			X				
ICV	1.00	11:37								X						X				X			X				
ICB	1.00	11:42								X						X				X			X				
CRI	1.00	11:47								X						X				X			X				
ZZZZZZ	1.00	11:51																									
ICSA	1.00	12:04								X						X				X			X				
ICSAB	1.00	12:09								X						X				X			X				
CCV	1.00	12:15								X						X				X			X				
CCB	1.00	12:20								X						X				X			X				
ZZZZZZ	10.00	12:25																									
ZZZZZZ	1.00	12:30																									
ZZZZZZ	1.00	12:34																									
ZZZZZZ	1.00	12:39																									
ZZZZZZ	1.00	12:44																									
ZZZZZZ	1.00	12:49																									
ZZZZZZ	1.00	12:53																									
ZZZZZZ	1.00	12:58																									
ZZZZZZ	200.00	13:03																									
ZZZZZZ	1000.00	13:08																									
CCV	1.00	13:14								X						X				X			X				
CCB	1.00	13:19								X						X				X			X				
ZZZZZZ	200.00	13:23																									
ZZZZZZ	20.00	13:28																									
ZZZZZZ	10.00	13:33																									
ZZZZZZ	10.00	13:38																									
GW03-011A-P3	200.00	13:42								X						X				X			X				
GW03-011A-P3L	1000.00	13:47								X						X				X			X				
GW03-011A-P3A	200.00	13:52								X						X				X			X				
GW03-012A-P3	500.00	13:57								X						X				X			X				

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 030401

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/15/2004 End Date: 3/15/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-015B-P4	5.00	14:02																		X			X				
ZZZZZZ	1.00	14:12																									
CCV	1.00	14:18								X						X				X			X				
CCB	1.00	14:23								X						X				X			X				
ZZZZZZ	1.00	14:31																									
CCV	1.00	14:37								X						X				X			X				
CCB	1.00	14:42								X						X				X			X				
ZZZZZZ	1.00	14:47																									
ZZZZZZ	1.00	14:51																									
ZZZZZZ	5.00	14:56																									
ZZZZZZ	1.00	15:01																									
ZZZZZZ	1.00	15:06																									
ZZZZZZ	1.00	15:11																									
ZZZZZZ	1.00	15:15																									
ZZZZZZ	1.00	15:20																									
ZZZZZZ	100.00	15:25																									
ZZZZZZ	500.00	15:30																									
CCV	1.00	15:36								X						X				X			X				
CCB	1.00	15:40								X						X				X			X				
ZZZZZZ	100.00	15:45																									
ZZZZZZ	100.00	15:50																									
ZZZZZZ	5.00	15:55																									
ZZZZZZ	1.00	16:00																									
ZZZZZZ	1.00	16:04																									
ZZZZZZ	50.00	16:09																									
ZZZZZZ	50.00	16:14																									
ZZZZZZ	50.00	16:19																									
ZZZZZZ	50.00	16:23																									
ZZZZZZ	50.00	16:28																									
CCV	1.00	16:36								X						X				X			X				
CCB	1.00	16:40								X						X				X			X				
ZZZZZZ	5.00	16:45																									
ZZZZZZ	2.00	16:50																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 030401

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/15/2004 End Date: 3/15/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
GW03-015B-P5	5.00	16:55								X										X			X				
GW03-009A-P2	5.00	17:00								X																	
GW03-016A-P3	100.00	17:04								X										X			X				
ZZZZZZ	1.00	17:09																									
ZZZZZZ	1.00	17:14																									
ZZZZZZ	1.00	17:19																									
ZZZZZZ	1.00	17:23																									
ZZZZZZ	1.00	17:28																									
CCV	1.00	17:34								X						X				X			X				
CCB	1.00	17:39								X						X				X			X				
ZZZZZZ	5.00	17:44																									
ZZZZZZ	5.00	17:49																									
ZZZZZZ	5.00	17:53																									
ZZZZZZ	5.00	17:58																									
ZZZZZZ	1.00	18:03																									
ZZZZZZ	1.00	18:08																									
ZZZZZZ	1.00	18:13																									
ZZZZZZ	5.00	18:17																									
ZZZZZZ	1.00	18:22																									
ZZZZZZ	1.00	18:27																									
CCV	1.00	18:33							X						X				X			X					
CCB	1.00	18:38							X						X				X			X					
ZZZZZZ	1.00	18:43																									
ZZZZZZ	1.00	18:47																									
ZZZZZZ	1.00	18:52																									
ZZZZZZ	1.00	18:57																									
ZZZZZZ	1.00	19:02																									
ZZZZZZ	1.00	19:07																									
ZZZZZZ	1.00	19:11																									
CRI	1.00	19:19							X						X				X			X					
ICSA	1.00	19:23							X						X				X			X					
ICSAB	1.00	19:28							X						X				X			X					
CCV	1.00	19:33							X						X				X			X					

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030401

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/15/2004 End Date: 3/15/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCB	1.00	19:38								X						X				X			X				

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U R S Corporation
-2B-
CRDL STANDARD FOR AA AND ICP

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 030401

AA CRDL Standard Source: _____

ICP CRDL Standard Source: VHG

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	20.18	100.9	18.85	94.2
Cadmium				10.0	10.32	103.2	11.61	116.1
Calcium				5000.0	5113.67	102.3	5086.28	101.7
Lead				6.0	4.81	80.2	4.64	77.3
Magnesium				5000.0	5068.74	101.4	5044.27	100.9
Potassium				5000.0	5148.56	103.0	5111.68	102.2
Sodium				5000.0	5226.36	104.5	4947.55	99.0

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030401

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/13/2004 End Date: 3/13/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	00:38				X			X	X					X	X				X			X				
STD 1	1.00	00:42				X			X	X					X	X				X			X				
STD 2	1.00	00:47				X			X	X					X	X				X			X				
STD 3	1.00	00:52				X			X	X					X	X				X			X				
STD 3 VER	1.00	00:57				X			X	X					X	X				X			X				
ICV	1.00	01:02				X			X	X					X	X				X			X				
ICB	1.00	01:06				X			X	X					X	X				X			X				
CRI	1.00	01:11				X			X	X					X	X				X			X				
ICSA	1.00	01:16				X			X	X					X	X				X			X				
ICSAB	1.00	01:21				X			X	X					X	X				X			X				
CCV	1.00	01:27				X			X	X					X	X				X			X				
CCB	1.00	01:32				X			X	X					X	X				X			X				
Method Blank	1.00	01:36				X			X	X					X	X				X			X				
LFB	1.00	01:41				X			X	X					X	X				X			X				
ZZZZZZ	1.00	01:46																									
ZZZZZZ	5.00	01:51																									
ZZZZZZ	1.00	01:56																									
ZZZZZZ	1.00	02:00																									
ZZZZZZ	1.00	02:05																									
ZZZZZZ	1.00	02:10																									
ZZZZZZ	1.00	02:15																									
GW03-015C-P7	1.00	02:20				X			X	X					X	X				X			X				
CCV	1.00	02:26				X			X	X					X	X				X			X				
CCB	1.00	02:31				X			X	X					X	X				X			X				
GW03-015C-P7L	5.00	02:36				X			X	X					X	X				X			X				
GW03-015C-P7A	1.00	02:40				X			X	X					X	X				X			X				
GW03-015B-P5	1.00	02:45				X			X						X	X											
GW03-009A-P2	1.00	02:50				X			X						X	X				X			X				
GW03-016A-P3	1.00	02:55				X			X						X	X											
ZZZZZZ	1.00	03:00																									
ZZZZZZ	1.00	03:04																									
ZZZZZZ	1.00	03:09																									
ZZZZZZ	1.00	03:14																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030401

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/13/2004 End Date: 3/13/2004

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	03:19																									
CCV	1.00	03:25				X			X	X					X	X				X			X				
CCB	1.00	03:30				X			X	X					X	X				X			X				
ZZZZZZ	1.00	03:35																									
ZZZZZZ	1.00	03:39																									
ZZZZZZ	1.00	03:44																									
ZZZZZZ	5.00	03:49																									
ZZZZZZ	1.00	03:54																									
ZZZZZZ	1.00	03:59																									
ZZZZZZ	1.00	04:03																									
ZZZZZZ	1.00	04:08																									
ZZZZZZ	1.00	04:13																									
ZZZZZZ	1.00	04:18																									
CCV	1.00	04:24				X			X	X					X	X				X			X				
CCB	1.00	04:29				X			X	X					X	X				X			X				
ZZZZZZ	1.00	04:34																									
ZZZZZZ	1.00	04:38																									
ZZZZZZ	1.00	04:43																									
ZZZZZZ	1.00	04:48																									
ZZZZZZ	1.00	04:53																									
ZZZZZZ	1.00	04:58																									
ZZZZZZ	5.00	05:02																									
ZZZZZZ	1.00	05:07																									
ZZZZZZ	1.00	05:12																									
ZZZZZZ	1.00	05:17																									
CCV	1.00	05:23				X			X	X					X	X				X			X				
CCB	1.00	05:28				X			X	X					X	X				X			X				
ZZZZZZ	1.00	05:33																									
ZZZZZZ	1.00	05:37																									
ZZZZZZ	1.00	05:42																									
ZZZZZZ	5.00	05:47																									
ZZZZZZ	1.00	05:52																									
ZZZZZZ	1.00	05:57																									

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030401

Instrument ID Number: SUPERTRACE Method: P

Start Date: 3/13/2004 End Date: 3/13/2004

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	06:02																									
X CRI	1.00	06:08				X			X	X					X	X				X			X				
ICSA	1.00	06:12				X			X	X					X	X				X			X				
ICSAB	1.00	06:17				X			X	X					X	X				X			X				
CCV	1.00	06:23				X			X	X					X	X				X			X				
CCB	1.00	06:28				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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METHODS SUMMARY

Job#: A04-1956,A04-1969,A04-1970,A04-1977,A04-1980,A04-2008, A04-2017,A04-2018,A04-2026,A04-2051,A04-2088,A04-2093

STL Project#: NY3A9122
SDG#: 030902
Site Name: NEW YORK POWER AUTHORITY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8290 - TCL DIOXINS & FURANS	SW8463 8290
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Mercury - Total	SW8463 7470
Potassium - Total	SW8463 6010
Sodium - Total	SW8463 6010
Bicarbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0
E Coli	SM18 9221
Sulfate	MCAWW 300.0
Total Alkalinity	MCAWW 310.1
Total Bacteria Coliform	SM18 9222B
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2
Total Organic Carbon	MCAWW 415.1
Total Suspended Solids	MCAWW 160.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

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NON-CONFORMANCE SUMMARY

Job#: A04-1956,A04-1969,A04-1970,A04-1977,A04-1980,A04-2008, A04-2017,A04-2018,A04-2026,A04-2051,A04-2088,A04-2093

STL Project#: NY3A9122
SDG#: 030902
Site Name: NEW YORK POWER AUTHORITY

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-1956
Sample Cooler(s) were received at the following temperature(s); 7@2.0 °C
All samples were received in good condition.
A04-1969
Sample Cooler(s) were received at the following temperature(s); 7@2.0 °C
All samples were received in good condition.
A04-1970
Sample Cooler(s) were received at the following temperature(s); 7 @ 2.0 °C
All samples were received in good condition.
A04-1977
Sample Cooler(s) were received at the following temperature(s); 9@4.0 °C
All samples were received in good condition.
A04-1980
Sample Cooler(s) were received at the following temperature(s); 9@4.0 °C
All samples were received in good condition.
A04-2008
Sample Cooler(s) were received at the following temperature(s); 9@4.0 °C
All samples were received in good condition.
A04-2017
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.
A04-2018
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.

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A04-2026
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.
A04-2051
Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.
A04-2088
Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.
A04-2093
Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

GC/MS Volatile Data

Sample GW03-015A-P3 was preserved to a PH less than 2. All other volatile samples exhibited a pH of 7 at the time of analysis. The analysis was performed within 7 days of sampling, therefore there is no impact on data usability.

The values obtained for Benzene and Toluene on sample GW03-015A-P3 are inconsistent with historical trends. Reanalysis was performed and the values were confirmed. Only the result from the original analysis is provided in this data package.

Initial calibration standard curve A4I0000162-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 9.82%.

Initial calibration standard curve A4I0000154-1 exhibited the %RSD of the compound Bromoform as greater than 15%. However, the mean RSD of all compounds is 6.36%.

Initial calibration standard curve A4I0000153-1 exhibited the %RSD of the compounds Acetone, Chloroethane and Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 6.32%.

The analyte Methylene Chloride was detected in Method Blank VBLK42 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

The relative percent difference between the Matrix Spike and the Matrix Spike duplicate of sample GW03-005A-P1 exceeded STL quality control limits for the analyte Benzene. All individual spike recoveries and Matrix Spike Blank recoveries were compliant, so no corrective action is required.

125 ngs of spiking compounds were added to sample GW03-005A-P1 MS instead of the required 250 ngs.

The analyte Acetone was detected in the Trip Blank, sample TBA1-031004, at a level above the reporting limit. Acetone was not detected in any of the associated samples, therefore there is no impact on data usability.

GC/MS Semivolatile Data

Dioxins and Furans were subcontracted to STL Knoxville. All data is included in this report as Appendix A.

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Linear regression was used to calibrate analytes that were greater than 15% RSD in the initial calibration A4I0000139.

GC Extractable Data

For method 8081 and 8082, the extracts for several samples required treatment with Copper prior to analysis due to the presence of elemental Sulfur. This is indicated for field samples and the associated batch quality control extracts in the injection logbook and on the individual report Form-1. The raw run data for any untreated extracts has been included in the raw quality control section of the data package.

For method 8082, the associated calibration verification analyzed on 03/13/04 at 03:28 demonstrated an increased instrument response, >15% difference, for the surrogate Decachlorobiphenyl. The theoretical consequence of this would be a high bias in the calculated surrogate recoveries. The associated sample surrogate recoveries are well within the quality control limits. In the technical judgement of the laboratory, the sample data has not been impacted and no corrective action is required.

For method 8082, the recovery of surrogate Decachlorobiphenyl in sample GW03-005A-P2 is outside of established quality control limits. The recovery of surrogate Tetrachloro-m-xylene is within quality control limits; no corrective action is required.

Metals Data

The CCB, analyzed at 08:41, exhibited results above the detection limit for Sodium. However, the samples were bracketed by compliant CCB's, therefore, no corrective action was necessary.

The recovery of sample GW03-005A-P1 Matrix Spike exhibited results below the quality control limits for Sodium. The sample result is more than four times greater than the spike added. The LFB is acceptable.

The recovery of sample GW03-009A-P3 Post Spike exhibited results below the quality control limits for Calcium, Magnesium and Sodium. The recovery of sample GW03-005A-P1 Post Spike exhibited results below the quality control limits for Calcium. The Serial Duliution of sample GW03-009A-P3 exceeded quality control limits for Calcium, Magnesium and Sodium. However, the LFB was acceptable.

Sample GW03-015A-P3 was run at an intermediate dilution for Potassium, due to Sodium interference, therefore the Potassium result is possibly elevated.

Wet Chemistry Data

The value obtained for TOC on sample GW03-015A-P3 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

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reviewed 5/24/04

The values obtained for Total Hardness on samples GW03-009A-P3 and GW03-015A-P3 are inconsistent with historical trends. Reanalysis was performed and the values were confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for Bicarbonate and Total Alkalinity on sample GW03-015A-P3 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

Sample GW03-009A-P3 was originally analyzed for Alkalinity within the required holding time, however, the QC failed. Re-analysis was performed outside but within method HT holding time and the value obtained confirmed the original result. Both sets of data (ASP) are provided in this data package.

Total Plate Count, E. Coli and Total Coliform were subcontracted to ACTS Testing Laboratory. All data is included in this report as Appendix A.

The recovery of sample GW03-005A-P1 Matrix Spike exhibited results below the quality control limits for Chloride. However, the LCS was acceptable.

The recovery of sample GW03-005A-P1 Matrix Spike exhibited results below the quality control limits for Sulfate. However, the LCS was acceptable.

The value obtained for TDS on sample GW03-005A-P2 is inconsistent with historical trends. The value was confirmed by the conductivity ratio.

Revision Comments

For method 8081, sample GW03-005A-P2 surrogate retention times on channel A are shifted early and outside the daily relative windows, though channel B retention times are within daily windows. The sample data for channel A was reviewed for any potential positives that would be reflected by this shift, and confirm on channel B, and found none. In the technical judgement of the laboratory, the sample data has not been impacted and no corrective action is required.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000490

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030902

Lab File ID: K6808 BFB Injection Date: 03/10/2004

Instrument ID: I50K BFB Injection Time: 08:41

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.8		
75	30.0 - 60.0% of mass 95	38.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.4		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	78.1		
175	5.0 - 9.0% of mass 174	4.6	(5.9)	1
176	95.0 - 101.0% of mass 174	74.7	(95.6)	1
177	5.0 - 9.0% of mass 176	4.6	(6.1)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000618-1	K6809.RR	03/10/2004	09:15
2	MSB89	A4197006	K6811.RR	03/10/2004	10:53
3	VBLK89	A4197005	K6812.RR	03/10/2004	11:26
4	TBD1-030904	A4197003	K6826.RR	03/10/2004	19:22
5	GW03-015A-P3	A4197002	K6827.RR	03/10/2004	19:55
6	GW03-009A-P3	A4197001	K6828.RR	03/10/2004	20:29

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000618-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: K6809.RR Calibration Date: 03/10/2004 Time: 09:15

Intrument ID: I50K Init. Calib. Date(s): 03/08/2004 03/08/2004

Heated Purge (Y/N): N Init. Calib. Times: 08:30 11:24

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0170	0.0180	0.0100	-5.900	100.00
Benzene	1.0740	0.9692	0.0100	9.800	100.00
Bromodichloromethane	0.5550	0.5036	0.0100	9.300	100.00
Bromoform	0.4550	0.4400	0.1000	3.300	100.00
Bromomethane	0.4680	0.3897	0.0100	16.700	100.00
2-Butanone	0.0390	0.0385	0.0100	1.300	100.00
Methyl acetate	0.1080	0.1025	0.0100	5.100	100.00
Cyclohexane	0.5990	0.5453	0.0100	9.000	100.00
Methylcyclohexane	0.5300	0.4632	0.0100	12.600	100.00
Carbon Disulfide	0.9720	0.8308	0.0100	14.500	100.00
Carbon Tetrachloride	0.5150	0.4827	0.0100	6.300	100.00
Chlorobenzene	1.1270	1.0552	0.3000	6.400	100.00
Chloroethane	0.3060	0.2598	0.0100	15.100	100.00
Chloroform	0.6860	0.6117	0.0100	10.800	20.00
Chloromethane	0.3730	0.3221	0.1000	13.600	100.00
Dibromochloromethane	0.4620	0.4634	0.0100	-0.300	100.00
1,2-Dibromo-3-chloropropane	0.0890	0.0765	0.0100	14.000	100.00
1,2-Dibromoethane	0.3310	0.3165	0.0100	4.400	100.00
1,2-Dichlorobenzene	1.3820	1.2928	0.0100	6.400	100.00
1,3-Dichlorobenzene	1.8170	1.7145	0.0100	5.600	100.00
1,4-Dichlorobenzene	1.8070	1.6985	0.0100	6.000	100.00
Dichlorodifluoromethane	0.4270	0.2917	0.0100	31.700	100.00
1,1-Dichloroethane	0.7770	0.7072	0.1000	9.000	100.00
1,2-Dichloroethane	0.2560	0.2357	0.0100	7.900	100.00
1,1-Dichloroethene	0.3540	0.3351	0.0100	5.300	100.00
cis-1,2-Dichloroethene	0.4000	0.3604	0.0100	9.900	100.00
trans-1,2-Dichloroethene	0.3910	0.3702	0.0100	5.300	100.00
1,2-Dichloropropane	0.4110	0.3688	0.0100	10.300	20.00
cis-1,3-Dichloropropene	0.4900	0.4493	0.0100	8.300	100.00
trans-1,3-Dichloropropene	0.3990	0.3834	0.0100	3.900	100.00
Ethylbenzene	1.7210	1.5915	0.0100	7.500	20.00
2-Hexanone	0.1030	0.0953	0.0100	7.500	100.00
Isopropylbenzene	3.2910	3.0141	0.0100	8.400	100.00
Methylene chloride	0.3370	0.2907	0.0100	13.700	100.00
4-Methyl-2-pentanone	0.1680	0.1571	0.0100	6.500	100.00
Styrene	0.9930	0.9796	0.0100	1.300	100.00
1,1,2,2-Tetrachloroethane	0.6090	0.5302	0.3000	12.900	100.00
Tetrachloroethene	0.7190	0.7067	0.0100	1.700	100.00
Toluene	0.9070	0.8308	0.0100	8.400	20.00

4/29/04 TM

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000618-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: K6809.RR Calibration Date: 03/10/2004 Time: 09:15

Intrument ID: I50K Init. Calib. Date(s): 03/08/2004 03/08/2004

Heated Purge (Y/N): N Init. Calib. Times: 08:30 11:24

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.2710	1.1740	0.0100	7.600	100.00
1,1,1-Trichloroethane	0.5840	0.5295	0.0100	9.300	100.00
1,1,2-Trichloroethane	0.2450	0.2361	0.0100	3.600	100.00
Trichloroethene	0.4500	0.4016	0.0100	10.800	100.00
Trichlorofluoromethane	0.6950	0.5522	0.0100	20.500	100.00
Vinyl chloride	0.4260	0.3524	0.0100	17.300	20.00
Total Xylenes	0.6600	0.6410	0.0100	2.900	100.00
Methyl tert butyl ether	0.4290	0.3933	0.0100	8.300	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.6240	0.5374	0.0100	13.900	100.00
1,2-Dichloroethane-D4	0.2000	0.2011	0.0100	-0.600	100.00
Toluene-D8	1.1040	1.1478	0.0100	-4.000	100.00
p-Bromofluorobenzene	0.5320	0.5526	0.0100	-3.900	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000535

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030902

Lab File ID: K6869 BFB Injection Date: 03/12/2004

Instrument ID: I50K BFB Injection Time: 08:29

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.2		
75	30.0 - 60.0% of mass 95	38.5		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.2		
173	Less than 2.0% of mass 174	0.2	(0.2)	1
174	50 - 120 % of mass 95	82.5		
175	5.0 - 9.0% of mass 174	5.6	(6.8)	1
176	95.0 - 101.0% of mass 174	83.1	(100.7)	1
177	5.0 - 9.0% of mass 176	4.7	(5.7)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000691-1	K6870.RR	03/12/2004	09:03
2	MSB92	A4209304	K6871.RR	03/12/2004	09:55
3	VBLK92	A4209303	K6873.RR	03/12/2004	11:21
4	GW03-005A-P2	A4209301	K6886.RR	03/12/2004	18:44
5	TBC1-031104	A4209302	K6887.RR	03/12/2004	19:18

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000691-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: K6870.RR Calibration Date: 03/12/2004 Time: 09:03

Intrument ID: I50K Init. Calib. Date(s): 03/08/2004 03/08/2004

Heated Purge (Y/N): N Init. Calib. Times: 08:30 11:24

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0170	0.0203	0.0100	-19.400	100.00
Benzene	1.0740	1.0639	0.0100	0.900	100.00
Bromodichloromethane	0.5550	0.5474	0.0100	1.400	100.00
Bromoform	0.4550	0.4532	0.1000	0.400	100.00
Bromomethane	0.4680	0.3907	0.0100	16.500	100.00
2-Butanone	0.0390	0.0414	0.0100	-6.200	100.00
Methyl acetate	0.1080	0.1070	0.0100	0.900	100.00
Cyclohexane	0.5990	0.6315	0.0100	-5.400	100.00
Methylcyclohexane	0.5300	0.5129	0.0100	3.200	100.00
Carbon Disulfide	0.9720	0.9733	0.0100	-0.100	100.00
Carbon Tetrachloride	0.5150	0.5872	0.0100	-14.000	100.00
Chlorobenzene	1.1270	1.0513	0.3000	6.700	100.00
Chloroethane	0.3060	0.3052	0.0100	0.300	100.00
Chloroform	0.6860	0.7047	0.0100	-2.700	20.00
Chloromethane	0.3730	0.3983	0.1000	-6.800	100.00
Dibromochloromethane	0.4620	0.4586	0.0100	0.700	100.00
1,2-Dibromo-3-chloropropane	0.0890	0.0806	0.0100	9.400	100.00
1,2-Dibromoethane	0.3310	0.3077	0.0100	7.000	100.00
1,2-Dichlorobenzene	1.3820	1.4102	0.0100	-2.000	100.00
1,3-Dichlorobenzene	1.8170	1.7436	0.0100	4.000	100.00
1,4-Dichlorobenzene	1.8070	1.7812	0.0100	1.400	100.00
Dichlorodifluoromethane	0.4270	0.4258	0.0100	0.300	100.00
1,1-Dichloroethane	0.7770	0.8391	0.1000	-8.000	100.00
1,2-Dichloroethane	0.2560	0.2721	0.0100	-6.300	100.00
1,1-Dichloroethene	0.3540	0.3733	0.0100	-5.400	100.00
cis-1,2-Dichloroethene	0.4000	0.4006	0.0100	-0.200	100.00
trans-1,2-Dichloroethene	0.3910	0.4107	0.0100	-5.000	100.00
1,2-Dichloropropane	0.4110	0.4124	0.0100	-0.300	20.00
cis-1,3-Dichloropropene	0.4900	0.4812	0.0100	1.800	100.00
trans-1,3-Dichloropropene	0.3990	0.3806	0.0100	4.600	100.00
Ethylbenzene	1.7210	1.7167	0.0100	0.300	20.00
2-Hexanone	0.1030	0.0945	0.0100	8.200	100.00
Isopropylbenzene	3.2910	3.1200	0.0100	5.200	100.00
Methylene chloride	0.3370	0.3317	0.0100	1.600	100.00
4-Methyl-2-pentanone	0.1680	0.1537	0.0100	8.500	100.00
Styrene	0.9930	1.0094	0.0100	-1.600	100.00
1,1,2,2-Tetrachloroethane	0.6090	0.5338	0.3000	12.300	100.00
Tetrachloroethene	0.7190	0.7670	0.0100	-6.700	100.00
Toluene	0.9070	0.8594	0.0100	5.200	20.00

4/29/2004

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000691-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: K6870.RR Calibration Date: 03/12/2004 Time: 09:03

Intrument ID: I50K Init. Calib. Date(s): 03/08/2004 03/08/2004

Heated Purge (Y/N): N Init. Calib. Times: 08:30 11:24

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	1.2710	1.1894	0.0100	6.400	100.00
1,1,1-Trichloroethane	0.5840	0.6214	0.0100	-6.400	100.00
1,1,2-Trichloroethane	0.2450	0.2433	0.0100	0.700	100.00
Trichloroethene	0.4500	0.4502	0.0100	0.000	100.00
Trichlorofluoromethane	0.6950	0.7249	0.0100	-4.300	100.00
Vinyl chloride	0.4260	0.4188	0.0100	1.700	20.00
Total Xylenes	0.6600	0.6605	0.0100	-0.100	100.00
Methyl tert butyl ether	0.4290	0.4065	0.0100	5.200	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.6240	0.6478	0.0100	-3.800	100.00
1,2-Dichloroethane-D4	0.2000	0.2200	0.0100	-10.000	100.00
Toluene-D8	1.1040	1.0655	0.0100	3.500	100.00
p-Bromofluorobenzene	0.5320	0.5619	0.0100	-5.600	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000519

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030902

Lab File ID: N4798 BFB Injection Date: 03/11/2004

Instrument ID: HP5973N BFB Injection Time: 18:17

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.9		
75	30.0 - 60.0% of mass 95	52.8		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.7		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	77.0		
175	5.0 - 9.0% of mass 174	5.2	(6.7)	1
176	95.0 - 101.0% of mass 174	75.2	(97.6)	1
177	5.0 - 9.0% of mass 176	4.7	(6.2)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000676-1	N4799.RR	03/11/2004	18:32
2	MSB37	A4202605	N4801.RR	03/11/2004	19:35
3	VBLK37	A4202604	N4802.RR	03/11/2004	20:05
4	TBA1-031004	A4202603	N4804.RR	03/11/2004	21:06
5	GW03-005A-P1	A4202601	N4815.RR	03/12/2004	02:42
6	GW03-005A-P1 SD	A4202601SD	N4817.RR	03/12/2004	03:43
7	GW03-015A-P2	A4202602	N4818.RR	03/12/2004	04:13

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000676-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: N4799.RR Calibration Date: 03/11/2004 Time: 18:32

Intrument ID: HP5973N Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 22:08 23:38

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.3240	0.3324	0.1000	-2.600	100.00
Bromomethane	0.1220	0.0949	0.0100	22.200	100.00
Vinyl chloride	0.3040	0.3027	0.0100	0.400	20.00
Chloroethane	0.1510	0.1578	0.0100	-4.500	100.00
Methylene chloride	0.3480	0.3874	0.0100	-11.300	100.00
Acetone	0.0320	0.0285	0.0100	10.900	100.00
Carbon Disulfide	1.2710	1.0976	0.0100	13.600	100.00
1,1-Dichloroethene	0.3470	0.3796	0.0100	-9.400	100.00
1,1-Dichloroethane	0.7640	0.8827	0.1000	-15.500	100.00
cis-1,2-Dichloroethene	0.3940	0.4367	0.0100	-10.800	100.00
trans-1,2-Dichloroethene	0.3880	0.4327	0.0100	-11.500	100.00
Chloroform	0.6610	0.7731	0.0100	-17.000	20.00
1,2-Dichloroethane	0.3520	0.4208	0.0100	-19.500	100.00
2-Butanone	0.0500	0.0481	0.0100	3.800	100.00
1,1,1-Trichloroethane	0.6000	0.7101	0.0100	-18.400	100.00
Carbon Tetrachloride	0.5070	0.5937	0.0100	-17.100	100.00
Bromodichloromethane	0.3910	0.4444	0.0100	-13.600	100.00
1,2-Dichloropropane	0.3690	0.3968	0.0100	-7.500	20.00
cis-1,3-Dichloropropene	0.4860	0.5094	0.0100	-4.800	100.00
Trichloroethene	0.4110	0.4427	0.0100	-7.700	100.00
Dibromochloromethane	0.2170	0.2338	0.0100	-7.700	100.00
1,1,2-Trichloroethane	0.1810	0.1961	0.0100	-8.300	100.00
Benzene	1.6650	1.7905	0.0100	-7.500	100.00
trans-1,3-Dichloropropene	0.5770	0.5974	0.0100	-3.500	100.00
Bromoform	0.1880	0.1894	0.1000	-0.700	100.00
4-Methyl-2-pentanone	0.1310	0.1263	0.0100	3.600	100.00
2-Hexanone	0.0830	0.0834	0.0100	-0.500	100.00
Tetrachloroethene	0.4580	0.5232	0.0100	-14.200	100.00
1,1,2,2-Tetrachloroethane	0.4160	0.4275	0.3000	-2.800	100.00
Toluene	1.2320	1.3413	0.0100	-8.900	20.00
Chlorobenzene	1.1920	1.2901	0.3000	-8.200	100.00
Ethylbenzene	2.4190	2.7282	0.0100	-12.800	20.00
Styrene	1.2880	1.4663	0.0100	-13.800	100.00
Total Xylenes	0.8220	0.9435	0.0100	-14.800	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3510	0.3383	0.0100	3.600	100.00
1,2,4-Trichlorobenzene	1.2500	1.3530	0.0100	-8.200	100.00
1,2-Dibromo-3-chloropropane	0.0620	0.0644	0.0100	-3.900	100.00
1,2-Dibromoethane	0.1850	0.1905	0.0100	-3.000	100.00
1,2-Dichlorobenzene	1.5160	1.6881	0.0100	-11.400	100.00

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000676-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: N4799.RR Calibration Date: 03/11/2004 Time: 18:32

Intrument ID: HP5973N Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 22:08 23:38

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,3-Dichlorobenzene	1.8320	2.0985	0.0100	-14.500	100.00
1,4-Dichlorobenzene	1.8260	2.0451	0.0100	-12.000	100.00
Cyclohexane	0.7560	0.6520	0.0100	13.800	100.00
Dichlorodifluoromethane	0.4550	0.4110	0.0100	9.700	100.00
Methyl acetate	0.1120	0.1004	0.0100	10.400	100.00
Trichlorofluoromethane	0.4010	0.4493	0.0100	-12.000	100.00
Methyl tert butyl ether	0.4290	0.4107	0.0100	4.300	100.00
Isopropylbenzene	4.7760	5.1639	0.0100	-8.100	100.00
Methylcyclohexane	0.6920	0.5926	0.0100	14.400	100.00
Toluene-D8	1.4780	1.4486	0.0100	2.000	100.00
p-Bromofluorobenzene	0.3710	0.3683	0.0100	0.700	100.00
1,2-Dichloroethane-D4	0.2490	0.2645	0.0100	-6.200	100.00

FORM VII VOA

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000576

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030902

Lab File ID: N4924 BFB Injection Date: 03/16/2004

Instrument ID: HP5973N BFB Injection Time: 20:17

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	22.2		
75	30.0 - 60.0% of mass 95	51.2		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.0		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	68.9		
175	5.0 - 9.0% of mass 174	5.4	(7.9)	1
176	95.0 - 101.0% of mass 174	67.7	(98.3)	1
177	5.0 - 9.0% of mass 176	4.6	(6.8)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000736-1	N4925.RR	03/16/2004	20:51
2	MSB42	A4202607	N4927.RR	03/16/2004	22:08
3	VBLK42	A4202606	N4928.RR	03/16/2004	22:38
4	GW03-005A-P1 MS	A4202601MS	N4934.RR	03/17/2004	01:41

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000736-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: N4925.RR Calibration Date: 03/16/2004 Time: 20:51

Intrument ID: HP5973N Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 22:08 23:38

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.3240	0.4208	0.1000	-29.900	100.00
Bromomethane	0.1220	0.1396	0.0100	-14.400	100.00
Vinyl chloride	0.3040	0.3630	0.0100	-19.400	20.00
Chloroethane	0.1510	0.1798	0.0100	-19.100	100.00
Methylene chloride	0.3480	0.3550	0.0100	-2.000	100.00
Acetone	0.0320	0.0317	0.0100	0.900	100.00
Carbon Disulfide	1.2710	1.2666	0.0100	0.400	100.00
1,1-Dichloroethene	0.3470	0.3180	0.0100	8.400	100.00
1,1-Dichloroethane	0.7640	0.8263	0.1000	-8.200	100.00
cis-1,2-Dichloroethene	0.3940	0.4103	0.0100	-4.100	100.00
trans-1,2-Dichloroethene	0.3880	0.4200	0.0100	-8.200	100.00
Chloroform	0.6610	0.7226	0.0100	-9.300	20.00
1,2-Dichloroethane	0.3520	0.3872	0.0100	-10.000	100.00
2-Butanone	0.0500	0.0499	0.0100	0.200	100.00
1,1,1-Trichloroethane	0.6000	0.6849	0.0100	-14.200	100.00
Carbon Tetrachloride	0.5070	0.5655	0.0100	-11.500	100.00
Bromodichloromethane	0.3910	0.4083	0.0100	-4.400	100.00
1,2-Dichloropropane	0.3690	0.3708	0.0100	-0.500	20.00
cis-1,3-Dichloropropene	0.4860	0.4791	0.0100	1.400	100.00
Trichloroethene	0.4110	0.4335	0.0100	-5.500	100.00
Dibromochloromethane	0.2170	0.2159	0.0100	0.500	100.00
1,1,2-Trichloroethane	0.1810	0.1824	0.0100	-0.800	100.00
Benzene	1.6650	1.7169	0.0100	-3.100	100.00
trans-1,3-Dichloropropene	0.5770	0.5785	0.0100	-0.300	100.00
Bromoform	0.1880	0.1818	0.1000	3.300	100.00
4-Methyl-2-pentanone	0.1310	0.1351	0.0100	-3.100	100.00
2-Hexanone	0.0830	0.0867	0.0100	-4.400	100.00
Tetrachloroethene	0.4580	0.5183	0.0100	-13.200	100.00
1,1,2,2-Tetrachloroethane	0.4160	0.4126	0.3000	0.800	100.00
Toluene	1.2320	1.3340	0.0100	-8.300	20.00
Chlorobenzene	1.1920	1.2523	0.3000	-5.000	100.00
Ethylbenzene	2.4190	2.6536	0.0100	-9.700	20.00
Styrene	1.2880	1.3941	0.0100	-8.200	100.00
Total Xylenes	0.8220	0.8942	0.0100	-8.800	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3510	0.2614	0.0100	25.500	100.00
1,2,4-Trichlorobenzene	1.2500	1.3123	0.0100	-5.000	100.00
1,2-Dibromo-3-chloropropane	0.0620	0.0604	0.0100	2.600	100.00
1,2-Dibromoethane	0.1850	0.1831	0.0100	1.000	100.00
1,2-Dichlorobenzene	1.5160	1.6472	0.0100	-8.600	100.00

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000736-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: N4925.RR Calibration Date: 03/16/2004 Time: 20:51

Intrument ID: HP5973N Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 22:08 23:38

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,3-Dichlorobenzene	1.8320	2.0426	0.0100	-11.500	100.00
1,4-Dichlorobenzene	1.8260	1.9767	0.0100	-8.200	100.00
Cyclohexane	0.7560	0.7526	0.0100	0.500	100.00
Dichlorodifluoromethane	0.4550	0.5501	0.0100	-20.900	100.00
Methyl acetate	0.1120	0.1141	0.0100	-1.900	100.00
Trichlorofluoromethane	0.4010	0.5510	0.0100	-37.400	100.00
Methyl tert butyl ether	0.4290	0.4387	0.0100	-2.300	100.00
Isopropylbenzene	4.7760	5.2663	0.0100	-10.300	100.00
Methylcyclohexane	0.6920	0.6806	0.0100	1.600	100.00
Toluene-D8	1.4780	1.4514	0.0100	1.800	100.00
p-Bromofluorobenzene	0.3710	0.3651	0.0100	1.600	100.00
1,2-Dichloroethane-D4	0.2490	0.2509	0.0100	-0.800	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000501

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030902

Lab File ID: P3938 BFB Injection Date: 03/10/2004

Instrument ID: HP5973P BFB Injection Time: 19:57

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	24.4		
75	30.0 - 60.0% of mass 95	49.1		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.1		
173	Less than 2.0% of mass 174	0.4	(0.7)	1
174	50 - 120 % of mass 95	62.7		
175	5.0 - 9.0% of mass 174	4.3	(6.9)	1
176	95.0 - 101.0% of mass 174	60.9	(97.2)	1
177	5.0 - 9.0% of mass 176	3.2	(5.3)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000633-1	P3939.RR	03/10/2004	20:15
2	MSB64	A4197707	P3940.RR	03/10/2004	20:50
3	VBLK64	A4197706	P3941.RR	03/10/2004	21:26
4	TBA1-030904	A4197705	P3944.RR	03/10/2004	23:35
5	TBD2-030904	A4197704	P3945.RR	03/11/2004	00:10
6	GW03-015B-P6	A4197701	P3951.RR	03/11/2004	03:43
7	GW03-016B-P6	A4197702	P3952.RR	03/11/2004	04:18
8	RB-TUBING	A4197703	P3953.RR	03/11/2004	04:53

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000633-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: P3939.RR Calibration Date: 03/10/2004 Time: 20:15

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0480	0.0429	0.0100	10.600	100.00
Benzene	1.3350	1.3642	0.0100	-2.200	100.00
Bromodichloromethane	0.3950	0.3755	0.0100	4.900	100.00
Bromoform	0.2060	0.1609	0.1000	21.900	100.00
Bromomethane	0.0930	0.0578	0.0100	37.800	100.00
2-Butanone	0.0680	0.0562	0.0100	17.400	100.00
Methyl acetate	0.1560	0.1376	0.0100	11.800	100.00
Cyclohexane	0.7140	0.6615	0.0100	7.400	100.00
Methylcyclohexane	0.5590	0.5272	0.0100	5.700	100.00
Carbon Disulfide	1.1120	1.0766	0.0100	3.200	100.00
Carbon Tetrachloride	0.5240	0.5434	0.0100	-3.700	100.00
Chlorobenzene	1.0930	1.0380	0.3000	5.000	100.00
Chloroethane	0.1420	0.1614	0.0100	-13.700	100.00
Chloroform	0.6280	0.6479	0.0100	-3.200	20.00
Chloromethane	0.4240	0.4617	0.1000	-8.900	100.00
Dibromochloromethane	0.2430	0.2085	0.0100	14.200	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0541	0.0100	19.200	100.00
1,2-Dibromoethane	0.1880	0.1584	0.0100	15.700	100.00
1,2-Dichlorobenzene	1.3880	1.2592	0.0100	9.300	100.00
1,3-Dichlorobenzene	1.6650	1.5631	0.0100	6.100	100.00
1,4-Dichlorobenzene	1.6370	1.5031	0.0100	8.200	100.00
Dichlorodifluoromethane	0.4550	0.3592	0.0100	21.000	100.00
1,1-Dichloroethane	0.7700	0.8009	0.1000	-4.000	100.00
1,2-Dichloroethane	0.4030	0.4066	0.0100	-0.900	100.00
1,1-Dichloroethene	0.3170	0.3060	0.0100	3.500	100.00
cis-1,2-Dichloroethene	0.3490	0.3546	0.0100	-1.600	100.00
trans-1,2-Dichloroethene	0.3420	0.3622	0.0100	-5.900	100.00
1,2-Dichloropropane	0.3610	0.3497	0.0100	3.100	20.00
cis-1,3-Dichloropropene	0.4420	0.4017	0.0100	9.100	100.00
trans-1,3-Dichloropropene	0.4080	0.3750	0.0100	8.100	100.00
Ethylbenzene	1.9750	1.9637	0.0100	0.600	20.00
2-Hexanone	0.1110	0.0918	0.0100	17.300	100.00
Isopropylbenzene	3.7840	3.6489	0.0100	3.600	100.00
Methylene chloride	0.3390	0.3210	0.0100	5.300	100.00
4-Methyl-2-pentanone	0.1750	0.1421	0.0100	18.800	100.00
Styrene	1.1030	1.1186	0.0100	-1.400	100.00
1,1,2,2-Tetrachloroethane	0.4080	0.3341	0.3000	18.100	100.00
Tetrachloroethene	0.3800	0.3601	0.0100	5.200	100.00
Toluene	0.9980	0.9858	0.0100	1.200	20.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000633-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030902

Lab File Id: P3939.RR Calibration Date: 03/10/2004 Time: 20:15

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9570	0.8232	0.0100	14.000	100.00
1,1,1-Trichloroethane	0.5960	0.6113	0.0100	-2.600	100.00
1,1,2-Trichloroethane	0.1730	0.1535	0.0100	11.300	100.00
Trichloroethene	0.3550	0.3402	0.0100	4.200	100.00
Trichlorofluoromethane	0.3970	0.4661	0.0100	-17.400	100.00
Vinyl chloride	0.3220	0.3149	0.0100	2.200	20.00
Total Xylenes	0.6980	0.7024	0.0100	-0.600	100.00
Methyl tert butyl ether	0.4900	0.3773	0.0100	23.000	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3330	0.3421	0.0100	-2.700	100.00
1,2-Dichloroethane-D4	0.3040	0.3087	0.0100	-1.500	100.00
Toluene-D8	1.3410	1.4084	0.0100	-5.000	100.00
p-Bromofluorobenzene	0.3420	0.3411	0.0100	0.300	100.00

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10A

PESTICIDE IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-15B-P6

Lab Name: STL Buffalo

Case No.: SDG No.: 030902

Lab Sample ID : A4197701 Dates(s) Analyzed: 03/18/2004 03/18/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
gamma-BHC	1	13.17	13.08	13.18	0.038	42.1
	2	13.19	13.14	13.24	0.022	

5/5/04

FORM X PEST

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Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030902

GC Column(1): ZB-5 ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	GW03-005A-P1	102		74								0
2	GW03-005A-P1 MS	107		90								0
3	GW03-005A-P1 SD	106		88								0
4	GW03-005A-P2	20	*	48								1
5	GW03-009A-P3	93		82								0
6	GW03-015A-P2	43		52								0
7	GW03-015A-P3	38		74								0
8	GW03-015B-P6	30		76								0
9	GW03-016B-P6	70		78								0
10	Matrix Spike Blank	67		95								0
11	Matrix Spike Blank	90		81								0
12	Matrix Spike Blank	88		86								0
13	Matrix Spike Blank	66		86								0
14	Method Blank	70		71								0
15	Method Blank	92		89								0
16	Method Blank	90		71								0
17	Method Blank	71		92								0
18	RB-TUBING	84		85								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(28-132)
(TCMX) = Tetrachloro-m-xylene	(36-132)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

5/5/04 [illegible]

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-009A-P3L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 030902

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	13.85		50.00	U	100.0		P
Cadmium	0.21		5.00	U	100.0		P
Calcium	3363914.00		19584160.00		482.2	E	P
Lead	6.00	U	30.00	U			P
Magnesium	1597774.00		9359020.00		485.8	E	P
Potassium	157692.00		927680.00		488.3	E	P
Sodium	10997380.00		64746320.00		488.7	E	P

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030902

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 3/16/2004 End Date: 3/16/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	05:08				X			X	X					X	X				X			X				
STD 1	1.00	05:12				X			X	X					X	X				X			X				
STD 2	1.00	05:17				X			X	X					X	X				X			X				
STD 3	1.00	05:21				X			X	X					X	X				X			X				
STD 3 VER	1.00	05:25				X			X	X					X	X				X			X				
ICV	1.00	05:30				X			X	X					X	X				X			X				
ICB	1.00	05:34				X			X	X					X	X				X			X				
CRI	1.00	05:39				X			X	X					X	X				X			X				
ICSA	1.00	05:43				X			X	X					X	X				X			X				
ICSAB	1.00	05:47				X			X	X					X	X				X			X				
CCV	1.00	05:53				X			X	X					X	X				X			X				
CCB	1.00	05:58				X			X	X					X	X				X			X				
ZZZZZZ	5.00	06:02																									
ZZZZZZ	1.00	06:06																									
ZZZZZZ	1.00	06:11																									
Method Blank	1.00	06:15				X			X	X					X	X				X			X				
LFB	1.00	06:20				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:24																									
ZZZZZZ	5.00	06:29																									
ZZZZZZ	1.00	06:33																									
ZZZZZZ	1.00	06:37																									
ZZZZZZ	1.00	06:42																									
CCV	1.00	06:48				X			X	X					X	X				X			X				
CCB	1.00	06:52				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:56																									
ZZZZZZ	1.00	07:01																									
ZZZZZZ	1.00	07:05																									
ZZZZZZ	1.00	07:10																									
ZZZZZZ	1.00	07:14																									
ZZZZZZ	1.00	07:19																									
ZZZZZZ	1.00	07:23																									
ZZZZZZ	1.00	07:27																									
ZZZZZZ	1.00	07:32																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 030902

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 3/16/2004 End Date: 3/16/2004

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	07:36																									
CCV	1.00	07:42				X			X	X					X	X				X			X				
CCB	1.00	07:46				X			X	X					X	X				X			X				
ZZZZZZ	1.00	07:51																									
GW03-009A-P3	1.00	07:55				X			X						X												
GW03-009A-P3L	5.00	08:00				X			X						X												
GW03-009A-P3A	1.00	08:04				X			X						X												
GW03-015A-P3	1.00	08:09				X			X						X												
ZZZZZZ	1.00	08:13																									
ZZZZZZ	1.00	08:17																									
ZZZZZZ	1.00	08:22																									
ZZZZZZ	5.00	08:26																									
ZZZZZZ	1.00	08:31																									
CCV	1.00	08:37				X			X	X					X	X				X			X				
CCB	1.00	08:41				X			X	X					X	X				X			X				
ZZZZZZ	1.00	08:45																									
ZZZZZZ	1.00	08:50																									
ZZZZZZ	1.00	08:54																									
ZZZZZZ	1.00	08:59																									
ZZZZZZ	1.00	09:03																									
ZZZZZZ	1.00	09:07																									
ZZZZZZ	1.00	09:12																									
ZZZZZZ	5.00	09:16																									
ZZZZZZ	1.00	09:21																									
ZZZZZZ	1.00	09:25																									
CCV	1.00	09:31				X			X	X					X	X				X			X				
CCB	1.00	09:35				X			X	X					X	X				X			X				
ZZZZZZ	1.00	09:40																									
CCV	1.00	09:46				X			X	X					X	X				X			X				
CCB	1.00	09:50				X			X	X					X	X				X			X				
CRI	1.00	09:54				X			X	X					X	X				X			X				
ICSA	1.00	09:59				X			X	X					X	X				X			X				
ICSAB	1.00	10:03				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030902

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 3/16/2004 End Date: 3/16/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	10:09				X			X	X					X	X				X			X				
CCB	1.00	10:14				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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SDG: 030902
Client Sample ID: GW03-005A-P1 GW03-005A-P1 MS
Lab Sample ID: A4202601 A4202601MS

Analyte	Units of Measure	Concentration Sample	Concentration Matrix Spike	Spike Amount	% Recovery MS	QC LIMITS
WET CHEMISTRY ANALYSIS						
METHOD 300.0 - CHLORIDE	MG/L	45.04	79.51	50.00	69 *	73-114
METHOD 300.0 - SULFATE	MG/L	54.52	89.66	50.00	70 *	75-125
METHOD 415.1 - TOTAL ORGANIC CARBON	MG/L	0.634	16.02	20.00	77	54-131

5/10/04

3089/4858

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

STL Buffalo

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DATA USABILITY SUMMARY REPORT SURFACE WATER SAMPLING EVENT MARCH 2004

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. It should be noted that the data validation was limited primarily to a review of the chain-of-custody records, data package case narratives, and laboratory reporting forms. Raw analytical data and sample concentration calculations were only reviewed when deemed necessary (e.g., when the reported result was suspect or inconsistent with historical data).

2.0 ANALYTICAL METHODS

The data being evaluated are from the March 8-10, 2004 sampling of 11 surface water samples, one matrix spike/matrix spike duplicate (MS/MSD) pair, and five trip blanks. The analytical laboratory that performed the analyses is Severn Trent Laboratories, located in Amherst, New York (STL-Buffalo). The samples were analyzed for the following parameters:

- Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260B;
- TCL semivolatile organic compounds (SVOCs) by EPA Method 8270C;
- TCL pesticides by EPA Method 8081A;
- TCL polychlorinated biphenyls (PCBs) by EPA Method 8082;
- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) by EPA Method 8290;
- arsenic, cadmium, calcium, lead, magnesium, potassium, and sodium by EPA Method 6010B;
- mercury by EPA Method 7470A;
- total alkalinity and bicarbonate alkalinity by EPA Method 310.1;
- chloride and sulfate by EPA Method 300.0;
- total hardness by EPA Method 130.2;
- monomethyl mercury by EPA Method 1630, modified;

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- total dissolved solids (TDS) by EPA Method 160.1;
- total organic carbon (TOC) by EPA Method 415.1;
- total suspended solids (TSS) by EPA Method 160.2;
- heterotrophic plate count by Standard Method 9215B;
- total coliform by Standard Method 9222B;
- fecal coliform by Standard Method 9222D; and
- *E. coli* by Standard Method 9221.

The methods referenced are from: *Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846*, Final Update III, United States Environmental Protection Agency (USEPA), June 1997; *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, USEPA, Revised March 1983; *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, 1998; and Modified *Method 1630, Methyl Mercury in Water by Distillation, Aqueous Ethylation, Purge and Trap, and CVAFS*, USEPA, Draft, August 1998.

STL-Buffalo subcontracted monomethyl mercury analyses to Brooks Rand, LLC, located in Seattle, WA; 2,3,7,8-TCDD analyses to STL-Knoxville, located in Knoxville, TN; and heterotrophic plate count, total and fecal coliform, and *E. coli* analyses to MTL-ACTS, Bureau Veritas Consumer Products Services, Inc., located in Buffalo, NY (ACTS).

The data were reviewed for completeness with regard to deliverables, holding times, and compliance with the referenced methods. The data were qualified following the guidelines presented in USEPA Region II *CLP Organics Data Review and Preliminary Review*, March 2001; USEPA Region II *Evaluation of Metals Data for the CLP Program*, SOP HW-2, Revision 11, January 1992; and USEPA Region II *SOP for SW-846 Method 8290, Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994. Qualifications applied to the data include "J/UJ" (estimated concentration/estimated quantitation limit) and "R" (rejected). A summary of sample qualification is presented on Table 1. The validated analytical results are presented on Tables 2 and 3.

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Definitions of USEPA Region II data qualifiers are presented in Attachment A. Definitions of sample concentration units are presented in Attachment B. Documentation supporting qualification of data is presented in Attachment C. This report discusses only data qualified due to nonconformance with method and/or project requirements.

3.0 DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were in accordance with NYSDEC Analytical Services Protocol (ASP), June 2000, Category B requirements.

4.0 HOLDING TIMES

The pesticide fraction of sample SW03-001 was initially extracted and analyzed within contractual and USEPA Region II technical holding times. Because the laboratory suspected that the presence of endrin in this sample was the result of cross-contamination during sample extraction, the sample was re-extracted 11 days past the USEPA Region II technical holding time of seven days from collection. Endrin was not detected in the re-extracted sample analysis. The result for the endrin in sample SW03-001 reported on Table 2 was qualified "UJ" for the holding time exceedance.

5.0 NONCONFORMANCES

The following quality control (QC) nonconformances were noted during data review:

- Miscellaneous

The heterotrophic plate count result for samples SW03-008 was outside the countable range specified in the method. Because of the short holding times for these analyses, reanalysis of the sample was not possible. The detected result for heterotrophic plate count in this samples was qualified "J."

- Initial and Continuing Calibrations

The relative response factors (RRFs) for the VOCs acetone and/or bromomethane were below the USEPA Region II QC limit of 0.05 in one or more continuing calibration (CCAL) standards. The results for these compounds in the associated samples listed on Table 1 (all were non-detect) were qualified "R."

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The percent difference (%D) between the initial calibration (ICAL) average RRF and the RRF in one or more of the CCAL standards exceeded the USEPA Region II QC limit of 25% for the VOCs bromomethane, bromoform, and/or dichlorodifluoromethane. The results for these compounds in the associated samples listed on Table 1 (all were non-detect) were qualified "UJ."

- Matrix Duplicate Analyses

The relative percent difference (RPD) between the total and fecal coliform concentrations in sample SW03-002 and those in the matrix duplicate analysis of this sample exceeded 50%. Using professional judgment, the results for total and fecal coliform in sample SW03-002 were qualified "J." Because of the inherent variability with these analyses and the dynamic nature of the samples with regards to biological activity, the results for other samples were not qualified based on the matrix duplicate results.

- Analyte Identification

The pesticide endrin was detected in the initial analysis of samples SW03-001. Since this compound has not been detected at any surface water sampling location in the prior two rounds of sampling, and because a sample (from another client) with elevated concentrations of endrin was extracted the day before sample SW03-001 was extracted, the laboratory suspects that the presence of endrin in sample SW03-001 may have been due to cross-contamination during sample extraction. Because of this, the sample was re-extracted outside of holding time and reanalyzed. Endrin was not detected in the re-extracted sample. As previously discussed in Section 4.0, the non-detect result for endrin is reported on Table 2 and was qualified "UJ" for the holding time exceedance.

The %D between the concentration of 4,4'-DDT detected on the primary chromatographic column and that detected on the confirmation column exceeded

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25% in sample SW03-008. The detected result for 4,4'-DDT in this sample was qualified "J."

- Serial Dilutions

  The %D in concentration between sample SW03-006 and the serial dilution analysis performed on this sample exceeded 10% for calcium, magnesium, and sodium. The results for these analytes greater than 10 times the instrument detection limit (IDL) in the associated samples listed on Table 1 were qualified "J."

6.0 SAMPLE RESULTS AND REPORTING

All quantitation limits were reported in accordance with method requirements and were adjusted for sample size and dilution factors. The results for bis(2-ethylhexyl)phthalate and 4,4'-DDT in sample SW03-008, and for phenol in sample SW03-009, were qualified "J" by the laboratory indicating estimated concentrations below the quantitation limits. The result for monomethyl mercury in sample SW03-010 was qualified "B" by the laboratory, indicating an estimated concentration below the quantitation limits.

The container cap for the monomethyl mercury fraction of sample SW03-006 was broken upon receipt at the subcontracted laboratory. Because an air-tight secondary container (i.e., zip-lock bag) was used, the laboratory was instructed to proceed with the analysis using the volume that remained in the container (and not that which had leaked into the zip-lock bag). The non-detect result for monomethyl mercury in sample SW03-006 was qualified "UJ," and the reporting limit was elevated because of the reduced volume of sample available for analysis.

The result for total coliform in sample SW03-010 was reported as non-detect at an elevated reporting limit because of an overgrowth of bacteria in the examination dish. Fecal coliform and *E. coli* analyses both yielded positive results in this sample. Fecal coliform and *E. coli* are part of the total coliform family, therefore it is evident that total coliform is present in the sample at some concentration. However, no positive quantitative result can be reported below the reporting limit because the total coliform concentration could not be confirmed.

7.0 SUMMARY

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All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified "J/UJ"(estimated/estimated quantitation limit) are considered conditionally usable. Those results qualified "R" (rejected) are unusable. All other sample results are usable as reported.

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TABLE 1
SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
SW03-002, SW03-003, SW03-004, TBC1-030904, and Trip Blank (3/9/04)	VOC	CCAL RRF <0.05 for acetone and bromomethane.	Qualify non-detect results "R."
SW03-006, SW03-007, SW03-008, SW03-009, SW03-011, TBB1-030904, and TBC2-030904	VOC	CCAL RRF <0.05 for acetone.	Qualify non-detect results "R."
SW03-010	VOC	CCAL RRF <0.05 for bromomethane.	Qualify non-detect result "R."
SW03-001, SW03-005, SW03-006, SW03-007, SW03-008, SW03-009, SW03-011, TBC2-030804, TBB1-030904, and TBC2-030904	VOC	CCAL >25 %D for bromomethane.	Qualify non-detect results "UJ."
SW03-010	VOC	CCAL >25 %D for bromoform and dichlorodifluoromethane.	Qualify non-detect results "UJ."
SW03-001	Pesticides	Technical holding time exceedance for sample extraction.	Qualify non-detect result for endrin "UJ."
SW03-008	Pesticides	%D between column concentrations > 25% but < 70% for 4,4'-DDT.	Qualify detected result "J."
SW03-006	Monomethyl mercury	Container cap broken upon receipt at subcontracted laboratory/loss of sample volume.	Qualify non-detect result "UJ."
SW03-002, SW03-003, and SW03-004	Metals	Serial dilution %D > 10% for calcium, magnesium, and sodium.	Qualify detected results >10X IDL "J."
SW03-002	Total and fecal coliform	RPD between sample and matrix duplicate concentrations > 50%.	Qualify detected results "J."
SW03-008	Heterotrophic plate count	Results outside countable range specified in the method.	Qualify detected results "J."

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Sample ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/10/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	NA
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	NA
Acetone	UG/L	5.0 U	R	R	R	NA
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Sample ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/10/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Bromomethane	UG/L	1.0 UJ	R	R	R	NA
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	NA
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	NA
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Sample ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/10/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	10 U	10 U	NA
2,4,5-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	NA
2,4,6-Trichlorophenol	UG/L	10 U	10 U	10 U	10 U	NA
2,4-Dichlorophenol	UG/L	10 U	10 U	10 U	10 U	NA
2,4-Dimethylphenol	UG/L	10 U	10 U	10 U	10 U	NA
2,4-Dinitrophenol	UG/L	48 U	50 U	48 U	48 U	NA
2,4-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	NA
2,6-Dinitrotoluene	UG/L	10 U	10 U	10 U	10 U	NA
2-Chloronaphthalene	UG/L	10 U	10 U	10 U	10 U	NA
2-Chlorophenol	UG/L	10 U	10 U	10 U	10 U	NA
2-Methylnaphthalene	UG/L	10 U	10 U	10 U	10 U	NA
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	10 U	10 U	NA
2-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	NA
2-Nitrophenol	UG/L	10 U	10 U	10 U	10 U	NA
3,3-Dichlorobenzidine	UG/L	19 U	20 U	19 U	19 U	NA
3-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	NA
4,6-Dinitro-2-methylphenol	UG/L	48 U	50 U	48 U	48 U	NA
4-Bromophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	NA
4-Chloro-3-methylphenol	UG/L	10 U	10 U	10 U	10 U	NA
4-Chloroaniline	UG/L	10 U	10 U	10 U	10 U	NA

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Sample ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/10/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	10 U	10 U	NA
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	10 U	10 U	NA
4-Nitroaniline	UG/L	48 U	50 U	48 U	48 U	NA
4-Nitrophenol	UG/L	48 U	50 U	48 U	48 U	NA
Acenaphthene	UG/L	10 U	10 U	10 U	10 U	NA
Acenaphthylene	UG/L	10 U	10 U	10 U	10 U	NA
Acetophenone	UG/L	10 U	10 U	10 U	10 U	NA
Anthracene	UG/L	10 U	10 U	10 U	10 U	NA
Atrazine	UG/L	10 U	10 U	10 U	10 U	NA
Benzaldehyde	UG/L	48 U	50 U	48 U	48 U	NA
Benzo(a)anthracene	UG/L	10 U	10 U	10 U	10 U	NA
Benzo(a)pyrene	UG/L	10 U	10 U	10 U	10 U	NA
Benzo(b)fluoranthene	UG/L	10 U	10 U	10 U	10 U	NA
Benzo(g,h,i)perylene	UG/L	10 U	10 U	10 U	10 U	NA
Benzo(k)fluoranthene	UG/L	10 U	10 U	10 U	10 U	NA
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	10 U	10 U	NA
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	10 U	10 U	NA
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	10 U	10 U	NA
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	10 U	10 U	NA
Butylbenzylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Caprolactam	UG/L	10 U	10 U	10 U	10 U	NA
Carbazole	UG/L	10 U	10 U	10 U	10 U	NA
Chrysene	UG/L	10 U	10 U	10 U	10 U	NA

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Sample ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/10/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	10 U	10 U	NA
Dibenzofuran	UG/L	10 U	10 U	10 U	10 U	NA
Diethylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Dimethylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Di-n-butylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Di-n-octylphthalate	UG/L	10 U	10 U	10 U	10 U	NA
Fluoranthene	UG/L	10 U	10 U	10 U	10 U	NA
Fluorene	UG/L	10 U	10 U	10 U	10 U	NA
Hexachlorobenzene	UG/L	10 U	10 U	10 U	10 U	NA
Hexachlorobutadiene	UG/L	10 U	10 U	10 U	10 U	NA
Hexachlorocyclopentadiene	UG/L	23 U	24 U	23 U	23 U	NA
Hexachloroethane	UG/L	10 U	10 U	10 U	10 U	NA
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	10 U	10 U	NA
Isophorone	UG/L	10 U	10 U	10 U	10 U	NA
Naphthalene	UG/L	10 U	10 U	10 U	10 U	NA
Nitrobenzene	UG/L	10 U	10 U	10 U	10 U	NA
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	10 U	10 U	NA
N-Nitrosodiphenylamine	UG/L	10 U	10 U	10 U	10 U	NA
Pentachlorophenol	UG/L	48 U	50 U	48 U	48 U	NA
Phenanthrene	UG/L	10 U	10 U	10 U	10 U	NA
Phenol	UG/L	10 U	10 U	10 U	10 U	NA
Pyrene	UG/L	10 U	10 U	10 U	10 U	NA

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Sample ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/10/04
Parameter	**Units**					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endrin	UG/L	0.050 UJ	0.050 U	0.050 U	0.050 U	NA
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Endrin ketone	UG/L	0.068 U	0.072 U	0.072 U	0.069 U	NA
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	NA
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	NA

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Sample ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/10/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	NA
Aroclor 1232	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	NA
Aroclor 1242	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	NA
Aroclor 1248	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	NA
Aroclor 1254	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	NA
Aroclor 1260	UG/L	0.48 U	0.50 U	0.48 U	0.48 U	NA
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.2 U	1.4 U	1.3 U	1.6 U	NA
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	NA
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	NA
Calcium	UG/L	33,200	28,600 J	29,200 J	28,800 J	NA
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	NA
Magnesium	UG/L	12,100	10,000 J	10,800 J	10,400 J	NA
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	NA
Potassium	UG/L	2,750	2,360	2,050	2,090	NA
Sodium	UG/L	28,000	29,000 J	12,800 J	12,100 J	NA
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	75.3	71.5	85.6	83.0	NA
Alkalinity, Total (as CaCO3)	MG/L	75.3	71.5	85.6	83.0	NA
Chloride	MG/L	32.1	52.7	16.0	5.0	NA
Hardness	MG/L	136	111	124	115	NA
Monomethyl Mercury	NG/L	0.250	0.197	0.206	0.160	NA

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Sample ID		SW03-001	SW03-002	SW03-003	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/10/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	32.0	24.2	21.8	14.3	NA
Total Dissolved Solids	MG/L	201	226	211	143	NA
Total Organic Carbon (TOC)	MG/L	7.4	5.2	5.6	5.2	NA
Total Suspended Solids	MG/L	10.0	12.0	7.0	5.0	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	3200	930	830	NA	590
Total Coliform	C/100 ML	1600	540 J	320	NA	120
Fecal Coliform	C/100 ML	20 U	40 J	20 U	NA	20 U
E Coli	POS/NEG	NEG	POS	POS	NA	NEG

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Sample ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Sample ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Sample ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	9 U	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	9 U	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	48 U	47 U	49 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	9 U	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	9 U	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	9 U	10 U	10 U
2-Nitroaniline	UG/L	48 U	48 U	47 U	49 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	9 U	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U	19 U	20 U	19 U
3-Nitroaniline	UG/L	48 U	48 U	47 U	49 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	48 U	47 U	49 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	9 U	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	9 U	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	9 U	10 U	10 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Sample ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	9 U	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	9 U	10 U	10 U
4-Nitroaniline	UG/L	48 U	48 U	47 U	49 U	48 U
4-Nitrophenol	UG/L	48 U	48 U	47 U	49 U	48 U
Acenaphthene	UG/L	10 U	10 U	9 U	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	9 U	10 U	10 U
Acetophenone	UG/L	10 U	10 U	9 U	10 U	10 U
Anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Atrazine	UG/L	10 U	10 U	9 U	10 U	10 U
Benzaldehyde	UG/L	48 U	48 U	47 U	49 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	9 U	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	9 U	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	9 U	9 J	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Caprolactam	UG/L	10 U	10 U	9 U	10 U	10 U
Carbazole	UG/L	10 U	10 U	9 U	10 U	10 U
Chrysene	UG/L	10 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Sample ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	9 U	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	9 U	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	9 U	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	9 U	10 U	10 U
Fluorene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	9 U	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U	22 U	23 U	23 U
Hexachloroethane	UG/L	10 U	10 U	9 U	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	9 U	10 U	10 U
Isophorone	UG/L	10 U	10 U	9 U	10 U	10 U
Naphthalene	UG/L	10 U	10 U	9 U	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	9 U	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	9 U	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	9 U	10 U	10 U
Pentachlorophenol	UG/L	48 U	48 U	47 U	49 U	48 U
Phenanthrene	UG/L	10 U	10 U	9 U	10 U	10 U
Phenol	UG/L	10 U	10 U	9 U	10 U	1 J
Pyrene	UG/L	10 U	10 U	9 U	10 U	10 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Sample ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U	0.050 U	0.047 J	0.050 U
Aldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Endrin ketone	UG/L	0.068 U	0.069 U	0.068 U	0.070 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.47 U	0.48 U	0.50 U	0.48 U	0.50 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Sample ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.47 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1232	UG/L	0.47 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1242	UG/L	0.47 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1248	UG/L	0.47 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1254	UG/L	0.47 U	0.48 U	0.50 U	0.48 U	0.50 U
Aroclor 1260	UG/L	0.47 U	0.48 U	0.50 U	0.48 U	0.50 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	1.5 U	1.2 U	1.5 U	1.5 U	2.3 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	10.0 U	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Calcium	UG/L	43,500	35,300	34,200	33,800	36,100
Lead	UG/L	6.0 U	6.0 U	6.0 U	6.0 U	6.0 U
Magnesium	UG/L	16,000	8,530	8,440	8,490	8,690
Mercury	UG/L	0.200 U	0.200 U	0.200 U	0.200 U	0.200 U
Potassium	UG/L	3,100	2,010	1,670	1,540	1,900
Sodium	UG/L	26,600	16,900	12,000	10,500	14,600
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	99.9	92.4	94.4	93.1	94.8
Alkalinity, Total (as CaCO3)	MG/L	99.9	92.4	94.4	93.1	94.8
Chloride	MG/L	44.1	22.6	33.0	33.2	19.9
Hardness	MG/L	148	124	120	111	116
Monomethyl Mercury	NG/L	0.185	0.42 UJ	0.14 U	0.14 U	0.14 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Sample ID		SW03-005	SW03-006	SW03-007	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units					
Miscellaneous Parameters						
Sulfate (as SO4)	MG/L	36.4	27.7	27.1	29.4	25.1
Total Dissolved Solids	MG/L	273	169	160	144	159
Total Organic Carbon (TOC)	MG/L	5.8	1.8	1.6	1.3	1.6
Total Suspended Solids	MG/L	9.0	4.0 U	6.0	6.0	6.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	3500	970	350	21 J	390
Total Coliform	C/100 ML	2000	1000	430	20 U	1100
Fecal Coliform	C/100 ML	100	80	20 U	20 U	20
E Coli	POS/NEG	POS	POS	POS	NEG	POS

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-010	SW03-011
Sample ID		SW03-010	SW03-011
Matrix		Surface Water	Surface Water
Depth Interval (ft)		-	-
Date Sampled		03/09/04	03/09/04
Parameter	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U
Acetone	UG/L	5.0 U	R
Benzene	UG/L	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-010	SW03-011
Sample ID		SW03-010	SW03-011
Matrix		Surface Water	Surface Water
Depth Interval (ft)		-	-
Date Sampled		03/09/04	03/09/04
Parameter	Units		
Volatile Organic Compounds			
Bromoform	UG/L	1.0 UJ	1.0 U
Bromomethane	UG/L	R	1.0 UJ
Carbon Disulfide	UG/L	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 UJ	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-010	SW03-011
Sample ID		SW03-010	SW03-011
Matrix		Surface Water	Surface Water
Depth Interval (ft)		-	-
Date Sampled		03/09/04	03/09/04
Parameter	**Units**		
Volatile Organic Compounds			
Trichlorofluoromethane	UG/L	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U
Semivolatile Organic Compounds			
1,1-Biphenyl	UG/L	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U
2,4-Dinitrophenol	UG/L	49 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U
2-Nitroaniline	UG/L	49 U	48 U
2-Nitrophenol	UG/L	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	19 U
3-Nitroaniline	UG/L	49 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	49 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-010	SW03-011
Sample ID		SW03-010	SW03-011
Matrix		Surface Water	Surface Water
Depth Interval (ft)		-	-
Date Sampled		03/09/04	03/09/04
Parameter	Units		
Semivolatile Organic Compounds			
4-Chlorophenyl-phenylether	UG/L	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U
4-Nitroaniline	UG/L	49 U	48 U
4-Nitrophenol	UG/L	49 U	48 U
Acenaphthene	UG/L	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U
Acetophenone	UG/L	10 U	10 U
Anthracene	UG/L	10 U	10 U
Atrazine	UG/L	10 U	10 U
Benzaldehyde	UG/L	49 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U
Caprolactam	UG/L	10 U	10 U
Carbazole	UG/L	10 U	10 U
Chrysene	UG/L	10 U	10 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-010	SW03-011
Sample ID		SW03-010	SW03-011
Matrix		Surface Water	Surface Water
Depth Interval (ft)		-	-
Date Sampled		03/09/04	03/09/04
Parameter	Units		
Semivolatile Organic Compounds			
Dibenz(a,h)anthracene	UG/L	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U
Fluoranthene	UG/L	10 U	10 U
Fluorene	UG/L	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U
Hexachloroethane	UG/L	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U
Isophorone	UG/L	10 U	10 U
Naphthalene	UG/L	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U
Pentachlorophenol	UG/L	49 U	48 U
Phenanthrene	UG/L	10 U	10 U
Phenol	UG/L	10 U	10 U
Pyrene	UG/L	10 U	10 U

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-010	SW03-011
Sample ID		SW03-010	SW03-011
Matrix		Surface Water	Surface Water
Depth Interval (ft)		-	-
Date Sampled		03/09/04	03/09/04
Parameter	Units		
Pesticides			
4,4-DDD	UG/L	0.050 U	0.050 U
4,4-DDE	UG/L	0.050 U	0.050 U
4,4-DDT	UG/L	0.050 U	0.050 U
Aldrin	UG/L	0.050 U	0.050 U
alpha-BHC	UG/L	0.050 U	0.050 U
alpha-Chlordane	UG/L	0.050 U	0.050 U
beta-BHC	UG/L	0.050 U	0.050 U
delta-BHC	UG/L	0.050 U	0.050 U
Dieldrin	UG/L	0.050 U	0.050 U
Endosulfan I	UG/L	0.050 U	0.050 U
Endosulfan II	UG/L	0.050 U	0.050 U
Endosulfan sulfate	UG/L	0.050 U	0.050 U
Endrin	UG/L	0.050 U	0.050 U
Endrin aldehyde	UG/L	0.050 U	0.050 U
Endrin ketone	UG/L	0.070 U	0.069 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.050 U
gamma-Chlordane	UG/L	0.050 U	0.050 U
Heptachlor	UG/L	0.050 U	0.050 U
Heptachlor epoxide	UG/L	0.050 U	0.050 U
Methoxychlor	UG/L	0.050 U	0.050 U
Toxaphene	UG/L	1.0 U	1.0 U
Polychlorinated Biphenyls			
Aroclor 1016	UG/L	0.49 U	0.48 U

Flags assigned during chemistry validation are shown.

Made By_JJL 5/26/04_
Checked By_AMK 5/27/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-010	SW03-011
Sample ID		SW03-010	SW03-011
Matrix		Surface Water	Surface Water
Depth Interval (ft)		-	-
Date Sampled		03/09/04	03/09/04
Parameter	**Units**		
Polychlorinated Biphenyls			
Aroclor 1221	UG/L	0.49 U	0.48 U
Aroclor 1232	UG/L	0.49 U	0.48 U
Aroclor 1242	UG/L	0.49 U	0.48 U
Aroclor 1248	UG/L	0.49 U	0.48 U
Aroclor 1254	UG/L	0.49 U	0.48 U
Aroclor 1260	UG/L	0.49 U	0.48 U
Dioxins & Furans			
2,3,7,8-TCDD	PG/L	1.3 U	1.2 U
Metals			
Arsenic	UG/L	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U
Calcium	UG/L	43,500	36,000
Lead	UG/L	6.0 U	6.0 U
Magnesium	UG/L	9,680	8,750
Mercury	UG/L	0.200 U	0.200 U
Potassium	UG/L	3,010	1,820
Sodium	UG/L	26,900	17,000
Miscellaneous Parameters			
Alkalinity, Bicarbonate (as CaCO3)	MG/L	100	95.8
Alkalinity, Total (as CaCO3)	MG/L	100	95.8
Chloride	MG/L	50.3	24.4
Hardness	MG/L	132	120
Monomethyl Mercury	NG/L	0.090 B	0.14 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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TABLE 2
VALIDATED SURFACE WATER SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		SW03-010	SW03-011
Sample ID		SW03-010	SW03-011
Matrix		Surface Water	Surface Water
Depth Interval (ft)		-	-
Date Sampled		03/09/04	03/09/04
Parameter	Units		
Miscellaneous Parameters			
Sulfate (as SO4)	MG/L	36.5	26.2
Total Dissolved Solids	MG/L	233	176
Total Organic Carbon (TOC)	MG/L	3.0	1.7
Total Suspended Solids	MG/L	36.0	4.0
Bacterial and Microbial Parameters			
Heterotrophic Plate Count	CFU/ML	2100	370
Total Coliform	C/100 ML	2,000 U	1100
Fecal Coliform	C/100 ML	40	20 U
E Coli	POS/NEG	POS	POS

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[MATRIX] = 'WS' AND [tblRES].[SACODE] = 'N'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC2-030804	TBB1-030904	TBC1-030904	TBC2-030904	TRIP BLANK
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units	Trip Blank (5-5)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (3-3)
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	5.0 U	R	R	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_JJL 5/26/04_
Checked By_AMK 5/27/04_

Detection Limits shown are PQL

Printed: 5/28/2004 10:14:36 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[SACODE] = 'TB'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC2-030804	TBB1-030904	TBC1-030904	TBC2-030904	TRIP BLANK
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	**Units**	Trip Blank (5-5)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (3-3)
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	R	1.0 UJ	R
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_JJL 5/26/04_
Checked By_AMK 5/27/04_

Detection Limits shown are PQL

Printed: 5/28/2004 10:14:38 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[SACODE] = 'TB'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
MARCH 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TBC2-030804	TBB1-030904	TBC1-030904	TBC2-030904	TRIP BLANK
Matrix		Quality Control	Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	03/09/04	03/09/04	03/09/04	03/09/04
Parameter	Units	Trip Blank (5-5)	Trip Blank (5-5)	Trip Blank (2-2)	Trip Blank (4-4)	Trip Blank (3-3)
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_JJL 5/26/04_
Checked By_AMK 5/27/04_

Detection Limits shown are PQL

Printed: 5/28/2004 10:14:41 AM
[tblRES].[SITEID] = 'SURFACE WATER' AND [tblRES].[LOGDATE] BETWEEN #2/24/2004# AND #3/11/2004# AND [tblRES].[SACODE] = 'TB'

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ATTACHMENT A
DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT B
DEFINITIONS OF SAMPLE CONCENTRATION UNITS

PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.
POS/NEG	The sample tested positive or negative for this parameter.

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ATTACHMENT C
DOCUMENTATION SUPPORTING QUALIFICATION OF DATA

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA SW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban, G. Kisluk

LAB STL-Buffalo

COOLER 1, 2 of 2

PAGE 2 of 2

DELIVERY SERVICE: Drop off AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	Hardness 8oz HDPE HNO_3	Total Alkalinity 8oz HDPE	Total Coliform, Fecal Coliform 8oz HDPE $Na_2S_2O_3$	Total Hot Alkalinity 8oz HDPE $Na_2S_2O_3$	2-Cl, monomethyl mercury 8oz glass zero headspace				REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-001	3-8-04	1450	G	SW03-001	WS	—	1	1	1	1	1					N1	—	—	—
SW03-005	↓	1530	G	SW03-005	WS	—	1	1	1	1	1					N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/9/04	0623			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/9/2004	0623

SPECIAL INSTRUCTIONS: Shipment = 2 coolers @ 3°C, 3°C. (Both on ice).

KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

275/3455

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA SW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kislak, T. Urban

LAB STL - Buffalo

COOLER 1, 2 of 2

PAGE 1 of 2

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS: TCL VOA; TOC; TCL SVOA; TCL PESTICIDES; TCL PCBs; 2,3,7,8-TCDD; Total Metals + Hg; TSS, TDS, Cl, SO4

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1L Amber glass; →; 1L 02 HDPE HNO3; 1L 02 HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L Amber glass				1L 02 HDPE HNO3	1L 02 HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-001	3-8-04	1450	G	SW03-001	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-005	↓	1530	G	SW03-005	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	↓	—	—	TBC2-030804	WQ	1	1	—	—	—	—	—	—	—		TB1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/9/04	0623			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/9/2004	0623

SPECIAL INSTRUCTIONS: SHIPMENT = 2 COOLERS @ 3°C, 3°C. (BOTH ON ICE). KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

276/3455

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00000

SITE NAME NIPA GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Bromcier / R. Pekarski, S. McCabe / G. Kidak, J. Drew / J. Tivizen

LAB STL - Buffalo

COOLER 1,2,3,4,5,6 of

PAGE 1 of 2

DELIVERY SERVICE: STL Pick-up AIRBILL NO.: —

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; 2,3,7,8-TCDD; Total Metals (inc. Hg); TSS TDS SO4 Cl

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1L amber glass; →; →; →; 16 oz H2O2 HNO3; 16 oz H2O2

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L amber glass	→	→	→	16 oz H2O2 HNO3	16 oz H2O2	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-004	3/9/04	0900	G	SW03-004	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-003	3/9/04	1000	↓	SW03-003	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-002	↓	1015	↓	SW03-002	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	↓	—	—	TB01-030904	WQ	1	1	—	—	—	—	—	—	—		TB1	—	—	—
SW03-002	↓	1015	G	SW03-002 MS	WS	19	3	2	2	2	1	2	1	1		MS1	—	—	—
↓	↓	↓	↓	SW03-002MSD	WS	18	3	2	2	2	1	2	1	1		SD1	—	—	—
SW03-009A-P3	↓	1030	↓	SW03-009A-P3	WG	19	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	↓	—	—	TB01-030904	WQ	1	1	—	—	—	—	—	—	—		TB2	—	—	—
SW03-015A-P3	↓	0845	G	GW03-015A-P3	WG	14	3	2	2	—	1	—	1	1		N1	—	—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/9/04	1355	[signature] STL	3-9-04	13:55
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

70 2.0°C

URSF-075C/1 OF 1/CofCR/GCM

277/3455

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171938.0000G

SITE NAME NYPA GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Bormeier/R. Pekowski. G Kisiel/S. McCabe J. Deer/S. Tivnan

LAB STL-Buffalo

COOLER 1,2,3,4,5,6 of

PAGE 2 of 2

DELIVERY SERVICE: STL-Courier AIRBILL NO.:

TESTS: Total Hardness; Alkalinity total + bicarb; Total Coliform + ecoli; Total Met Plate Ct; Fecal Coliform; Monomethyl mercury

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE HNO3; 8oz HDPE; 8oz HDPE NaOH; 8oz HDPE NaS2O3; 8oz Glass zero headspace

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz HDPE HNO3	8oz HDPE	8oz HDPE NaOH	8oz HDPE NaS2O3	→	8oz Glass zero headspace			REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-004	3/9/04	0900	G	SW03-004	WS	-	1	1	1	1	→	1				N1	-	-	-
SW03-003	↓	1000	↓	SW03-003	WS	-	1	1	1	1	→	1				N1	-	-	-
SW03-002	↓	1045	↓	SW03-002	WS	-	1	1	1	1	→	1				N1	-	-	-
↓	↓	↓	↓	" " MS	WS	-	1	1	1	1	→	1				MS	-	-	-
↓	↓	↓	↓	" " MSD	WS	-	1	1	1	1	→				SD1	~~N1~~	-	-	-
GW03-009A-P3	↓	1030	↓	GW03-009A-P3	WG	-	1	1	1	1	-	1				N1	-	-	-
GW03-05A-P3	↓	0845	G	GW03-05A P3	WG	-	1	1	1	1	-					N1			

MATRIX CODES						
	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES			
	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/9/04	1355	[signature] STL	3-09-04	1355
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: One extra bottle for monomethyl mercury MS/MSD for SW03-002 fecal coliform only on surface waters.

Distribution: Original accompanies shipment, copy to coordinator field files

702.0°C

URSF-075C/1 OF 1/CofCR/GCM

278/3455

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Kisiuk / S. McCabe T. Bormeier / R. Polanski J. Doerr / B. Tinsen M. Nemeth / D. Schofield

LAB SIL-Buffalo

COOLER 1789 of 8 9

PAGE 1 of 2

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS: TCL VOCs; TOC; TCL SVOCs; TCL Pesticides; TCL PCBs; 2,3,7,8-TCDD; Total Metals + Hg; TDS, TSS, Cl⁻, SO₄

BOTTLE TYPE AND PRESERVATIVE: 40 mL VOA; 40 mL VOA HCl; 1L Amber glass; →; 16 oz HDPE HNO₃; 16 oz HDPE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	40 mL VOA	40 mL VOA HCl	1L Amber glass				16 oz HDPE HNO₃	16 oz HDPE	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-006	3/9/04	1300	G	SW03-006	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-007	↓	1430	↓	SW03-007	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-011	↓	1345	↓	SW03-011	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	↓	—	—	TBC2-030904	WQ	1	1	—	—	—	—	—	—	—		TB1	—	—	—
SW03-008	↓	1430	G	SW03-008	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-009	↓	1330	↓	SW03-009	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
SW03-010	↓	1300	↓	SW03-010	WS	19	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	3/9/04	—	—	TBB1-030904	WQ	1	1									TB2	—	—	—
GW03-015B-P6	3/9/04	1530	G	GW03-015B-P6	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
Field QC	↓	—	—	TBD2-030904	WQ	1	1	—	—	—	—	—	—	—		TB3	—	—	
Field QC	↓	1600	G	RB-Tubing	WQ	19	3	2	2	2	1	2	1	1		RB1	—	—	—
GW03-016B-P6	3/9/04	1645	G	GW03-016B-P6	WG	18	3	2	2	2	1	2	1	1		N1			
Field QC	3/9/04	—	G	TBA1-030904	WQ	1	1									TB4	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/10/04	0635			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/10/2004	0635

SPECIAL INSTRUCTIONS
SHIPMENT = 9 COOLERS @ 4°C, 4°C, 3°C, 3°C, 2°C, 4°C, 5°C, 4°C, 3°C. (ALL PACKED WITH ICE) KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

279/3455

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Hitchcock/S. McCabe T. Bonnauer/P. Pikarski D. Cofield/M. Nemeth J. Deerks/T. Trovato

LAB SRL - Buffalo

COOLER 1 of 9

PAGE 2 of 2

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS: Alkalinity Total + Bicarb. | Total Hardness | Total Coliform & E. coli | Total Het. Plate Ct. | Fecal Coliform | Monomethyl Mercury

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE | 8oz HDPE HNO_3 | 8oz HDPE $NaOH$ | 8oz HDPE $NaOH$ → | 8oz glass zero headspace

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	8oz HDPE HNO_3	8oz HDPE $NaOH$	8oz HDPE $NaOH$ →		8oz glass zero headspace			REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
SW03-006	3/9/04	1300	G	SW03-006	WS	19	1	1	1	1	→	1				N1	—	—	—
SW03-011	↓	1345	↓	SW03-~~007~~ 011	WS	✓	1	1	1	1	→	1				N1	—	—	—
SW03-007	↓	1430	↓	SW03-~~011~~ 007	WS	✓	1	1	1	1	→	1				N1	—	—	—
SW03-008	↓	1430	↓	SW03-008	WS	✓	1	1	1	1	→	1				N1	—	—	—
SW03-009	↓	1330	↓	SW03-009	WS	✓	1	1	1	1	→	1				N1	—	—	—
SW03-010	↓	1300	↓	SW03-010	WS	✓	1	1	1	1	→	1				N1	—	—	—
GW03-015B-P6	3/9/04	1530	G	GW03-015B-P6	WG	—	1	1	1	1	—	—	—	—		N1	—	—	—
				~~TB01-030904~~ MW	WQ														
Field QC	3/9/04	1600	G	RB-Tubing	WQ	—	1	1	1	1	—	1	—	—		RB1	—	—	—
GW03-016B-P6	3/9/04	1645	G	GW03-016B-P6	WG	—	1	1	1	1	—	—	—	—		N1	—	—	—

MATRIX CODES						
	AA - AMBIENT AIR	SL - SLUDGE	WG - GROUND WATER	WL - LEACHATE	WO - OCEAN WATER	LH - HAZARDOUS LIQUID WASTE
	SE - SEDIMENT	WP - DRINKING WATER	SO - SOIL	GS - SOIL GAS	WS - SURFACE WATER	LF - FLOATING/FREE PRODUCT ON GW TABLE
	SH - HAZARDOUS SOLID WASTE	WW - WASTE WATER	DC - DRILL CUTTINGS	WC - DRILLING WATER	WQ - WATER FIELD QC	

SAMPLE TYPE CODES			
	TB# - TRIP BLANK	RB# - RINSE BLANK	N# - NORMAL ENVIRONMENTAL SAMPLE
	SD# - MATRIX SPIKE DUPLICATE	FR# - FIELD REPLICATE	MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
[signature]	3/10/04	0635			
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**
			[signature]	3/10/2004	0635

SPECIAL INSTRUCTIONS Fecal Coliform on surface waters only.
SHIPMENT = 9 COOLERS @ 4°C, 4°C, 3°C, 3°C, 2°C, 4°C, 5°C, 4°C, 3°C.
(ALL PACKED WITH ICE) KEK

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

280/3455

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME N/A GW/SW Investigation

SAMPLERS (PRINT/SIGNATURE) G. Noble, S. Mahoney, S. Travis, R. Marek, J. Dott

LAB STL Buffalo

COOLER 1 of 4

PAGE 1 of 1

DELIVERY SERVICE: Drop-off AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	TCL VOCs (40 mL VOA)	TOC (40 mL VOA HCl)	TCL Pesticides, TCL SVOCs, TCL PCBs (1L Amber glass)	2,3,7,8-TCDD (1L Amber glass)	Metals + Hg (16oz HDPE HNO3)	Total Hardness (8 oz HDPE HNO3)	TSS, TDS, Cl, SO4 (16 oz HDPE)	Alkalinity, Total Phenols (8 oz HDPE)	Mercury (8oz Glass Jar Hexane)	Total Cyanide (2oz HDPE NaOH)	Total Coliform, Fecal Coliform, Heterotrophic Plate Count, Total Coliform-E. coli (8 oz HDPE Na2S2O3)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-005A-P1	3-10-04	1130	G	GW03-005A-P1	WG	19	3	2	5	2	1	1	1	1	1	1	2		N1	—	—	—
↓	↓	↓	↓	↓ MS	↓	19	3	2	5	2	1	1	1	1	1	1	2		MS1	—	—	—
↓	↓	↓	↓	↓ MSD	↓	19	3	2	5	2	1	1	1	1	1	1	2		SD1	—	—	—
GW03-015A-P2	↓	0845	G	GW03-015A-P2	WG	18	3	2	5	2	1	1	1	1	1	1	2		N1	—	—	—
Field QC	↓	—	—	TB01-031004	WQ	1	1	—	—	—	—	—	—	—	—	—	1		TB1	—	—	—
GW03-004	↓	0830	G	GW03-004	WS	2	—	—	—	—	—	—	—	—	—	1	1		N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
	3-10-04	1455		03/10/04	1455
RELINQUISHED BY (SIGNATURE)	**DATE**	**TIME**	**RECEIVED FOR LAB BY (SIGNATURE)**	**DATE**	**TIME**

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF1/CofCR/GCM

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SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	SAMPLED DATE	SAMPLED TIME	RECEIVED DATE	RECEIVED TIME
A4191201	SW03-001	03/08/2004	14:50	03/09/2004	06:23
A4191301	SW03-001	03/08/2004	14:50	03/09/2004	06:23
A4191401	SW03-001	03/08/2004	14:50	03/09/2004	06:23
A4195503	SW03-002	03/09/2004	10:45	03/09/2004	13:55
A4196803	SW03-002	03/09/2004	10:45	03/09/2004	13:55
A4197203	SW03-002	03/09/2004	10:45	03/09/2004	13:55
A4197203MD	SW03-002	03/09/2004	10:45	03/09/2004	13:55
A4197203MS	SW03-002	03/09/2004	10:45	03/09/2004	13:55
A4197203SD	SW03-002	03/09/2004	10:45	03/09/2004	13:55
A4195503MD	SW03-002 MD	03/09/2004	10:45	03/09/2004	13:55
A4196803MS	SW03-002 MS	03/09/2004	10:45	03/09/2004	13:55
A4196803SD	SW03-002 SD	03/09/2004	10:45	03/09/2004	13:55
A4195502	SW03-003	03/09/2004	10:00	03/09/2004	13:55
A4196802	SW03-003	03/09/2004	10:00	03/09/2004	13:55
A4197202	SW03-003	03/09/2004	10:00	03/09/2004	13:55
A4196801	SW03-004	03/09/2004	09:00	03/09/2004	13:55
A4197201	SW03-004	03/09/2004	09:00	03/09/2004	13:55
A4201601	SW03-004	03/10/2004	08:30	03/10/2004	14:55
A4191202	SW03-005	03/08/2004	15:30	03/09/2004	06:23
A4191302	SW03-005	03/08/2004	15:30	03/09/2004	06:23
A4191402	SW03-005	03/08/2004	15:30	03/09/2004	06:23
A4197601	SW03-006	03/09/2004	13:00	03/10/2004	06:35
A4197801	SW03-006	03/09/2004	13:00	03/10/2004	06:35
A4198101	SW03-006	03/09/2004	13:00	03/10/2004	06:35
A4197602	SW03-007	03/09/2004	14:30	03/10/2004	06:35
A4197803	SW03-007	03/09/2004	14:30	03/10/2004	06:35
A4198103	SW03-007	03/09/2004	14:30	03/10/2004	06:35
A4197604	SW03-008	03/09/2004	14:30	03/10/2004	06:35
A4197804	SW03-008	03/09/2004	14:30	03/10/2004	06:35
A4198104	SW03-008	03/09/2004	14:30	03/10/2004	06:35
A4197605	SW03-009	03/09/2004	13:30	03/10/2004	06:35
A4197805	SW03-009	03/09/2004	13:30	03/10/2004	06:35
A4198105	SW03-009	03/09/2004	13:30	03/10/2004	06:35
A4197606	SW03-010	03/09/2004	13:00	03/10/2004	06:35
A4197806	SW03-010	03/09/2004	13:00	03/10/2004	06:35
A4198106	SW03-010	03/09/2004	13:00	03/10/2004	06:35
A4197603	SW03-011	03/09/2004	13:45	03/10/2004	06:35
A4197802	SW03-011	03/09/2004	13:45	03/10/2004	06:35
A4198102	SW03-011	03/09/2004	13:45	03/10/2004	06:35
A4197608	TBB1-030904	03/09/2004		03/10/2004	06:35
A4197204	TBC1-030904	03/09/2004		03/09/2004	13:55
A4191203	TBC2-030804	03/08/2004		03/09/2004	06:23
A4197607	TBC2-030904	03/09/2004		03/10/2004	06:35
A4197205	TRIP BLANK	03/09/2004		03/09/2004	13:55

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METHODS SUMMARY

Job#: A04-1912,A04-1913,A04-1914,A04-1955,A04-1968,A04-1972, A04-1976,A04-1978,A04-1981,A04-2016

STL Project#: NY3A9122
SDG#: 030901
Site Name: NEW YORK POWER AUTHORITY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8290 - TCL DIOXINS & FURANS	SW8463 8290
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Mercury - Total	SW8463 7470
Potassium - Total	SW8463 6010
Sodium - Total	SW8463 6010
Bicarbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0
E Coli	SM18 9221
Fecal Bacteria Coliform	SM18 9222D
Sulfate	MCAWW 300.0
Total Alkalinity	MCAWW 310.1
Total Bacteria Coliform	SM18 9222B
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2
Total Organic Carbon	MCAWW 415.1
Total Suspended Solids	MCAWW 160.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

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NON-CONFORMANCE SUMMARY

Job#: A04-1912,A04-1913,A04-1914,A04-1955,A04-1968,A04-1972, A04-1976,A04-1978,A04-1981,A04-2016

STL Project#: NY3A9122
SDG#: 030901
Site Name: NEW YORK POWER AUTHORITY

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-1912
Sample Cooler(s) were received at the following temperature(s); 2@3.0 °C
All samples were received in good condition.

A04-1913
Sample Cooler(s) were received at the following temperature(s); 2@3.0 °C
All samples were received in good condition.

A04-1914
Sample Cooler(s) were received at the following temperature(s); 2@3.0 °C
All samples were received in good condition.

A04-1955
Sample Cooler(s) were received at the following temperature(s); 7@2.0 °C
One bottle for Biological analysis was received with broken cap for sample SW-004.
As per request of the client, resampling will be done for this point.

A04-1968
Sample Cooler(s) were received at the following temperature(s); 7@2.0 °C
All samples were received in good condition.

A04-1972
Sample Cooler(s) were received at the following temperature(s); 7 @ 2.0 °C
All samples were received in good condition.

A04-1976
Sample Cooler(s) were received at the following temperature(s); VARIOUS °C
Sample Cooler(s) were received at the following temperature(s): 4 @ 4.0, 3 @ 3.0, 2.0, 5.0 CELSIUS.

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(revised)
5/24/04

A04-1978
Sample Cooler(s) were received at the following temperature(s); VARIOUS °C
Sample Cooler(s) were received at the following temperature(s): 4 @ 4.0, 3 @ 3.0, 2.0, 5.0 CELSIUS.
A04-1981
Sample Cooler(s) were received at the following temperature(s); VARIOUS °C
Sample Cooler(s) were received at the following temperature(s): 4 @ 4.0, 3 @ 3.0, 2.0, 5.0 CELSIUS.
A04-2016
Sample Cooler(s) were received at the following temperature(s); 4@2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

All volatile samples exhibited a pH of 7 at the time of analysis. The analysis was performed within 7 days of sampling, therefore there is no impact on data usability.

Initial calibration standard curve A4I0000153-1 exhibited the %RSD of the compounds Acetone, Chloroethane and Methylene Chloride as greater than 15%. However, the mean RSD of all compounds is 6.32%.

The spike recovery of the analytes Toluene and Trichloroethene in Matrix Spike Duplicate of sample SW03-002 exceeded STL QC limits. The Matrix Spike Blank recoveries were compliant, so no corrective action is required.

GC/MS Semivolatile Data

Linear regression was used to calibrate analytes that were greater than 15% RSD in the initial calibration A4I0000139.

Dioxins and Furans were subcontracted to STL Knoxville. All data is included in this report as Appendix A.

GC Extractable Data

For method 8081 and 8082, the extracts for several samples required treatment with Copper prior to analysis due to the presence of elemental Sulfur. This is indicated for field samples and the associated batch quality control extracts in the injection logbook and on the individual report Form-1. The raw run data for any untreated extracts has been included in the raw quality control section of the data package.

For method 8081, several compounds exhibited a percent difference greater than 15% from the expected amount in the associated continuing calibrations. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant. No corrective action was required.

Although all QC indicators provided acceptable reults during the initial analysis by method 8081, sample SW03-001 exhibited low level detections which were inconsistent with historical data. Due to these inconsistencies, the samples were re-extracted outside of holding time and the re-analysis provided results more in line with historical trends. Both sets of results are provided in this data package.

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Metals Data

The analyte Sodium was detected in the CCB (08:41) at a level above the project established reporting limit. However, all samples had levels of Sodium greater than ten times that of the CCB value, therefore, no corrective action was necessary.

The RPD between sample SW03-002 and the Serail Dilution exhibited results above the quality control limits for Calcium and Magnesium. However, the LFB was acceptable.

Wet Chemistry Data

The value obtained for TDS on sample SW03-05 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for TDS on sample SW03-001 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for Total and Bicarbonate Alkalinity on sample SW03-001 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for Bicarbonate and Total Alkalinity on sample SW03-005 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

Total Plate Count, E. Coli and Total and Fecal Coliform were subcontracted to ACTS Testing Laboratory. All data is included in this report as Appendix A.

The value obtained for Total Hardness on sample SW03-003 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

The value obtained for Bicarbonate and Total Alkalinity on sample SW03-004 is inconsistent with historical trends. Reanalysis was performed and the value was confirmed. Only the result from the original analysis is provided in this data package.

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Total Plate Count, E. Coli and Total and Fecal Coliform were subcontracted to ACTS Testing Laboratory. All data is included in this report as Appendix A.

****

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000483

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030901

Lab File ID: P3900 BFB Injection Date: 03/09/2004

Instrument ID: HP5973P BFB Injection Time: 21:47

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	24.4		
75	30.0 - 60.0% of mass 95	46.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.3		
173	Less than 2.0% of mass 174	0.6	(0.9)	1
174	50 - 120 % of mass 95	63.6		
175	5.0 - 9.0% of mass 174	5.3	(8.4)	1
176	95.0 - 101.0% of mass 174	60.5	(95.2)	1
177	5.0 - 9.0% of mass 176	4.2	(6.9)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000610-1	P3901.RR	03/09/2004	22:04
2	MSB62	A4191205	P3902.RR	03/09/2004	22:44
3	VBLK62	A4191204	P3904.RR	03/09/2004	23:55
4	TBC2-030804	A4191203	P3906.RR	03/10/2004	01:06
5	SW03-001	A4191201	P3915.RR	03/10/2004	06:24
6	SW03-005	A4191202	P3916.RR	03/10/2004	07:00

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000610-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030901

Lab File Id: P3901.RR Calibration Date: 03/09/2004 Time: 22:04

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0480	0.0481	0.0100	-0.200	100.00
Benzene	1.3350	1.3590	0.0100	-1.800	100.00
Bromodichloromethane	0.3950	0.3972	0.0100	-0.600	100.00
Bromoform	0.2060	0.1874	0.1000	9.000	100.00
Bromomethane	0.0930	0.0660	0.0100	29.000	100.00
2-Butanone	0.0680	0.0676	0.0100	0.600	100.00
Methyl acetate	0.1560	0.1595	0.0100	-2.200	100.00
Cyclohexane	0.7140	0.7143	0.0100	0.000	100.00
Methylcyclohexane	0.5590	0.5585	0.0100	0.100	100.00
Carbon Disulfide	1.1120	1.1059	0.0100	0.600	100.00
Carbon Tetrachloride	0.5240	0.5553	0.0100	-6.000	100.00
Chlorobenzene	1.0930	1.0654	0.3000	2.500	100.00
Chloroethane	0.1420	0.1528	0.0100	-7.600	100.00
Chloroform	0.6280	0.6581	0.0100	-4.800	20.00
Chloromethane	0.4240	0.4439	0.1000	-4.700	100.00
Dibromochloromethane	0.2430	0.2342	0.0100	3.600	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0633	0.0100	5.500	100.00
1,2-Dibromoethane	0.1880	0.1759	0.0100	6.400	100.00
1,2-Dichlorobenzene	1.3880	1.3331	0.0100	4.000	100.00
1,3-Dichlorobenzene	1.6650	1.5824	0.0100	5.000	100.00
1,4-Dichlorobenzene	1.6370	1.5753	0.0100	3.800	100.00
Dichlorodifluoromethane	0.4550	0.3911	0.0100	14.000	100.00
1,1-Dichloroethane	0.7700	0.7981	0.1000	-3.600	100.00
1,2-Dichloroethane	0.4030	0.4319	0.0100	-7.200	100.00
1,1-Dichloroethene	0.3170	0.3178	0.0100	-0.300	100.00
cis-1,2-Dichloroethene	0.3490	0.3612	0.0100	-3.500	100.00
trans-1,2-Dichloroethene	0.3420	0.3588	0.0100	-4.900	100.00
1,2-Dichloropropane	0.3610	0.3526	0.0100	2.300	20.00
cis-1,3-Dichloropropene	0.4420	0.4411	0.0100	0.200	100.00
trans-1,3-Dichloropropene	0.4080	0.4053	0.0100	0.700	100.00
Ethylbenzene	1.9750	1.9952	0.0100	-1.000	20.00
2-Hexanone	0.1110	0.1130	0.0100	-1.800	100.00
Isopropylbenzene	3.7840	3.7228	0.0100	1.600	100.00
Methylene chloride	0.3390	0.3290	0.0100	2.900	100.00
4-Methyl-2-pentanone	0.1750	0.1750	0.0100	0.000	100.00
Styrene	1.1030	1.1575	0.0100	-4.900	100.00
1,1,2,2-Tetrachloroethane	0.4080	0.3829	0.3000	6.200	100.00
Tetrachloroethene	0.3800	0.3671	0.0100	3.400	100.00
Toluene	0.9980	1.0029	0.0100	-0.500	20.00

4/29/04 JR

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000610-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030901

Lab File Id: P3901.RR Calibration Date: 03/09/2004 Time: 22:04

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9570	0.9126	0.0100	4.600	100.00
1,1,1-Trichloroethane	0.5960	0.6275	0.0100	-5.300	100.00
1,1,2-Trichloroethane	0.1730	0.1664	0.0100	3.800	100.00
Trichloroethene	0.3550	0.3532	0.0100	0.500	100.00
Trichlorofluoromethane	0.3970	0.4486	0.0100	-13.000	100.00
Vinyl chloride	0.3220	0.3284	0.0100	-2.000	20.00
Total Xylenes	0.6980	0.7078	0.0100	-1.400	100.00
Methyl tert butyl ether	0.4900	0.4757	0.0100	2.900	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3330	0.3479	0.0100	-4.500	100.00
1,2-Dichloroethane-D4	0.3040	0.3281	0.0100	-7.900	100.00
Toluene-D8	1.3410	1.4173	0.0100	-5.700	100.00
p-Bromofluorobenzene	0.3420	0.3543	0.0100	-3.600	100.00

FORM VII VOA

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000484

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030901

Lab File ID: P3921 BFB Injection Date: 03/10/2004

Instrument ID: HP5973P BFB Injection Time: 09:50

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.8		
75	30.0 - 60.0% of mass 95	45.7		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.7		
173	Less than 2.0% of mass 174	0.3	(0.5)	1
174	50 - 120 % of mass 95	65.9		
175	5.0 - 9.0% of mass 174	4.6	(7.0)	1
176	95.0 - 101.0% of mass 174	66.0	(100.1)	1
177	5.0 - 9.0% of mass 176	4.5	(6.8)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000611-1	P3922.RR	03/10/2004	10:12
2	MSB63	A4197207	P3923.RR	03/10/2004	10:50
3	VBLK63	A4197206	P3924.RR	03/10/2004	11:25
4	TBC1-030904	A4197204	P3929.RR	03/10/2004	14:23
5	TRIP BLANK	A4197205	P3930.RR	03/10/2004	14:58
6	SW03-004	A4197201	P3931.RR	03/10/2004	15:33
7	SW03-003	A4197202	P3932.RR	03/10/2004	16:09
8	SW03-002	A4197203	P3933.RR	03/10/2004	16:44
9	SW03-002	A4197203MS	P3934.RR	03/10/2004	17:20
10	SW03-002	A4197203SD	P3935.RR	03/10/2004	17:55

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000611-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030901

Lab File Id: P3922.RR Calibration Date: 03/10/2004 Time: 10:12

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0480	0.0448	0.0100	6.700	100.00
Benzene	1.3350	1.3052	0.0100	2.200	100.00
Bromodichloromethane	0.3950	0.3704	0.0100	6.200	100.00
Bromoform	0.2060	0.1548	0.1000	24.800	100.00
Bromomethane	0.0930	0.0422	0.0100	54.600	100.00
2-Butanone	0.0680	0.0578	0.0100	15.000	100.00
Methyl acetate	0.1560	0.1361	0.0100	12.800	100.00
Cyclohexane	0.7140	0.6350	0.0100	11.100	100.00
Methylcyclohexane	0.5590	0.5067	0.0100	9.400	100.00
Carbon Disulfide	1.1120	1.0508	0.0100	5.500	100.00
Carbon Tetrachloride	0.5240	0.5161	0.0100	1.500	100.00
Chlorobenzene	1.0930	1.0085	0.3000	7.700	100.00
Chloroethane	0.1420	0.1565	0.0100	-10.200	100.00
Chloroform	0.6280	0.6221	0.0100	0.900	20.00
Chloromethane	0.4240	0.4480	0.1000	-5.700	100.00
Dibromochloromethane	0.2430	0.2093	0.0100	13.900	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0545	0.0100	18.600	100.00
1,2-Dibromoethane	0.1880	0.1571	0.0100	16.400	100.00
1,2-Dichlorobenzene	1.3880	1.2176	0.0100	12.300	100.00
1,3-Dichlorobenzene	1.6650	1.5162	0.0100	8.900	100.00
1,4-Dichlorobenzene	1.6370	1.4567	0.0100	11.000	100.00
Dichlorodifluoromethane	0.4550	0.3633	0.0100	20.200	100.00
1,1-Dichloroethane	0.7700	0.7712	0.1000	-0.200	100.00
1,2-Dichloroethane	0.4030	0.3976	0.0100	1.300	100.00
1,1-Dichloroethene	0.3170	0.2913	0.0100	8.100	100.00
cis-1,2-Dichloroethene	0.3490	0.3384	0.0100	3.000	100.00
trans-1,2-Dichloroethene	0.3420	0.3444	0.0100	-0.700	100.00
1,2-Dichloropropane	0.3610	0.3255	0.0100	9.800	20.00
cis-1,3-Dichloropropene	0.4420	0.3976	0.0100	10.000	100.00
trans-1,3-Dichloropropene	0.4080	0.3691	0.0100	9.500	100.00
Ethylbenzene	1.9750	1.9069	0.0100	3.400	20.00
2-Hexanone	0.1110	0.0968	0.0100	12.800	100.00
Isopropylbenzene	3.7840	3.4388	0.0100	9.100	100.00
Methylene chloride	0.3390	0.3144	0.0100	7.200	100.00
4-Methyl-2-pentanone	0.1750	0.1484	0.0100	15.200	100.00
Styrene	1.1030	1.0924	0.0100	1.000	100.00
1,1,2,2-Tetrachloroethane	0.4080	0.3272	0.3000	19.800	100.00
Tetrachloroethene	0.3800	0.3504	0.0100	7.800	100.00
Toluene	0.9980	0.9424	0.0100	5.600	20.00

4/29/04 [illegible]

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000611-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030901

Lab File Id: P3922.RR Calibration Date: 03/10/2004 Time: 10:12

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9570	0.8226	0.0100	14.000	100.00
1,1,1-Trichloroethane	0.5960	0.5816	0.0100	2.400	100.00
1,1,2-Trichloroethane	0.1730	0.1510	0.0100	12.700	100.00
Trichloroethene	0.3550	0.3265	0.0100	8.000	100.00
Trichlorofluoromethane	0.3970	0.4444	0.0100	-11.900	100.00
Vinyl chloride	0.3220	0.3100	0.0100	3.700	20.00
Total Xylenes	0.6980	0.6753	0.0100	3.200	100.00
Methyl tert butyl ether	0.4900	0.3997	0.0100	18.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3330	0.3277	0.0100	1.600	100.00
==========					
1,2-Dichloroethane-D4	0.3040	0.3157	0.0100	-3.800	100.00
Toluene-D8	1.3410	1.4281	0.0100	-6.500	100.00
p-Bromofluorobenzene	0.3420	0.3540	0.0100	-3.500	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000501

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030901

Lab File ID: P3938 BFB Injection Date: 03/10/2004

Instrument ID: HP5973P BFB Injection Time: 19:57

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	24.4		
75	30.0 - 60.0% of mass 95	49.1		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.1		
173	Less than 2.0% of mass 174	0.4	(0.7)	1
174	50 - 120 % of mass 95	62.7		
175	5.0 - 9.0% of mass 174	4.3	(6.9)	1
176	95.0 - 101.0% of mass 174	60.9	(97.2)	1
177	5.0 - 9.0% of mass 176	3.2	(5.3)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000633-1	P3939.RR	03/10/2004	20:15
2	MSB64	A4197610	P3940.RR	03/10/2004	20:50
3	VBLK64	A4197609	P3941.RR	03/10/2004	21:26
4	TBB1-030904	A4197608	P3942.RR	03/10/2004	22:08
5	TBC2-030904	A4197607	P3943.RR	03/10/2004	22:43
6	SW03-006	A4197601	P3954.RR	03/11/2004	05:29
7	SW03-007	A4197602	P3955.RR	03/11/2004	06:04
8	SW03-011	A4197603	P3956.RR	03/11/2004	06:40
9	SW03-008	A4197604	P3957.RR	03/11/2004	07:15
10	SW03-009	A4197605	P3958.RR	03/11/2004	07:50

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000633-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030901

Lab File Id: P3939.RR Calibration Date: 03/10/2004 Time: 20:15

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0480	0.0429	0.0100	10.600	100.00
Benzene	1.3350	1.3642	0.0100	-2.200	100.00
Bromodichloromethane	0.3950	0.3755	0.0100	4.900	100.00
Bromoform	0.2060	0.1609	0.1000	21.900	100.00
Bromomethane	0.0930	0.0578	0.0100	37.800	100.00
2-Butanone	0.0680	0.0562	0.0100	17.400	100.00
Methyl acetate	0.1560	0.1376	0.0100	11.800	100.00
Cyclohexane	0.7140	0.6615	0.0100	7.400	100.00
Methylcyclohexane	0.5590	0.5272	0.0100	5.700	100.00
Carbon Disulfide	1.1120	1.0766	0.0100	3.200	100.00
Carbon Tetrachloride	0.5240	0.5434	0.0100	-3.700	100.00
Chlorobenzene	1.0930	1.0380	0.3000	5.000	100.00
Chloroethane	0.1420	0.1614	0.0100	-13.700	100.00
Chloroform	0.6280	0.6479	0.0100	-3.200	20.00
Chloromethane	0.4240	0.4617	0.1000	-8.900	100.00
Dibromochloromethane	0.2430	0.2085	0.0100	14.200	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0541	0.0100	19.200	100.00
1,2-Dibromoethane	0.1880	0.1584	0.0100	15.700	100.00
1,2-Dichlorobenzene	1.3880	1.2592	0.0100	9.300	100.00
1,3-Dichlorobenzene	1.6650	1.5631	0.0100	6.100	100.00
1,4-Dichlorobenzene	1.6370	1.5031	0.0100	8.200	100.00
Dichlorodifluoromethane	0.4550	0.3592	0.0100	21.000	100.00
1,1-Dichloroethane	0.7700	0.8009	0.1000	-4.000	100.00
1,2-Dichloroethane	0.4030	0.4066	0.0100	-0.900	100.00
1,1-Dichloroethene	0.3170	0.3060	0.0100	3.500	100.00
cis-1,2-Dichloroethene	0.3490	0.3546	0.0100	-1.600	100.00
trans-1,2-Dichloroethene	0.3420	0.3622	0.0100	-5.900	100.00
1,2-Dichloropropane	0.3610	0.3497	0.0100	3.100	20.00
cis-1,3-Dichloropropene	0.4420	0.4017	0.0100	9.100	100.00
trans-1,3-Dichloropropene	0.4080	0.3750	0.0100	8.100	100.00
Ethylbenzene	1.9750	1.9637	0.0100	0.600	20.00
2-Hexanone	0.1110	0.0918	0.0100	17.300	100.00
Isopropylbenzene	3.7840	3.6489	0.0100	3.600	100.00
Methylene chloride	0.3390	0.3210	0.0100	5.300	100.00
4-Methyl-2-pentanone	0.1750	0.1421	0.0100	18.800	100.00
Styrene	1.1030	1.1186	0.0100	-1.400	100.00
1,1,2,2-Tetrachloroethane	0.4080	0.3341	0.3000	18.100	100.00
Tetrachloroethene	0.3800	0.3601	0.0100	5.200	100.00
Toluene	0.9980	0.9858	0.0100	1.200	20.00

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000633-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030901

Lab File Id: P3939.RR Calibration Date: 03/10/2004 Time: 20:15

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9570	0.8232	0.0100	14.000	100.00
1,1,1-Trichloroethane	0.5960	0.6113	0.0100	-2.600	100.00
1,1,2-Trichloroethane	0.1730	0.1535	0.0100	11.300	100.00
Trichloroethene	0.3550	0.3402	0.0100	4.200	100.00
Trichlorofluoromethane	0.3970	0.4661	0.0100	-17.400	100.00
Vinyl chloride	0.3220	0.3149	0.0100	2.200	20.00
Total Xylenes	0.6980	0.7024	0.0100	-0.600	100.00
Methyl tert butyl ether	0.4900	0.3773	0.0100	23.000	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3330	0.3421	0.0100	-2.700	100.00
1,2-Dichloroethane-D4	0.3040	0.3087	0.0100	-1.500	100.00
Toluene-D8	1.3410	1.4084	0.0100	-5.000	100.00
p-Bromofluorobenzene	0.3420	0.3411	0.0100	0.300	100.00

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BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000511

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 030901

Lab File ID: P3961 BFB Injection Date: 03/11/2004

Instrument ID: HP5973P BFB Injection Time: 08:58

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.2		
75	30.0 - 60.0% of mass 95	50.6		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.8		
173	Less than 2.0% of mass 174	0.5	(0.8)	1
174	50 - 120 % of mass 95	64.7		
175	5.0 - 9.0% of mass 174	5.0	(7.7)	1
176	95.0 - 101.0% of mass 174	61.8	(95.5)	1
177	5.0 - 9.0% of mass 176	4.1	(6.7)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0000668-1	P3962.RR	03/11/2004	09:24
2	MSB65	A4197612	P3963.RR	03/11/2004	10:07
3	VBLK65	A4197611	P3964.RR	03/11/2004	10:43
4	SW03-010	A4197606	P3965.RR	03/11/2004	11:19

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000668-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030901

Lab File Id: P3962.RR Calibration Date: 03/11/2004 Time: 09:24

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0480	0.0465	0.0100	3.100	100.00
Benzene	1.3350	1.3448	0.0100	-0.700	100.00
Bromodichloromethane	0.3950	0.3822	0.0100	3.200	100.00
Bromoform	0.2060	0.1542	0.1000	25.100	100.00
Bromomethane	0.0930	0.0433	0.0100	53.400	100.00
2-Butanone	0.0680	0.0613	0.0100	9.800	100.00
Methyl acetate	0.1560	0.1477	0.0100	5.300	100.00
Cyclohexane	0.7140	0.6374	0.0100	10.700	100.00
Methylcyclohexane	0.5590	0.5103	0.0100	8.700	100.00
Carbon Disulfide	1.1120	1.0619	0.0100	4.500	100.00
Carbon Tetrachloride	0.5240	0.5439	0.0100	-3.800	100.00
Chlorobenzene	1.0930	1.0123	0.3000	7.400	100.00
Chloroethane	0.1420	0.1508	0.0100	-6.200	100.00
Chloroform	0.6280	0.6462	0.0100	-2.900	20.00
Chloromethane	0.4240	0.4515	0.1000	-6.500	100.00
Dibromochloromethane	0.2430	0.2109	0.0100	13.200	100.00
1,2-Dibromo-3-chloropropane	0.0670	0.0534	0.0100	20.300	100.00
1,2-Dibromoethane	0.1880	0.1570	0.0100	16.500	100.00
1,2-Dichlorobenzene	1.3880	1.2085	0.0100	12.900	100.00
1,3-Dichlorobenzene	1.6650	1.4914	0.0100	10.400	100.00
1,4-Dichlorobenzene	1.6370	1.4452	0.0100	11.700	100.00
Dichlorodifluoromethane	0.4550	0.3289	0.0100	27.700	100.00
1,1-Dichloroethane	0.7700	0.8044	0.1000	-4.500	100.00
1,2-Dichloroethane	0.4030	0.4205	0.0100	-4.300	100.00
1,1-Dichloroethene	0.3170	0.2995	0.0100	5.500	100.00
cis-1,2-Dichloroethene	0.3490	0.3560	0.0100	-2.000	100.00
trans-1,2-Dichloroethene	0.3420	0.3564	0.0100	-4.200	100.00
1,2-Dichloropropane	0.3610	0.3398	0.0100	5.900	20.00
cis-1,3-Dichloropropene	0.4420	0.4040	0.0100	8.600	100.00
trans-1,3-Dichloropropene	0.4080	0.3782	0.0100	7.300	100.00
Ethylbenzene	1.9750	1.9191	0.0100	2.800	20.00
2-Hexanone	0.1110	0.0979	0.0100	11.800	100.00
Isopropylbenzene	3.7840	3.3755	0.0100	10.800	100.00
Methylene chloride	0.3390	0.3251	0.0100	4.100	100.00
4-Methyl-2-pentanone	0.1750	0.1492	0.0100	14.700	100.00
Styrene	1.1030	1.1074	0.0100	-0.400	100.00
1,1,2,2-Tetrachloroethane	0.4080	0.3286	0.3000	19.500	100.00
Tetrachloroethene	0.3800	0.3495	0.0100	8.000	100.00
Toluene	0.9980	0.9553	0.0100	4.300	20.00

4/29/04

FORM VII VOA

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Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0000668-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 030901

Lab File Id: P3962.RR Calibration Date: 03/11/2004 Time: 09:24

Intrument ID: HP5973P Init. Calib. Date(s): 03/04/2004 03/04/2004

Heated Purge (Y/N): N Init. Calib. Times: 20:55 23:19

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,2,4-Trichlorobenzene	0.9570	0.7953	0.0100	16.900	100.00
1,1,1-Trichloroethane	0.5960	0.6013	0.0100	-0.900	100.00
1,1,2-Trichloroethane	0.1730	0.1524	0.0100	11.900	100.00
Trichloroethene	0.3550	0.3349	0.0100	5.700	100.00
Trichlorofluoromethane	0.3970	0.4392	0.0100	-10.600	100.00
Vinyl chloride	0.3220	0.2999	0.0100	6.900	20.00
Total Xylenes	0.6980	0.6868	0.0100	1.600	100.00
Methyl tert butyl ether	0.4900	0.3850	0.0100	21.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3330	0.3331	0.0100	0.000	100.00
==========					
1,2-Dichloroethane-D4	0.3040	0.3320	0.0100	-9.200	100.00
Toluene-D8	1.3410	1.4273	0.0100	-6.400	100.00
p-Bromofluorobenzene	0.3420	0.3510	0.0100	-2.600	100.00

FORM VII VOA

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10A

PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

SW03-001

Lab Name: STL Buffalo

Case No.:

SDG No.: 030901

Lab Sample ID : A4191201

Dates(s) Analyzed: 03/22/2004 03/22/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
Endrin	1	19.05	18.98	19.08	0.048	
	2	18.83	18.78	18.88	0.030	37.5

5/6/04 [illegible]

FORM X PEST

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PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SW03-008

Lab Name: STL Buffalo

Case No.:

SDG No.: 030901

Lab Sample ID : A4197604

Dates(s) Analyzed: 03/17/2004 03/17/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW		CONC.	%D
			FROM	TO		
4,4'-DDT	1	19.72	19.71	19.81	0.047	
	2	19.75	19.69	19.79	0.024	48.9

5/6/04

FORM X PEST

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Job No: A04-1955

Niagara Power Project - Surfacewater
SAMPLE DATE 03/09/2004

SDG: 030901
Client Sample ID: SW03-002 SW03-002 MD
Lab Sample ID: A4195503 A4195503MD

Analyte	Units of Measure	Concentration Sample	Concentration Duplicate	Mean	Relative % Difference
WET CHEMISTRY ANALYSIS					
E Coli	TEXT	POSTIVE	POSTIVE	NC	0.0
Fecal Bacteria Coliform	CFU/0.1L	40.0	20.0	30.0	66.7
Heterotrophic Plate Count	CFU/ML	930	710	820	26.8
Total Bacteria Coliform	CFU/0.1L	540	920	730	52.0

5/12/04 JJR

2145/3455

NC = Not Calculated ND = Not Detected

STL Buffalo

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ICP SERIAL DILUTIONS

SAMPLE NO.

SW03-002L

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG NO.: 030901

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	2.61		50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	28597.50		31965.90		11.8	E	P
Lead	1.91		30.00	U	100.0		P
Magnesium	10022.79		11057.75		10.3	E	P
Potassium	2357.67		2567.65		8.9		P
Sodium	29023.67		36334.45		25.2		P

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 030901

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 3/16/2004 End Date: 3/16/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
STD BLK	1.00	05:08				X			X	X					X	X				X			X				
STD 1	1.00	05:12				X			X	X					X	X				X			X				
STD 2	1.00	05:17				X			X	X					X	X				X			X				
STD 3	1.00	05:21				X			X	X					X	X				X			X				
STD 3 VER	1.00	05:25				X			X	X					X	X				X			X				
ICV	1.00	05:30				X			X	X					X	X				X			X				
ICB	1.00	05:34				X			X	X					X	X				X			X				
CRI	1.00	05:39				X			X	X					X	X				X			X				
ICSA	1.00	05:43				X			X	X					X	X				X			X				
ICSAB	1.00	05:47				X			X	X					X	X				X			X				
CCV	1.00	05:53				X			X	X					X	X				X			X				
CCB	1.00	05:58				X			X	X					X	X				X			X				
ZZZZZZ	5.00	06:02																									
ZZZZZZ	1.00	06:06																									
ZZZZZZ	1.00	06:11																									
Method Blank	1.00	06:15				X			X	X					X	X				X			X				
LFB	1.00	06:20				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:24																									
ZZZZZZ	5.00	06:29																									
ZZZZZZ	1.00	06:33																									
ZZZZZZ	1.00	06:37																									
ZZZZZZ	1.00	06:42																									
CCV	1.00	06:48				X			X	X					X	X				X			X				
CCB	1.00	06:52				X			X	X					X	X				X			X				
ZZZZZZ	1.00	06:56																									
ZZZZZZ	1.00	07:01																									
ZZZZZZ	1.00	07:05																									
ZZZZZZ	1.00	07:10																									
ZZZZZZ	1.00	07:14																									
ZZZZZZ	1.00	07:19																									
ZZZZZZ	1.00	07:23																									
ZZZZZZ	1.00	07:27																									
ZZZZZZ	1.00	07:32																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 030901

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 3/16/2004 End Date: 3/16/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	07:36																									
CCV	1.00	07:42				X			X	X					X	X				X			X				
CCB	1.00	07:46				X			X	X					X	X				X			X				
ZZZZZZ	1.00	07:51																									
ZZZZZZ	1.00	07:55																									
ZZZZZZ	5.00	08:00																									
ZZZZZZ	1.00	08:04																									
ZZZZZZ	1.00	08:09																									
SW03-004	1.00	08:13				X			X	X					X	X				X			X				
SW03-003	1.00	08:17				X			X	X					X	X				X			X				
SW03-002	1.00	08:22				X			X	X					X	X				X			X				
SW03-002L	5.00	08:26				X			X	X					X	X				X			X				
SW03-002A	1.00	08:31				X			X	X					X	X				X			X				
CCV	1.00	08:37				X			X	X					X	X				X			X				
CCB	1.00	08:41				X			X	X					X	X				X			X				
SW03-002\MD	1.00	08:45				X			X	X					X	X				X			X				
SW03-002\MS	1.00	08:50				X			X	X					X	X				X			X				
ZZZZZZ	1.00	08:54																									
ZZZZZZ	1.00	08:59																									
ZZZZZZ	1.00	09:03																									
ZZZZZZ	1.00	09:07																									
ZZZZZZ	1.00	09:12																									
ZZZZZZ	5.00	09:16																									
ZZZZZZ	1.00	09:21																									
ZZZZZZ	1.00	09:25																									
CCV	1.00	09:31				X			X	X					X	X				X			X				
CCB	1.00	09:35				X			X	X					X	X				X			X				
ZZZZZZ	1.00	09:40																									
CCV	1.00	09:46				X			X	X					X	X				X			X				
CCB	1.00	09:50				X			X	X					X	X				X			X				
CRI	1.00	09:54				X			X	X					X	X				X			X				
ICSA	1.00	09:59				X			X	X					X	X				X			X				
ICSAB	1.00	10:03				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG No.: 030901

Instrument ID Number: SUPERTRACE2 Method: P

Start Date: 3/16/2004 End Date: 3/16/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
CCV	1.00	10:09				X			X	X					X	X				X			X				
CCB	1.00	10:14				X			X	X					X	X				X			X				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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DATA USABILITY SUMMARY REPORT GROUNDWATER SAMPLING EVENT APRIL 2004

Niagara Power Project

(FERC No. 2216)

Prepared for:

New York Power Authority

Prepared by:

URS Corporation

July 2004

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1.0 INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *Guidance for the Development of Data Usability Summary Reports*, dated June 1999. It should be noted that the data validation was limited primarily to a review of the chain-of-custody records, data package case narratives, and laboratory reporting forms. Raw analytical data and sample concentration calculations were only reviewed when deemed necessary (e.g., when the reported result was suspect or inconsistent with historical data).

2.0 ANALYTICAL METHODOLOGIES

The data being evaluated are from the April 12-13, 2004 sampling of seven groundwater samples, one matrix spike/matrix spike duplicate (MS/MSD) pair, and 4 trip blanks. The analytical laboratory that performed the analyses is Severn Trent Laboratories, located in Amherst, New York (STL-Buffalo). The samples were analyzed for the following parameters:

- Target Compound List (TCL) volatile organic compounds (VOCs) by EPA Method 8260B;
- TCL semivolatile organic compounds (SVOCs) by EPA Method 8270C;
- TCL pesticides by EPA Method 8081A;
- TCL polychlorinated biphenyls (PCBs) by EPA Method 8082;
- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) by EPA Method 8290;
- arsenic, cadmium, calcium, lead, magnesium, potassium, and sodium by EPA Method 6010B;
- mercury by Method EPA 7470A;
- total alkalinity and bicarbonate alkalinity by EPA Method 310.1;
- chloride and sulfate by EPA Method 300.0;
- total hardness by EPA Method 130.2;
- total dissolved solids (TDS) by EPA Method 160.1;

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- total organic carbon (TOC) by EPA Method 415.1;
- total suspended solids (TSS) by EPA Method 160.2;
- heterotrophic plate count by Standard Method 9215B;
- total coliform by Standard Methods 9222B; and
- E. coli by Standard Method 9221.

Not all samples were analyzed for all parameters.

The methods referenced are from: *Test Methods for Evaluating Solid Waste, Physical/ Chemical Methods, SW-846*, Final Update III, USEPA, June 1997; *Methods for Chemical Analysis of Water and Wastes*, EPA-600/4-79-020, USEPA, Revised March 1983; and *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, 1998.

STL-Buffalo subcontracted the following parameters: monomethyl mercury analyses to Brooks Rand, LLC, located in Seattle, WA; 2,3,7,8-TCDD analyses to STL-Knoxville, located in Knoxville, TN; and heterotrophic plate count, total coliform, and *E. coli* analyses to MTL-ACTS, Bureau Veritas Consumer Products Services, Inc., located in Buffalo, NY (ACTS).

The data were reviewed for completeness with regard to deliverables, holding times, and compliance with the referenced methods. The data were qualified following the guidelines presented in: USEPA Region II *CLP Organics Data Review and Preliminary Review*, SOP No. HW-6, Revision 12, March 2001; USEPA Region II *Evaluation of Metals Data for the CLP Program*, SOP HW-2, Revision 11, January 1992; and USEPA Region II *SOP for SW-846 Method 8290, Polychlorinated Dibenzodioxins (PCDDs) and Polychlorinated Dibenzofurans (PCDFs) by High-resolution Gas Chromatography/High Resolution Mass Spectrometry (HRGC/HRMS)*, SOP No. HW-19, Revision 1, October 1994.

Qualifications applied to the data include "J/UJ" (estimated concentration/estimated quantitation limit), "U" (not detected), and "R" (rejected). A summary of sample qualification is presented on Table 1. The validated analytical results are presented on Tables 2 and 3. Definitions of USEPA Region II data qualifiers are presented in Attachment A. Definitions of sample concentration units are presented in

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Attachment B. Documentation supporting qualification of data is presented in Attachment C. Only data qualified due to nonconformance with method and/or project requirements are discussed in this report.

3.0 DATA DELIVERABLE COMPLETENESS

The laboratory deliverable data packages were in accordance with NYSDEC Analytical Services Protocol (ASP), June 2000, Category B requirements.

4.0 HOLDING TIMES

All analyses were performed within the method and USEPA Region II technical holding times.

5.0 NONCONFORMANCES

The following quality control (QC) non-conformances were noted during the data review:

- Miscellaneous

  The heterotrophic plate count result for sample GW03-015C-P7 was outside the countable range specified in the method. Because of the short holding times for these analyses, reanalysis of the sample was not possible. The detected result for heterotrophic plate count in sample GW03-015C-P7 was qualified "J."

- Initial and Continuing Calibrations

  The RRF for the VOC acetone was below the USEPA Region II QC limit of 0.05 in one or more continuing calibration (CCAL) standards. The results for acetone in the associated samples listed on Table 1 (all were non-detect) were qualified "R."

  The percent difference (%D) between the initial calibration (ICAL) average RRF and the RRF in one or more of the CCAL standards exceeded the USEPA Region II QC limit of 25% for the VOCs chloromethane and/or bromomethane. The results for these compounds in the associated samples listed on Table 1 (all were non-detect) were qualified "UJ."

- Blank Contamination

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A negative concentration greater than the negative reporting limit was detected in the mercury method blank associated with sample GW03-015B-P5. The non-detect result for mercury in this sample was qualified "UJ."

- Surrogate Recovery

  The pesticide analysis of samples GW03-015A-P2 exhibited recoveries below the lower QC limit on both analytical columns for the surrogate tetrachloro-m-xylene. The results for all pesticides (all were non-detect) were qualified "UJ." The sample was not re-extracted and reanalyzed.

- Analyte Identification

  The %D between the concentration of gamma-BHC detected on the primary chromatographic column and that detected on the confirmation column exceeded 25% but was less than 70% in sample GW03-015B-P5. The result for gamma-BHC in this sample was qualified "J."

- Serial Dilutions

  The %D between the concentration of potassium in the undiluted analysis of sample GW03-015A-P2 and the concentration in the serial dilution analysis of the sample exceeded 10%. The results for potassium in sample GW03-015A-P2 was qualified "J." This serial dilution analysis was not associated with any other samples, and no other data required qualification.

6.0 SAMPLE RESULTS AND REPORTING

All quantitation limits were reported in accordance with method requirements and were adjusted for sample size and dilution factors.

The VOC fraction of sample GW03-015C-P7 was diluted prior to analysis due to elevated concentrations of target compounds. The reporting limits for the VOCs in this sample are the lowest achievable at the diluted level.

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Samples from location GW03-015A-P2 collected during previous sampling events were diluted prior to analysis due to excessive foaming during sample purging. Based on this, the laboratory initially analyzed the VOC fraction of sample GW03-015A-P2 from the current round of sampling at dilution factors of five and ten, using two of the three vials sent to the laboratory for analysis. However, the sample did not exhibit excessive foaming, and therefore the laboratory reanalyzed the sample undiluted. The analyst could not locate the third vial sent to the laboratory, and therefore combined the remaining volume from the two vials used for the diluted analyses. Because of the presence of headspace in these two vials after the undiluted analyses were performed, there was the potential for loss of VOCs prior to combining the remaining volume and performing the undiluted analysis. The results for all detected VOCs in sample GW03-015A-P2 were qualified "J," and the results for all non-detect results except acetone were qualified "UJ." The non-detect result for acetone was previously qualified "R" due to a low CCAL RRF, as discussed in Section 5.0.

Sample results qualified "D" were reported from secondary dilution analyses. Several organic sample results were qualified "J" by the laboratory indicating estimated concentrations below the quantitation limits.

7.0 SUMMARY

All sample analyses were found to be compliant with the method criteria, except where previously noted. Those results qualified "J/UJ"(estimated/estimated quantitation limit) are considered conditionally usable. Those results qualified "U" are considered not detected. Those results qualified "R" (rejected) are unusable. All other sample results are usable as reported.

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TABLE 1

SUMMARY OF DATA QUALIFICATIONS

Sample ID	Fraction	Analytical Deviation	Qualification
GW03-015A-P1, GW03-015A-P2, GW03-015A-P3, GW03-015B-P4, GW03-015B-P5, GW03-015C-P7, TB01-041204, TB01-041304, and TB02-041304	VOC	CCAL RRF <0.05 for acetone.	Qualify non-detect results "R."
GW03-015A-P1 and TB01-041204	VOC	CCAL >25 %D bromomethane.	Qualify non-detect results "UJ."
GW03-015B-P6 and TB02-041204	VOC	CCAL >25 %D for chloromethane.	Qualify non-detect results "UJ."
GW03-015A-P2	VOC	Sample vial contained headspace.	Qualify detected results "J" and non-detect results "UJ," except for acetone (previously qualified "R").
GW03-015A-P2	Pesticide	Surrogate recoveries below quality control limits.	Qualify non-detect result "UJ."
GW03-015B-P5	Pesticide	%D between column concentrations > 25% but < 70% for gamma-BHC.	Qualify detected results "J."
GW03-015B-P5	Metals	Concentration of mercury in the method blank greater than the negative reporting limit.	Qualify non-detect result "UJ."
GW03-015A-P2	Metals	Serial dilution >10%D for potassium.	Qualify detected result >10X IDL "J."
GW03-015C-P7	Heterotrophic plate count	Result outside countable range specified in the method.	Qualify detected result "J."

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/12/04	04/13/04	04/13/04	04/13/04	04/13/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.5
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	32
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	41 D
1,1-Dichloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.6
1,1-Dichloroethene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	3.3
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	26
1,2-Dichloroethene (cis)	UG/L	3.2	1.0 UJ	1.0 U	1.0 U	78 D
1,2-Dichloroethene (trans)	UG/L	6.7	1.0 UJ	1.0 U	1.0 U	67 D
1,2-Dichloropropane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 UJ	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	R	R	R	R
Benzene	UG/L	0.76 J	0.40 J	1.0 U	1.0 U	1.3
Bromodichloromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

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Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/12/04	04/13/04	04/13/04	04/13/04	04/13/04
Parameter	Units					
Volatile Organic Compounds						
Bromoform	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	2.8 J	0.55 J	1.0 U	3.2
Carbon Tetrachloride	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	0.21 J	1.0 UJ	1.0 U	1.0 U	0.33 J
Chloroethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	0.44 J	1.0 UJ	1.0 U	1.0 U	28
Chloromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 J	2.8	1.0 U	1.9
Dibromochloromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	0.35 J	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	0.22 J
Methyl acetate	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 UJ	11	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 UJ	0.67 J	1.0 U	2.0
Methylene Chloride	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	6.4
Styrene	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	0.30 J	1.0 UJ	1.0 U	0.45 J	0.84 J
Toluene	UG/L	1.0 U	0.39 J	1.0 U	1.0 U	0.87 J
Total Xylenes	UG/L	3.0 U	3.0 UJ	2.7 J	3.0 U	3.0 U
Trichloroethene	UG/L	1.2	1.0 UJ	1.0 U	1.0 U	8.5

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/12/04	04/13/04	04/13/04	04/13/04	04/13/04
Parameter	Units					
Volatile Organic Compounds						
Trichlorofluoromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	130 D	1.0 UJ	1.0 U	1.0 U	520 D
Semivolatile Organic Compounds						
1,1-Biphenyl	UG/L	10 U	10 U	NA	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U	NA	10 U	10 U
2,4-Dinitrophenol	UG/L	50 U	50 U	NA	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U	NA	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U	NA	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U	NA	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U	NA	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	2 J	NA	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U	NA	10 U	10 U
2-Nitroaniline	UG/L	50 U	50 U	NA	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U	NA	10 U	10 U
3,3-Dichlorobenzidine	UG/L	20 U	20 U	NA	19 U	19 U
3-Nitroaniline	UG/L	50 U	50 U	NA	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	50 U	50 U	NA	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U	NA	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U	NA	10 U	10 U
4-Chloroaniline	UG/L	10 U	10 U	NA	10 U	10 U

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Checked By_JJL 6/4/04_

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/12/04	04/13/04	04/13/04	04/13/04	04/13/04
Parameter	Units					
Semivolatile Organic Compounds						
4-Chlorophenyl-phenylether	UG/L	10 U	10 U	NA	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U	NA	10 U	10 U
4-Nitroaniline	UG/L	50 U	50 U	NA	48 U	48 U
4-Nitrophenol	UG/L	50 U	50 U	NA	48 U	48 U
Acenaphthene	UG/L	10 U	10 U	NA	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U	NA	10 U	10 U
Acetophenone	UG/L	10 U	10 U	NA	10 U	10 U
Anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Atrazine	UG/L	10 U	10 U	NA	10 U	10 U
Benzaldehyde	UG/L	50 U	50 U	NA	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U	NA	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U	NA	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U	NA	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Caprolactam	UG/L	10 U	10 U	NA	10 U	10 U
Carbazole	UG/L	10 U	10 U	NA	10 U	10 U
Chrysene	UG/L	10 U	10 U	NA	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/12/04	04/13/04	04/13/04	04/13/04	04/13/04
Parameter	Units					
Semivolatile Organic Compounds						
Dibenz(a,h)anthracene	UG/L	10 U	10 U	NA	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U	NA	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U	NA	10 U	10 U
Fluoranthene	UG/L	10 U	10 U	NA	10 U	10 U
Fluorene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U	NA	10 U	10 U
Hexachlorocyclopentadiene	UG/L	24 U	24 U	NA	23 U	23 U
Hexachloroethane	UG/L	10 U	10 U	NA	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U	NA	10 U	10 U
Isophorone	UG/L	10 U	10 U	NA	10 U	10 U
Naphthalene	UG/L	10 U	3 J	NA	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U	NA	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U	NA	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U	NA	10 U	10 U
Pentachlorophenol	UG/L	50 U	50 U	NA	48 U	48 U
Phenanthrene	UG/L	10 U	10 U	NA	10 U	10 U
Phenol	UG/L	10 U	10 U	NA	10 U	10 U
Pyrene	UG/L	10 U	10 U	NA	10 U	10 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/12/04	04/13/04	04/13/04	04/13/04	04/13/04
Parameter	Units					
Pesticides						
4,4-DDD	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
4,4-DDE	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
4,4-DDT	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Aldrin	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
alpha-BHC	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
alpha-Chlordane	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
beta-BHC	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
delta-BHC	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Dieldrin	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Endosulfan I	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Endosulfan II	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Endosulfan sulfate	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Endrin	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Endrin aldehyde	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Endrin ketone	UG/L	0.072 U	0.069 UJ	NA	0.070 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.020 J
gamma-Chlordane	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Heptachlor	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Heptachlor epoxide	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Methoxychlor	UG/L	0.050 U	0.048 UJ	NA	0.048 U	0.048 U
Toxaphene	UG/L	1.0 U	0.96 UJ	NA	0.97 U	0.97 U
Polychlorinated Biphenyls						
Aroclor 1016	UG/L	0.50 U	0.52 U	NA	0.50 U	0.47 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 6/4/04_

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/12/04	04/13/04	04/13/04	04/13/04	04/13/04
Parameter	Units					
Polychlorinated Biphenyls						
Aroclor 1221	UG/L	0.50 U	0.52 U	NA	0.50 U	0.47 U
Aroclor 1232	UG/L	0.50 U	0.52 U	NA	0.50 U	0.47 U
Aroclor 1242	UG/L	0.50 U	0.52 U	NA	0.50 U	0.47 U
Aroclor 1248	UG/L	0.50 U	0.52 U	NA	0.50 U	0.47 U
Aroclor 1254	UG/L	0.50 U	0.52 U	NA	0.50 U	0.47 U
Aroclor 1260	UG/L	0.50 U	0.52 U	NA	0.50 U	0.47 U
Dioxins & Furans						
2,3,7,8-TCDD	PG/L	6.3 U	3.3 U	NA	3.5 U	5.0 U
Metals						
Arsenic	UG/L	10.0 U	10.0 U	NA	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U	NA	1.0 U	1.0 U
Calcium	UG/L	73,900	5,310,000	NA	240,000	162,000
Lead	UG/L	6.0 U	6.0 U	NA	6.0 U	6.0 U
Magnesium	UG/L	13,700	1,660,000	NA	59,400	26,300
Mercury	UG/L	0.200 U	0.200 U	NA	0.200 U	0.200 UJ
Potassium	UG/L	2,030	256,000 J	NA	3,200	6,060
Sodium	UG/L	23,400	14,200,000	NA	92,300	81,100
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	114	257	NA	302	148
Alkalinity, Total (as CaCO3)	MG/L	114	257	NA	302	148
Chloride	MG/L	51.4	79,000	NA	257	216
Hardness	MG/L	252	19,600	NA	830	492
Sulfate (as SO4)	MG/L	130	2,810	NA	625	399

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Checked By_JJL 6/4/04_

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P3	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/12/04	04/13/04	04/13/04	04/13/04	04/13/04
Parameter	Units					
Miscellaneous Parameters						
Total Dissolved Solids	MG/L	366	58,900	NA	1,300	886
Total Organic Carbon (TOC)	MG/L	1.4	1.0 U	1.0 U	2.2	2.0
Total Suspended Solids	MG/L	4.0 U	54.0	NA	4.0 U	4.0 U
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1200	82	NA	2400	920
Total Coliform	C/100 ML	500	20 U	NA	300	20
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

Flags assigned during chemistry validation are shown.

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Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		04/12/04	04/13/04
Parameter	Units		
Volatile Organic Compounds			
1,1,1-Trichloroethane	UG/L	1.0 U	4.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	4.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	4.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	4.0 U
1,1-Dichloroethane	UG/L	1.0 U	4.0 U
1,1-Dichloroethene	UG/L	1.0 U	4.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	4.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	4.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	4.0 U
1,2-Dichloroethane	UG/L	1.0 U	4.0 U
1,2-Dichloroethene (cis)	UG/L	0.35 J	14
1,2-Dichloroethene (trans)	UG/L	0.49 J	20
1,2-Dichloropropane	UG/L	1.0 U	4.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	4.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	4.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	4.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	4.0 U
2-Hexanone	UG/L	5.0 U	20 U
4-Methyl-2-Pentanone	UG/L	5.0 U	20 U
Acetone	UG/L	5.0 U	R
Benzene	UG/L	1.0 U	3.1 J
Bromodichloromethane	UG/L	1.0 U	4.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

Printed: 6/9/2004 10:48:28 AM
[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		04/12/04	04/13/04
Parameter	**Units**		
Volatile Organic Compounds			
Bromoform	UG/L	1.0 U	4.0 U
Bromomethane	UG/L	1.0 U	4.0 U
Carbon Disulfide	UG/L	1.0 U	10
Carbon Tetrachloride	UG/L	1.0 U	4.0 U
Chlorobenzene	UG/L	1.0 U	4.0 U
Chloroethane	UG/L	1.0 U	4.0 U
Chloroform	UG/L	1.0 U	4.0 U
Chloromethane	UG/L	1.0 UJ	4.0 U
Cyclohexane	UG/L	1.0 U	4.0 U
Dibromochloromethane	UG/L	1.0 U	4.0 U
Dichlorodifluoromethane	UG/L	1.0 U	4.0 U
Ethylbenzene	UG/L	1.0 U	4.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	4.0 U
Methyl acetate	UG/L	1.0 U	4.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	20 U
Methyl tert-butyl ether	UG/L	1.0 U	4.0 U
Methylcyclohexane	UG/L	1.0 U	4.0 U
Methylene Chloride	UG/L	1.0 U	4.0 U
Styrene	UG/L	1.0 U	4.0 U
Tetrachloroethene	UG/L	1.0 U	4.0 U
Toluene	UG/L	1.0 U	4.0 U
Total Xylenes	UG/L	3.0 U	12 U
Trichloroethene	UG/L	0.50 J	1.6 J

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		04/12/04	04/13/04
Parameter	**Units**		
Volatile Organic Compounds			
Trichlorofluoromethane	UG/L	1.0 U	4.0 U
Vinyl Chloride	UG/L	1.0 U	580 D
Semivolatile Organic Compounds			
1,1-Biphenyl	UG/L	10 U	10 U
2,4,5-Trichlorophenol	UG/L	10 U	10 U
2,4,6-Trichlorophenol	UG/L	10 U	10 U
2,4-Dichlorophenol	UG/L	10 U	10 U
2,4-Dimethylphenol	UG/L	10 U	10 U
2,4-Dinitrophenol	UG/L	48 U	48 U
2,4-Dinitrotoluene	UG/L	10 U	10 U
2,6-Dinitrotoluene	UG/L	10 U	10 U
2-Chloronaphthalene	UG/L	10 U	10 U
2-Chlorophenol	UG/L	10 U	10 U
2-Methylnaphthalene	UG/L	10 U	10 U
2-Methylphenol (o-cresol)	UG/L	10 U	10 U
2-Nitroaniline	UG/L	48 U	48 U
2-Nitrophenol	UG/L	10 U	10 U
3,3-Dichlorobenzidine	UG/L	19 U	19 U
3-Nitroaniline	UG/L	48 U	48 U
4,6-Dinitro-2-methylphenol	UG/L	48 U	48 U
4-Bromophenyl-phenylether	UG/L	10 U	10 U
4-Chloro-3-methylphenol	UG/L	10 U	10 U
4-Chloroaniline	UG/L	10 U	1 J

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		04/12/04	04/13/04
Parameter	Units		
Semivolatile Organic Compounds			
4-Chlorophenyl-phenylether	UG/L	10 U	10 U
4-Methylphenol (p-cresol)	UG/L	10 U	10 U
4-Nitroaniline	UG/L	48 U	48 U
4-Nitrophenol	UG/L	48 U	48 U
Acenaphthene	UG/L	10 U	10 U
Acenaphthylene	UG/L	10 U	10 U
Acetophenone	UG/L	10 U	10 U
Anthracene	UG/L	10 U	10 U
Atrazine	UG/L	10 U	10 U
Benzaldehyde	UG/L	48 U	48 U
Benzo(a)anthracene	UG/L	10 U	10 U
Benzo(a)pyrene	UG/L	10 U	10 U
Benzo(b)fluoranthene	UG/L	10 U	10 U
Benzo(g,h,i)perylene	UG/L	10 U	10 U
Benzo(k)fluoranthene	UG/L	10 U	10 U
bis(2-Chloroethoxy)methane	UG/L	10 U	10 U
bis(2-Chloroethyl)ether	UG/L	10 U	10 U
bis(2-Chloroisopropyl)ether	UG/L	10 U	10 U
bis(2-Ethylhexyl)phthalate	UG/L	10 U	10 U
Butylbenzylphthalate	UG/L	10 U	10 U
Caprolactam	UG/L	10 U	10 U
Carbazole	UG/L	10 U	10 U
Chrysene	UG/L	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		04/12/04	04/13/04
Parameter	Units		
Semivolatile Organic Compounds			
Dibenz(a,h)anthracene	UG/L	10 U	10 U
Dibenzofuran	UG/L	10 U	10 U
Diethylphthalate	UG/L	10 U	10 U
Dimethylphthalate	UG/L	10 U	10 U
Di-n-butylphthalate	UG/L	10 U	10 U
Di-n-octylphthalate	UG/L	10 U	10 U
Fluoranthene	UG/L	10 U	10 U
Fluorene	UG/L	10 U	10 U
Hexachlorobenzene	UG/L	10 U	10 U
Hexachlorobutadiene	UG/L	10 U	10 U
Hexachlorocyclopentadiene	UG/L	23 U	23 U
Hexachloroethane	UG/L	10 U	10 U
Indeno(1,2,3-cd)pyrene	UG/L	10 U	10 U
Isophorone	UG/L	10 U	10 U
Naphthalene	UG/L	10 U	10 U
Nitrobenzene	UG/L	10 U	10 U
N-Nitroso-di-n-propylamine	UG/L	10 U	10 U
N-Nitrosodiphenylamine	UG/L	10 U	10 U
Pentachlorophenol	UG/L	48 U	48 U
Phenanthrene	UG/L	10 U	10 U
Phenol	UG/L	10 U	10 U
Pyrene	UG/L	10 U	10 U

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		04/12/04	04/13/04
Parameter	Units		
Pesticides			
4,4-DDD	UG/L	0.048 U	0.048 U
4,4-DDE	UG/L	0.048 U	0.048 U
4,4-DDT	UG/L	0.048 U	0.048 U
Aldrin	UG/L	0.048 U	0.048 U
alpha-BHC	UG/L	0.048 U	0.048 U
alpha-Chlordane	UG/L	0.048 U	0.048 U
beta-BHC	UG/L	0.048 U	0.048 U
delta-BHC	UG/L	0.048 U	0.048 U
Dieldrin	UG/L	0.048 U	0.048 U
Endosulfan I	UG/L	0.048 U	0.048 U
Endosulfan II	UG/L	0.048 U	0.048 U
Endosulfan sulfate	UG/L	0.048 U	0.048 U
Endrin	UG/L	0.048 U	0.048 U
Endrin aldehyde	UG/L	0.048 U	0.048 U
Endrin ketone	UG/L	0.070 U	0.070 U
gamma-BHC (Lindane)	UG/L	0.048 U	0.048 U
gamma-Chlordane	UG/L	0.048 U	0.048 U
Heptachlor	UG/L	0.048 U	0.048 U
Heptachlor epoxide	UG/L	0.048 U	0.048 U
Methoxychlor	UG/L	0.048 U	0.048 U
Toxaphene	UG/L	0.96 U	0.97 U
Polychlorinated Biphenyls			
Aroclor 1016	UG/L	0.50 U	0.49 U

Flags assigned during chemistry validation are shown.

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Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N'

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		04/12/04	04/13/04
Parameter	Units		
Polychlorinated Biphenyls			
Aroclor 1221	UG/L	0.50 U	0.49 U
Aroclor 1232	UG/L	0.50 U	0.49 U
Aroclor 1242	UG/L	0.50 U	0.49 U
Aroclor 1248	UG/L	0.50 U	0.49 U
Aroclor 1254	UG/L	0.50 U	0.49 U
Aroclor 1260	UG/L	0.50 U	0.49 U
Dioxins & Furans			
2,3,7,8-TCDD	PG/L	3.5 U	2.7 U
Metals			
Arsenic	UG/L	10.0 U	10.0 U
Cadmium	UG/L	1.0 U	1.0 U
Calcium	UG/L	57,000	118,000
Lead	UG/L	6.0 U	6.0 U
Magnesium	UG/L	11,600	29,700
Mercury	UG/L	0.200 U	0.200 U
Potassium	UG/L	2,310	3,410
Sodium	UG/L	27,100	37,900
Miscellaneous Parameters			
Alkalinity, Bicarbonate (as CaCO3)	MG/L	101	171
Alkalinity, Total (as CaCO3)	MG/L	101	171
Chloride	MG/L	51.8	76.0
Hardness	MG/L	188	404
Sulfate (as SO4)	MG/L	81.7	232

Flags assigned during chemistry validation are shown.

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TABLE 2
VALIDATED GROUNDWATER SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		GW03-015B-P6	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015C-P7
Matrix		Groundwater	Groundwater
Depth Interval (ft)		-	-
Date Sampled		04/12/04	04/13/04
Parameter	**Units**		
Miscellaneous Parameters			
Total Dissolved Solids	MG/L	328	588
Total Organic Carbon (TOC)	MG/L	1.0	2.8
Total Suspended Solids	MG/L	4.0 U	4.0 U
Bacterial and Microbial Parameters			
Heterotrophic Plate Count	CFU/ML	350	18 J
Total Coliform	C/100 ML	20 U	20
E Coli	POS/NEG	NEG	NEG

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB01-0412-04	TB02-041204	TB01-041304	TB02-041304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		04/12/04	04/12/04	04/13/04	04/13/04
Parameter	Units	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-trifluoroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (cis)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichloropropene (trans)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-Pentanone	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	UG/L	R	5.0 U	R	R
Benzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB01-0412-04	TB02-041204	TB01-041304	TB02-041304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		04/12/04	04/12/04	04/13/04	04/13/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds					
Bromoform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	UG/L	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon Disulfide	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Carbon Tetrachloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane	UG/L	1.0 U	1.0 UJ	1.0 U	1.0 U
Cyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl acetate	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Ethyl Ketone (2-Butanone)	UG/L	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylcyclohexane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Total Xylenes	UG/L	3.0 U	3.0 U	3.0 U	3.0 U
Trichloroethene	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

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[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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TABLE 3
VALIDATED FIELD QC SAMPLE RESULTS
APRIL 2004
NIAGARA POWER PROJECT RELICENSING

Location ID		FIELDQC	FIELDQC	FIELDQC	FIELDQC
Sample ID		TB01-0412-04	TB02-041204	TB01-041304	TB02-041304
Matrix		Quality Control	Quality Control	Quality Control	Quality Control
Depth Interval (ft)		-	-	-	-
Date Sampled		04/12/04	04/12/04	04/13/04	04/13/04
Parameter	**Units**	Trip Blank (1-1)	Trip Blank (2-2)	Trip Blank (1-1)	Trip Blank (2-2)
Volatile Organic Compounds					
Trichlorofluoromethane	UG/L	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl Chloride	UG/L	1.0 U	1.0 U	1.0 U	1.0 U

Flags assigned during chemistry validation are shown.

Made By_AMK 6/3/04_
Checked By_JJL 6/4/04_

Detection Limits shown are PQL

Printed: 6/9/2004 10:52:41 AM
[tblRES].[SITEID] = 'GROUNDWATER' AND [tblRES].[LOGDATE] >= #4/12/2004# AND [tblRES].[LOCID] = 'FIELDQC'

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ATTACHMENT A
DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

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ATTACHMENT B
DEFINITIONS OF SAMPLE CONCENTRATION UNITS

PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.
POS/NEG	The sample tested positive or negative for this analyte.

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ATTACHMENT C
DOCUMENTATION SUPPORTING THE QUALIFICATION OF DATA

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA G.W. Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban / R. Pekarski

LAB STL - Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOC (40ml VOA)	TOC (40ml HCl)	TCL Pesticides (1L Amber)	TCL PCB (1L Amber)	Dioxin (2,3,7,8 TCDD) (1L Amber)	Metals Total Hg (16oz HDPE HNO3)	TDS/TSS Cl-/SO4 (16oz HDPE)	TCL SVOC (1L Amber)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P1	4/12/04	1030	G	GW03-015A-P1	WG	18	3	2	2	1	2	1	1	2		N1	—	—	
GW03-015A-P1	4/12/04	1030	G	GW03-015A-P1-MS	WG	18	3	2	2	1	2	1	1	2	MS	N1	—	—	
GW03-015A-P1	4/12/04	1030	G	GW03-015A-P1-MSD	WG	18	3	2	2	1	2	1	1	2	MSD	N1	—	—	
TB01-041204	4/12/04	—	-	TB01-0412-04	—	1	1								Trip blank	TB01	—	—	

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Thomas J. Urban	4/12/04	1405	STL	4-12-04	14:05
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Samples on ice contact Jim Lehnen w/any questions 856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

3.92.0°

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA - G.W. Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban / R. Pekarski

LAB STL-Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: N/A

TESTS: Alkalinity (mg/l as CaCO3); Total hardness; Total & E. coli; Het plate count

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO3; 4oz HDPE Na2S2O3; 4oz HDPE Na2S2O3

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. OF CONTAINERS	8oz HDPE	4oz HDPE HNO3	4oz HDPE Na2S2O3	4oz HDPE Na2S2O3	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P1	4/12/04	1030	G	GW03-015A-P1	WG	—	1	1	1	1		N1	—	—	
GW03-015A-P1	4/12/04	1030	G	GW03-015A-P1-MS	WG	—	1	1	1	1	MS	N1	—	—	
GW03-015A-P1	4/12/04	1030	G	GW03-015A-P1-MSD	WG	—	1	1	1	1	MSD	N1	—	—	

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE

(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Thomas J. Urban	4/12/04	1405	[signature] STL	4-12-04	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

3.92.0°C

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA-GW INV.

SAMPLERS (PRINT/SIGNATURE) T. Urban / R. Pekarski

LAB STL - Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: Auto AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOC (40 ml VOA)	TOC (40 ml VOA)	TCL SVOC (1 L Amber)	TCL Pest (1 L Amber)	TCL PCB (1 L Amber)	Dioxin 2,3,7,8-TCDD (1 L Amber)	Metals Total Hg (16oz HDPE HNO3)	TDS/TSS Cl-/SO4- (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015B-P6	4/12/04	1530	G	GW03-015B--P6	WG	18	3	2	2	2	1	2	1	1		N1	—	—	
TB02-041204	4/12/04	—	—	TB02-041204	—	1	1								Trip Blank	TB02	—	—	

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tom Urban	4/12/04	700	[illegible]	4/13/04	7:04
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS: Samples on ice. contact Jim Lehnen w/ any questions 856-5636

[redacted]on: Original accompanies shipment, copy to coordinator field files

[redacted]/CR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA - G.W. INV.

SAMPLERS (PRINT/SIGNATURE) T. Urban / R. Pekarski

LAB STL - Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Auto AIRBILL NO.: —

TESTS: Alkalinity (carb./bicarb.); Total Hardness; Total Coliform E. Coli; Het Plate count

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO_3; 4oz HDPE $Na_2S_2O_3$; 4oz HDPE $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz HDPE	4oz HDPE HNO_3	4oz HDPE $Na_2S_2O_3$	4oz HDPE $Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-05B-P6	4/12/04	1530	G	GW03-05B-P6	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES	AA - AMBIENT AIR SE - SEDIMENT SH - HAZARDOUS SOLID WASTE	SL - SLUDGE WP - DRINKING WATER WW - WASTE WATER	WG - GROUND WATER SO - SOIL DC - DRILL CUTTINGS	WL - LEACHATE GS - SOIL GAS WC - DRILLING WATER	WO - OCEAN WATER WS - SURFACE WATER WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE MS# - MATRIX SPIKE	(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)		

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tom Urban	4/13/04	700	Kevin Jakasa	4/13/04	7:04
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA GW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban / R. Pekarski

LAB STL - Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	TCL VOC (40mL VOA)	TOC (40mL VOA HCL)	TCL SVOC (1L Amber)	TCL Pest. (1L Amber)	TCL PCB's (1L Amber)	Dioxin (2,3,7,8 TCDD) (1L Amber)	metals Total Hg (1L 8oz HDPE HNO3)	TPS/TSS CL-/SO4 (1L 8oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P3	4/13/04	850	G	GW03-015A-P3	WG	5	3	2	⊗							N1	—	—	—
GW03-015A-P2	"	1100	G	GW03-015A-P2	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
GW03-015B-P4	"	1040	G	GW03-015B-P4	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
TB01-041304	4/13/04	—	—	TB01-041304	WQ	1	1								Trip Blank	TB1	—	—	—
GW03-015C-P7	4/13/04	1300	G	GW03-015C-P7	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tom Urban	4/13/04	1355	STL	4-13-04	1410
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
Samples on ice
contact Jim Lehnen
w/ any Ques.
856-5636

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

7.0°C

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 1117932.00006

SITE NAME NYPA - G.W. Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban / R. Pekarski

LAB STL-Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Courier AIRBILL NO.: —

TESTS: Alkalinity (carb/bicarb); Total hardness; Total Coliform E. Coli; Het. Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO_3; 4oz HDPE $Na_2S_2O_3$; 4oz HDPE $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz HDPE	4oz HDPE HNO_3	4oz HDPE $Na_2S_2O_3$	4oz HDPE $Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015A-P2	4/13/04	1100	G	GW03-015A-P2	WG	—	1	1	1	1						N1		—	—
GW03-015B-P4	4	1040	G	GW03-015B-P4	WG	—	1	1	1	1						N1		—	—
GW03-015C-P7	4/13/04	1300	G	GW03-015C-P7	WG	—	1	1	1	1						N1		—	—

MATRIX CODES: AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES: TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Tom Urban	4/13/04	1355	STL	4-13-04	14:00
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA - G.W. Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban / R. Pekarski

LAB STL - Buffalo

COOLER ____ of ____

PAGE 1 of 2

DELIVERY SERVICE: Auto AIRBILL NO.: —

TESTS / BOTTLE TYPE AND PRESERVATIVE

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	TCL VOC's (40mL VOA)	TOC (40mL HCl)	TCL SVOC (1L Amber)	TCL Pest (1L Amber)	TCL PCB (1L Amber)	Dioxin (2,3,7,8-TCDD) (1L Amber)	metals Total Hg (16oz HDPE HNO3)	TDS/TSS Cl-/SO4 (16oz HDPE)	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-015B-P5	4/13/04	1535	G	GW03-015B-P5	WG	18	3	2	2	2	1	2	1	1		N1	—	—	—
TB02-041304	4/13/04	—	-	TB02-041304	WQ	1	1								Trip Blank	TB2	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE; (# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Thomas J. Urban	4/14/04	7:32	Ron Pakosa	4/14/04	7:32
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS
Samples on ice
Contact Jim Lehren w/any Questions
856-5636 2.0°C

Distribution: Original accompanies shipment, copy to coordinator field files

URSF-075C/1 OF 1/CofCR/GCM

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CHAIN OF CUSTODY RECORD

URS

PROJECT NO. 11171932.00006

SITE NAME NYPA- GW Investigation

SAMPLERS (PRINT/SIGNATURE) T. Urban / R. Pekarski

LAB STL-Buffalo

COOLER ____ of ____

PAGE 2 of 2

DELIVERY SERVICE: Auto AIRBILL NO.: —

TESTS: Alkalinity (carb/bicarb); Total Hardness; Total Coliform E.coli; Het. Plate Count

BOTTLE TYPE AND PRESERVATIVE: 8oz HDPE; 4oz HDPE HNO_3; 4oz HDPE $Na_2S_2O_3$; 4oz HDPE $Na_2S_2O_3$

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO.# OF CONTAINERS	8oz HDPE	4oz HDPE HNO_3	4oz HDPE $Na_2S_2O_3$	4oz HDPE $Na_2S_2O_3$					REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (ERPIMS)
GW03-05B-P5	4/13/04	1535	G	GW03-05B-P5	WG	—	1	1	1	1						N1	—	—	—

MATRIX CODES
AA - AMBIENT AIR; SE - SEDIMENT; SH - HAZARDOUS SOLID WASTE; SL - SLUDGE; WP - DRINKING WATER; WW - WASTE WATER; WG - GROUND WATER; SO - SOIL; DC - DRILL CUTTINGS; WL - LEACHATE; GS - SOIL GAS; WC - DRILLING WATER; WO - OCEAN WATER; WS - SURFACE WATER; WQ - WATER FIELD QC; LH - HAZARDOUS LIQUID WASTE; LF - FLOATING/FREE PRODUCT ON GW TABLE

SAMPLE TYPE CODES
TB# - TRIP BLANK; SD# - MATRIX SPIKE DUPLICATE; RB# - RINSE BLANK; FR# - FIELD REPLICATE; N# - NORMAL ENVIRONMENTAL SAMPLE; MS# - MATRIX SPIKE
(# - SEQUENTIAL NUMBER (FROM 1 TO 9) TO ACCOMMODATE MULTIPLE SAMPLES IN A SINGLE DAY)

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME
Thomas J. Urban	4/14/04	7:32	Ken Jakubik	4/14/04	7:32
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME

SPECIAL INSTRUCTIONS

2.0C

Distribution: Original accompanies shipment, copy to coordinator field files

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METHODS SUMMARY

Job#: A04-3202,A04-3203,A04-3204,A04-3208,A04-3212,A04-3213, A04-3235,A04-3247,A04-3248,A04-3255,A04-3256,A04-3257

STL Project#: NY3A9122
SDG#: 0304GW
Site Name: NEW YORK POWER AUTHORITY

PARAMETER	ANALYTICAL METHOD
METHOD 8260 - TCL VOLATILE ORGANICS	SW8463 8260
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
METHOD 8290 - TCL DIOXINS & FURANS	SW8463 8290
METHOD 8081 - TCL PESTICIDES	SW8463 8081
METHOD 8082 - POLYCHLORINATED BIPHENYLS	SW8463 8082
Arsenic - Total	SW8463 6010
Cadmium - Total	SW8463 6010
Calcium - Total	SW8463 6010
Lead - Total	SW8463 6010
Magnesium - Total	SW8463 6010
Mercury - Total	SW8463 7470
Potassium - Total	SW8463 6010
Sodium - Total	SW8463 6010
Bicarbonate Alkalinity	MCAWW 310.1
Chloride	MCAWW 300.0
E Coli	SM18 9221
Sulfate	MCAWW 300.0
Total Alkalinity	MCAWW 310.1
Total Bacteria Coliform	SM18 9222B
Total Dissolved Solids	MCAWW 160.1
Total Hardness	MCAWW 130.2
Total Organic Carbon	MCAWW 415.1
Total Suspended Solids	MCAWW 160.2

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes",EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/4-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993)

SM18 "Standard Methods for the Examination of Water and Wastewater", 18th Edition

SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

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NON-CONFORMANCE SUMMARY

Job#: A04-3202,A04-3203,A04-3204,A04-3208,A04-3212,A04-3213,
A04-3235,A04-3247,A04-3248,A04-3255,A04-3256,A04-3257

STL Project#: NY3A9122
SDG#: 0304GW
Site Name: NEW YORK POWER AUTHORITY

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-3202
Sample Cooler(s) were received at the following temperature(s); 3 @ 2.0 °C
All samples were received in good condition.
A04-3203
Sample Cooler(s) were received at the following temperature(s); 3 @ 2.0 °C
All samples were received in good condition.
A04-3204
Sample Cooler(s) were received at the following temperature(s); 3@2.0 °C
All samples were received in good condition.
A04-3208
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
One TOC volume received empty for sample point GW03-015B-P6.
A04-3212
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.
A04-3213
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.
A04-3235
Sample Cooler(s) were received at the following temperature(s); 3@3 °C
All samples were received in good condition.
A04-3247
Sample Cooler(s) were received at the following temperature(s); 3@2.0 °C
All samples were received in good condition.

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A04-3248
Sample Cooler(s) were received at the following temperature(s); 3@2.0 °C
All samples were received in good condition.
A04-3255
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.
A04-3256
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.
A04-3257
Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC/MS Volatile Data

All volatile samples exhibited a pH of 7 at the time of analysis. The analysis was performed within 7 days of sampling, therefore there is no impact on data useability.

Initial calibration standard curve A4I0000247-1 exhibited the %RSD of several compounds as greater than 15%. However, the mean RSD of all compounds is 12.39%.

Initial calibration standard curve A4I0000219-1 exhibited the %RSD of the surrogate p-Bromofluorobenzene as greater than 15%. However, the mean RSD of all compounds is 9.10%.

Initial calibration standard curve A4I0000268-1 exhibited the %RSD of the compounds Methylene Chloride, Chloromethane, Vinyl Chloride and Chloroethane as greater than 15%. However, the mean RSD of all compounds is 8.01%.

As a result of low volume, the sample GW03-015A-P2 was analyzed from a vial containing headspace. The volatile organic results may be biased low and all positive detections and non-detections should be considered estimated.

The analyte Methylene Chloride was detected in Method Blank VBLK62 at a level below the project established reporting limit. No corrective action is necessary for any values in Method Blanks that are below the requested reporting limits.

GC/MS Semivolatile Data

Linear regression was used to calibrate analytes that were greater than 15% RSD in the initial calibration A4I0000139.

Dioxins and Furans were subcontracted to STL Knoxville. All data is included in this report as Appendix A.

GC Extractable Data

For method 8081 and 8082, the extracts for several samples required treatment with Copper prior to analysis due to the presence of elemental Sulfur. This is indicated for field samples and the associated batch quality control extracts in the injection logbook and on the individual report Form-1. The raw run data for any untreated extracts has been included in the raw quality control section of the data package.

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For method 8081, the recovery of surrogate Tetrachloro-m-xylene in sample GW03-015A-P2 is outside of established quality control limits due to the sample matrix. The recovery of surrogate Decachlorobiphenyl is within quality control criteria; no corrective action is required.

For method 8082, sample GW03-015B-P4 contains a low level positive for Aroclor 1248. The values for this Aroclor are not reported in the corresponding Matrix Spike and Matrix Spike Duplicate due to the spiked Aroclors obscurring the pattern present.

For method 8081, Heptachlor exhibited a percent difference greater than 15% from the expected amount in the associated continuing calibration analyzed on 04/19/04 at 08:37. The average of all analytes is within 15% and the associated laboratory quality control recoveries are compliant. No corrective action was required.

Metals Data

The recovery of sample GW03-015A-P1 Matrix Spike exhibited results below the quality control limits for Calcium. The sample result is more than four times greater than the spike added. The LFB is acceptable.

The recovery of sample GW03-015A-P1 Post Spike exhibited results below the quality control limits for Calcium. The recovery of sample GW03-015B-P6 Post Spike exhibited results above the quality control limits for Arsenic. The recovery of sample GW03-015B-P5 Post Spike exhibited results below the quality control limits for Calcium. The Serial Dilution of sample GW03-015A-P2 exceeded quality control limits for Potassium. However, the LFB was acceptable.

Wet Chemistry Data

Total Plate Count, E. Coli and Total Coliform were subcontracted to ACTS Testing Laboratories. All data is included in this report as Appendix A.

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The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000924

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 0304GW

Lab File ID: K7652 BFB Injection Date: 04/16/2004

Instrument ID: I50K BFB Injection Time: 21:38

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	23.7		
75	30.0 - 60.0% of mass 95	47.8		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	5.5		
173	Less than 2.0% of mass 174	0.2	(0.2)	1
174	50 - 120 % of mass 95	80.9		
175	5.0 - 9.0% of mass 174	4.5	(5.6)	1
176	95.0 - 101.0% of mass 174	81.2	(100.4)	1
177	5.0 - 9.0% of mass 176	4.2	(5.2)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0001260-1	K7653.RR	04/16/2004	22:13
2	MSB30	A4324707	K7655.RR	04/17/2004	00:04
3	VBLK30	A4324706	K7656.RR	04/17/2004	00:39
4	GW03-015A-P2	A4324701	K7660.RR	04/17/2004	02:55

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METHOD 8260 - AQUEOUS (30% RSD/ 20% D)

CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0001260-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 0304GW

Lab File Id: K7653.RR Calibration Date: 04/16/2004 Time: 22:13

Intrument ID: I50K Init. Calib. Date(s): 04/05/2004 04/05/2004

Heated Purge (Y/N): N Init. Calib. Times: 08:40 13:11

GC Column: DB-624 ID: 0.53(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0250	0.0366	0.0100	-46.400	100.00
Benzene	1.2000	1.1884	0.0100	1.000	100.00
Bromodichloromethane	0.6660	0.7294	0.0100	-9.500	100.00
Bromoform	0.4420	0.4804	0.1000	-8.700	100.00
Bromomethane	0.4040	0.1812	0.0100	55.100	100.00
2-Butanone	0.0530	0.0711	0.0100	-34.200	100.00
Methyl acetate	0.1140	0.1360	0.0100	-19.300	100.00
Cyclohexane	0.7900	0.8127	0.0100	-2.900	100.00
Methylcyclohexane	0.6310	0.6106	0.0100	3.200	100.00
Carbon Disulfide	1.2170	1.1625	0.0100	4.500	100.00
Carbon Tetrachloride	0.7090	0.7505	0.0100	-5.800	100.00
Chlorobenzene	1.1760	1.1665	0.3000	0.800	100.00
Chloroethane	0.3380	0.3613	0.0100	-6.900	100.00
Chloroform	0.8280	0.8869	0.0100	-7.100	20.00
Chloromethane	0.4910	0.4136	0.1000	15.800	100.00
Dibromochloromethane	0.4860	0.5425	0.0100	-11.600	100.00
1,2-Dibromo-3-chloropropane	0.0870	0.1232	0.0100	-41.600	100.00
1,2-Dibromoethane	0.3310	0.3694	0.0100	-11.600	100.00
1,2-Dichlorobenzene	1.3910	1.5851	0.0100	-14.000	100.00
1,3-Dichlorobenzene	1.8680	1.9919	0.0100	-6.600	100.00
1,4-Dichlorobenzene	1.8160	1.9816	0.0100	-9.100	100.00
Dichlorodifluoromethane	0.5450	0.4691	0.0100	13.900	100.00
1,1-Dichloroethane	0.8960	0.9540	0.1000	-6.500	100.00
1,2-Dichloroethane	0.3370	0.4111	0.0100	-22.000	100.00
1,1-Dichloroethene	0.3800	0.4011	0.0100	-5.600	100.00
cis-1,2-Dichloroethene	0.4150	0.4292	0.0100	-3.400	100.00
trans-1,2-Dichloroethene	0.4170	0.4244	0.0100	-1.800	100.00
1,2-Dichloropropane	0.4800	0.5106	0.0100	-6.400	20.00
cis-1,3-Dichloropropene	0.5500	0.5787	0.0100	-5.200	100.00
trans-1,3-Dichloropropene	0.4270	0.4630	0.0100	-8.400	100.00
Ethylbenzene	1.9210	1.8556	0.0100	3.400	20.00
2-Hexanone	0.1260	0.1715	0.0100	-36.100	100.00
Isopropylbenzene	3.1740	3.0766	0.0100	3.100	100.00
Methylene chloride	0.3440	0.3570	0.0100	-3.800	100.00
4-Methyl-2-pentanone	0.2070	0.2554	0.0100	-23.400	100.00
Styrene	1.0560	1.0743	0.0100	-1.700	100.00
1,1,2,2-Tetrachloroethane	0.5480	0.6392	0.3000	-16.600	100.00
Tetrachloroethene	0.8850	0.8272	0.0100	6.500	100.00
Toluene	0.9600	0.9707	0.0100	-1.100	20.00

5/12/04

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000845

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 0304GW

Lab File ID: L5427 BFB Injection Date: 04/14/2004

Instrument ID: I50L BFB Injection Time: 09:17

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.0		
75	30.0 - 60.0% of mass 95	46.5		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.8		
173	Less than 2.0% of mass 174	0.1	(0.1)	1
174	50 - 120 % of mass 95	80.1		
175	5.0 - 9.0% of mass 174	5.6	(7.0)	1
176	95.0 - 101.0% of mass 174	77.5	(96.7)	1
177	5.0 - 9.0% of mass 176	5.0	(6.4)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0001074-1	L5428.RR	04/14/2004	09:49
2	MSB42	A4320304	L5429.RR	04/14/2004	10:35
3	VBLK42	A4320303	L5430.RR	04/14/2004	11:07
4	TB01-0412-04	A4320302	L5441.RR	04/14/2004	16:59
5	GW03-015A-P1	A4320301	L5442.RR	04/14/2004	17:31

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METHOD 8260 - AQUEOUS (30% RSD/ 20% D) 343/3271

CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0001074-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 0304GW

Lab File Id: L5428.RR Calibration Date: 04/14/2004 Time: 09:49

Intrument ID: I50L Init. Calib. Date(s): 03/29/2004 03/29/2004

Heated Purge (Y/N): N Init. Calib. Times: 08:23 10:34

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0420	0.0415	0.0100	1.200	100.00
Benzene	1.0430	0.9981	0.0100	4.300	100.00
Bromodichloromethane	0.7490	0.6721	0.0100	10.300	100.00
Bromoform	0.5010	0.4365	0.1000	12.900	100.00
Bromomethane	0.2830	0.1748	0.0100	38.200	100.00
2-Butanone	0.0800	0.0723	0.0100	9.600	100.00
Methyl acetate	0.1760	0.1545	0.0100	12.200	100.00
Cyclohexane	0.5500	0.4749	0.0100	13.600	100.00
Methylcyclohexane	0.5900	0.4798	0.0100	18.700	100.00
Carbon Disulfide	1.1690	0.9487	0.0100	18.800	100.00
Carbon Tetrachloride	0.7360	0.6996	0.0100	4.900	100.00
Chlorobenzene	1.2060	1.0758	0.3000	10.800	100.00
Chloroethane	0.2460	0.2338	0.0100	5.000	100.00
Chloroform	0.7840	0.7351	0.0100	6.200	20.00
Chloromethane	0.2300	0.2316	0.1000	-0.700	100.00
Dibromochloromethane	0.6890	0.6213	0.0100	9.800	100.00
1,2-Dibromo-3-chloropropane	0.1580	0.1403	0.0100	11.200	100.00
1,2-Dibromoethane	0.4740	0.4326	0.0100	8.700	100.00
1,2-Dichlorobenzene	1.6670	1.5458	0.0100	7.300	100.00
1,3-Dichlorobenzene	1.8180	1.6782	0.0100	7.700	100.00
1,4-Dichlorobenzene	1.8960	1.7442	0.0100	8.000	100.00
Dichlorodifluoromethane	0.3630	0.3464	0.0100	4.600	100.00
1,1-Dichloroethane	0.8490	0.8127	0.1000	4.300	100.00
1,2-Dichloroethane	0.4340	0.4250	0.0100	2.100	100.00
1,1-Dichloroethene	0.3820	0.3686	0.0100	3.500	100.00
cis-1,2-Dichloroethene	0.4700	0.4474	0.0100	4.800	100.00
trans-1,2-Dichloroethene	0.4500	0.4257	0.0100	5.400	100.00
1,2-Dichloropropane	0.4250	0.3925	0.0100	7.600	20.00
cis-1,3-Dichloropropene	0.6460	0.5941	0.0100	8.000	100.00
trans-1,3-Dichloropropene	0.5580	0.4848	0.0100	13.100	100.00
Ethylbenzene	1.9070	1.6813	0.0100	11.800	20.00
2-Hexanone	0.1860	0.1530	0.0100	17.700	100.00
Isopropylbenzene	2.7610	2.6071	0.0100	5.600	100.00
Methylene chloride	0.4060	0.3890	0.0100	4.200	100.00
4-Methyl-2-pentanone	0.2690	0.2236	0.0100	16.900	100.00
Styrene	1.2070	1.1061	0.0100	8.400	100.00
1,1,2,2-Tetrachloroethane	0.7150	0.6303	0.3000	11.800	100.00
Tetrachloroethene	0.7950	0.7236	0.0100	9.000	100.00
Toluene	0.8580	0.7863	0.0100	8.400	20.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000889

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 0304GW

Lab File ID: L5448 BFB Injection Date: 04/15/2004

Instrument ID: I50L BFB Injection Time: 15:00

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.8		
75	30.0 - 60.0% of mass 95	50.3		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.9		
173	Less than 2.0% of mass 174	0.3	(0.3)	1
174	50 - 120 % of mass 95	84.3		
175	5.0 - 9.0% of mass 174	5.6	(6.7)	1
176	95.0 - 101.0% of mass 174	82.9	(98.3)	1
177	5.0 - 9.0% of mass 176	5.1	(6.2)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0001143-1	L5449.RR	04/15/2004	15:32
2	MSB43	A4320306	L5451.RR	04/15/2004	16:52
3	VBLK43	A4320305	L5452.RR	04/15/2004	17:24
4	GW03-015A-P1 DL	A4320301DL	L5453.RR	04/15/2004	18:09
5	GW03-015A-P1MS	A4320301MS	L5468.RR	04/16/2004	02:12
6	GW03-015A-P1SD	A4320301SD	L5469.RR	04/16/2004	02:44

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METHOD 8260 - AQUEOUS (30% RSD/ 20% D)

CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0001143-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 0304GW

Lab File Id: L5449.RR Calibration Date: 04/15/2004 Time: 15:32

Intrument ID: I50L Init. Calib. Date(s): 03/29/2004 03/29/2004

Heated Purge (Y/N): N Init. Calib. Times: 08:23 10:34

GC Column: DB-624 ID: 0.53 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0420	0.0411	0.0100	2.100	100.00
Benzene	1.0430	0.8742	0.0100	16.200	100.00
Bromodichloromethane	0.7490	0.6164	0.0100	17.700	100.00
Bromoform	0.5010	0.4457	0.1000	11.000	100.00
Bromomethane	0.2830	0.2374	0.0100	16.100	100.00
2-Butanone	0.0800	0.0753	0.0100	5.900	100.00
Methyl acetate	0.1760	0.1674	0.0100	4.900	100.00
Cyclohexane	0.5500	0.4738	0.0100	13.800	100.00
Methylcyclohexane	0.5900	0.4874	0.0100	17.400	100.00
Carbon Disulfide	1.1690	0.9982	0.0100	14.600	100.00
Carbon Tetrachloride	0.7360	0.6700	0.0100	9.000	100.00
Chlorobenzene	1.2060	0.9731	0.3000	19.300	100.00
Chloroethane	0.2460	0.2358	0.0100	4.100	100.00
Chloroform	0.7840	0.6801	0.0100	13.200	20.00
Chloromethane	0.2300	0.2544	0.1000	-10.600	100.00
Dibromochloromethane	0.6890	0.6110	0.0100	11.300	100.00
1,2-Dibromo-3-chloropropane	0.1580	0.1375	0.0100	13.000	100.00
1,2-Dibromoethane	0.4740	0.4259	0.0100	10.100	100.00
1,2-Dichlorobenzene	1.6670	1.3739	0.0100	17.600	100.00
1,3-Dichlorobenzene	1.8180	1.5198	0.0100	16.400	100.00
1,4-Dichlorobenzene	1.8960	1.5503	0.0100	18.200	100.00
Dichlorodifluoromethane	0.3630	0.4446	0.0100	-22.500	100.00
1,1-Dichloroethane	0.8490	0.7660	0.1000	9.800	100.00
1,2-Dichloroethane	0.4340	0.4039	0.0100	6.900	100.00
1,1-Dichloroethene	0.3820	0.3575	0.0100	6.400	100.00
cis-1,2-Dichloroethene	0.4700	0.4173	0.0100	11.200	100.00
trans-1,2-Dichloroethene	0.4500	0.4030	0.0100	10.400	100.00
1,2-Dichloropropane	0.4250	0.3498	0.0100	17.700	20.00
cis-1,3-Dichloropropene	0.6460	0.5379	0.0100	16.700	100.00
trans-1,3-Dichloropropene	0.5580	0.4604	0.0100	17.500	100.00
Ethylbenzene	1.9070	1.5470	0.0100	18.900	20.00
2-Hexanone	0.1860	0.1585	0.0100	14.800	100.00
Isopropylbenzene	2.7610	2.3116	0.0100	16.300	100.00
Methylene chloride	0.4060	0.3809	0.0100	6.200	100.00
4-Methyl-2-pentanone	0.2690	0.2379	0.0100	11.600	100.00
Styrene	1.2070	0.9965	0.0100	17.400	100.00
1,1,2,2-Tetrachloroethane	0.7150	0.6094	0.3000	14.800	100.00
Tetrachloroethene	0.7950	0.6775	0.0100	14.800	100.00
Toluene	0.8580	0.7238	0.0100	15.600	20.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000840

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 0304GW

Lab File ID: M9242 BFB Injection Date: 04/14/2004

Instrument ID: I50M BFB Injection Time: 10:38

GC Column: DB-624 ID: 0.53 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	26.0		
75	30.0 - 60.0% of mass 95	53.0		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.4		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	52.0		
175	5.0 - 9.0% of mass 174	3.1	(5.9)	1
176	95.0 - 101.0% of mass 174	52.3	(100.5)	1
177	5.0 - 9.0% of mass 176	2.6	(5.0)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0001069-1	M9243.RR	04/14/2004	11:05
2	MSB47	A4320804	M9244.RR	04/14/2004	11:47
3	VBLK47	A4320803	M9245.RR	04/14/2004	12:16
4	TB02-041204	A4320802	M9246.RR	04/14/2004	12:44
5	GW03-015B-P6	A4320801	M9249.RR	04/14/2004	14:11

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METHOD 8260 - AQUEOUS (30% RSD/ 20% D) 55/5271

CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0001069-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 0304GW

Lab File Id: M9243.RR Calibration Date: 04/14/2004 Time: 11:05

Intrument ID: I50M Init. Calib. Date(s): 04/09/2004 04/09/2004

Heated Purge (Y/N): N Init. Calib. Times: 12:58 18:31

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Acetone	0.0610	0.0519	0.0100	14.900	100.00
Benzene	1.6330	1.6655	0.0100	-2.000	100.00
Bromodichloromethane	0.4660	0.4860	0.0100	-4.300	100.00
Bromoform	0.2670	0.2718	0.1000	-1.800	100.00
Bromomethane	0.2150	0.2615	0.0100	-21.600	100.00
2-Butanone	0.1090	0.0930	0.0100	14.700	100.00
Methyl acetate	0.2050	0.1882	0.0100	8.200	100.00
Cyclohexane	0.8460	0.8052	0.0100	4.800	100.00
Methylcyclohexane	0.6840	0.6149	0.0100	10.100	100.00
Carbon Disulfide	1.3800	1.3344	0.0100	3.300	100.00
Carbon Tetrachloride	0.4230	0.4530	0.0100	-7.100	100.00
Chlorobenzene	1.1360	1.0137	0.3000	10.800	100.00
Chloroethane	0.2810	0.3174	0.0100	-13.000	100.00
Chloroform	0.6940	0.7610	0.0100	-9.600	20.00
Chloromethane	0.4940	0.6363	0.1000	-28.800	100.00
Dibromochloromethane	0.2830	0.2640	0.0100	6.700	100.00
1,2-Dibromo-3-chloropropane	0.0810	0.0862	0.0100	-6.400	100.00
1,2-Dibromoethane	0.2340	0.2037	0.0100	12.900	100.00
1,2-Dichlorobenzene	1.3740	1.2596	0.0100	8.300	100.00
1,3-Dichlorobenzene	1.5850	1.5002	0.0100	5.400	100.00
1,4-Dichlorobenzene	1.6600	1.5929	0.0100	4.000	100.00
Dichlorodifluoromethane	0.2800	0.2863	0.0100	-2.200	100.00
1,1-Dichloroethane	0.8070	0.8590	0.1000	-6.400	100.00
1,2-Dichloroethane	0.4240	0.4565	0.0100	-7.700	100.00
1,1-Dichloroethene	0.3130	0.3123	0.0100	0.200	100.00
cis-1,2-Dichloroethene	0.4230	0.4339	0.0100	-2.600	100.00
trans-1,2-Dichloroethene	0.3780	0.4075	0.0100	-7.800	100.00
1,2-Dichloropropane	0.4580	0.4567	0.0100	0.300	20.00
cis-1,3-Dichloropropene	0.6080	0.5784	0.0100	4.900	100.00
trans-1,3-Dichloropropene	0.4970	0.4815	0.0100	3.100	100.00
Ethylbenzene	2.0910	2.0559	0.0100	1.700	20.00
2-Hexanone	0.2130	0.1785	0.0100	16.200	100.00
Isopropylbenzene	3.8020	3.9753	0.0100	-4.600	100.00
Methylene chloride	0.3980	0.4119	0.0100	-3.500	100.00
4-Methyl-2-pentanone	0.3020	0.2482	0.0100	17.800	100.00
Styrene	1.2340	1.0879	0.0100	11.800	100.00
1,1,2,2-Tetrachloroethane	0.6290	0.6620	0.3000	-5.200	100.00
Tetrachloroethene	0.3980	0.3465	0.0100	12.900	100.00
Toluene	1.1350	1.1313	0.0100	0.300	20.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000841

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 0304GW

Lab File ID: N5340 BFB Injection Date: 04/14/2004

Instrument ID: HP5973N BFB Injection Time: 21:10

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.2		
75	30.0 - 60.0% of mass 95	47.9		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.5		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	69.8		
175	5.0 - 9.0% of mass 174	5.1	(7.3)	1
176	95.0 - 101.0% of mass 174	66.5	(95.3)	1
177	5.0 - 9.0% of mass 176	4.3	(6.5)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0001070-1	N5341.RR	04/14/2004	21:27
2	MSB60	A4324709	N5342.RR	04/14/2004	21:59
3	VBLK60	A4324708	N5344.RR	04/14/2004	22:58
4	TB02-041304	A4325502	N5345.RR	04/14/2004	23:28
5	TB01-041304	A4324705	N5346.RR	04/14/2004	23:57
6	GW03-015B-P5	A4325501	N5350.RR	04/15/2004	01:54
7	GW03-015B-P4	A4324702	N5360.RR	04/15/2004	06:46
8	GW03-015C-P7	A4324703	N5361.RR	04/15/2004	07:15
9	GW03-015A-P3	A4324704	N5362.RR	04/15/2004	07:44

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METHOD 8260 - AQUEOUS (30% RSD/ 20% D/

CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0001070-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 0304GW

Lab File Id: N5341.RR Calibration Date: 04/14/2004 Time: 21:27

Intrument ID: HP5973N Init. Calib. Date(s): 04/14/2004 04/14/2004

Heated Purge (Y/N): N Init. Calib. Times: 17:41 20:38

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.3310	0.3233	0.1000	2.300	100.00
Bromomethane	0.1770	0.1818	0.0100	-2.700	100.00
Vinyl chloride	0.3140	0.3281	0.0100	-4.500	20.00
Chloroethane	0.1460	0.1529	0.0100	-4.700	100.00
Methylene chloride	0.3640	0.3531	0.0100	3.000	100.00
Acetone	0.0330	0.0343	0.0100	-3.900	100.00
Carbon Disulfide	1.4250	1.4546	0.0100	-2.100	100.00
1,1-Dichloroethene	0.3570	0.3537	0.0100	0.900	100.00
1,1-Dichloroethane	0.7670	0.7705	0.1000	-0.500	100.00
cis-1,2-Dichloroethene	0.4150	0.4188	0.0100	-0.900	100.00
trans-1,2-Dichloroethene	0.4080	0.4077	0.0100	0.100	100.00
Chloroform	0.6600	0.6596	0.0100	0.100	20.00
1,2-Dichloroethane	0.3230	0.3272	0.0100	-1.300	100.00
2-Butanone	0.0530	0.0552	0.0100	-4.200	100.00
1,1,1-Trichloroethane	0.6190	0.6175	0.0100	0.200	100.00
Carbon Tetrachloride	0.5070	0.5134	0.0100	-1.300	100.00
Bromodichloromethane	0.4120	0.4152	0.0100	-0.800	100.00
1,2-Dichloropropane	0.3840	0.3936	0.0100	-2.500	20.00
cis-1,3-Dichloropropene	0.5180	0.5300	0.0100	-2.300	100.00
Trichloroethene	0.4210	0.4194	0.0100	0.400	100.00
Dibromochloromethane	0.2550	0.2622	0.0100	-2.800	100.00
1,1,2-Trichloroethane	0.1950	0.1998	0.0100	-2.500	100.00
Benzene	1.6820	1.6892	0.0100	-0.400	100.00
trans-1,3-Dichloropropene	0.6390	0.6553	0.0100	-2.600	100.00
Bromoform	0.2500	0.2591	0.1000	-3.600	100.00
4-Methyl-2-pentanone	0.1430	0.1530	0.0100	-7.000	100.00
2-Hexanone	0.0920	0.0997	0.0100	-8.400	100.00
Tetrachloroethene	0.4840	0.4931	0.0100	-1.900	100.00
1,1,2,2-Tetrachloroethane	0.4670	0.4801	0.3000	-2.800	100.00
Toluene	1.2580	1.2658	0.0100	-0.600	20.00
Chlorobenzene	1.2140	1.2168	0.3000	-0.200	100.00
Ethylbenzene	2.3530	2.3424	0.0100	0.500	20.00
Styrene	1.3180	1.3312	0.0100	-1.000	100.00
Total Xylenes	0.8500	0.8553	0.0100	-0.600	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3610	0.3762	0.0100	-4.200	100.00
1,2,4-Trichlorobenzene	1.3690	1.3563	0.0100	0.900	100.00
1,2-Dibromo-3-chloropropane	0.0800	0.0783	0.0100	2.100	100.00
1,2-Dibromoethane	0.2060	0.2102	0.0100	-2.000	100.00
1,2-Dichlorobenzene	1.5760	1.5894	0.0100	-0.900	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000886

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 0304GW

Lab File ID: N5363 BFB Injection Date: 04/15/2004

Instrument ID: HP5973N BFB Injection Time: 09:47

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.9		
75	30.0 - 60.0% of mass 95	47.6		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	6.2		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	67.3		
175	5.0 - 9.0% of mass 174	4.8	(7.1)	1
176	95.0 - 101.0% of mass 174	66.0	(98.1)	1
177	5.0 - 9.0% of mass 176	4.1	(6.2)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0001141-1	N5364.RR	04/15/2004	10:55
2	MSB61	A4324711	N5366.RR	04/15/2004	12:04
3	VBLK61	A4324710	N5367.RR	04/15/2004	12:46
4	GW03-015C-P7 DL	A4324703DL	N5371.RR	04/15/2004	14:43

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METHOD 8260 - AQUEOUS (30% RSD/ 20% D) 300/5271

CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0001141-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 0304GW

Lab File Id: N5364.RR Calibration Date: 04/15/2004 Time: 10:55

Intrument ID: HP5973N Init. Calib. Date(s): 04/14/2004 04/14/2004

Heated Purge (Y/N): N Init. Calib. Times: 17:41 20:38

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.3310	0.3312	0.1000	-0.100	100.00
Bromomethane	0.1770	0.1103	0.0100	37.700	100.00
Vinyl chloride	0.3140	0.3698	0.0100	-17.800	20.00
Chloroethane	0.1460	0.1770	0.0100	-21.200	100.00
Methylene chloride	0.3640	0.3303	0.0100	9.200	100.00
Acetone	0.0330	0.0310	0.0100	6.100	100.00
Carbon Disulfide	1.4250	1.4138	0.0100	0.800	100.00
1,1-Dichloroethene	0.3570	0.3311	0.0100	7.200	100.00
1,1-Dichloroethane	0.7670	0.7708	0.1000	-0.500	100.00
cis-1,2-Dichloroethene	0.4150	0.3912	0.0100	5.700	100.00
trans-1,2-Dichloroethene	0.4080	0.3911	0.0100	4.100	100.00
Chloroform	0.6600	0.6419	0.0100	2.700	20.00
1,2-Dichloroethane	0.3230	0.3135	0.0100	2.900	100.00
2-Butanone	0.0530	0.0473	0.0100	10.800	100.00
1,1,1-Trichloroethane	0.6190	0.5948	0.0100	3.900	100.00
Carbon Tetrachloride	0.5070	0.5032	0.0100	0.800	100.00
Bromodichloromethane	0.4120	0.3868	0.0100	6.100	100.00
1,2-Dichloropropane	0.3840	0.3728	0.0100	2.900	20.00
cis-1,3-Dichloropropene	0.5180	0.4652	0.0100	10.200	100.00
Trichloroethene	0.4210	0.4020	0.0100	4.500	100.00
Dibromochloromethane	0.2550	0.2426	0.0100	4.900	100.00
1,1,2-Trichloroethane	0.1950	0.1822	0.0100	6.600	100.00
Benzene	1.6820	1.6055	0.0100	4.500	100.00
trans-1,3-Dichloropropene	0.6390	0.5912	0.0100	7.500	100.00
Bromoform	0.2500	0.2357	0.1000	5.700	100.00
4-Methyl-2-pentanone	0.1430	0.1342	0.0100	6.200	100.00
2-Hexanone	0.0920	0.0857	0.0100	6.800	100.00
Tetrachloroethene	0.4840	0.4859	0.0100	-0.400	100.00
1,1,2,2-Tetrachloroethane	0.4670	0.4173	0.3000	10.600	100.00
Toluene	1.2580	1.2175	0.0100	3.200	20.00
Chlorobenzene	1.2140	1.1607	0.3000	4.400	100.00
Ethylbenzene	2.3530	2.2974	0.0100	2.400	20.00
Styrene	1.3180	1.2567	0.0100	4.600	100.00
Total Xylenes	0.8500	0.8208	0.0100	3.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3610	0.3707	0.0100	-2.700	100.00
1,2,4-Trichlorobenzene	1.3690	1.2212	0.0100	10.800	100.00
1,2-Dibromo-3-chloropropane	0.0800	0.0685	0.0100	14.400	100.00
1,2-Dibromoethane	0.2060	0.1858	0.0100	9.800	100.00
1,2-Dichlorobenzene	1.5760	1.4673	0.0100	6.900	100.00

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL Buffalo Contract: _____ Tune ID: A4T0000887

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 0304GW

Lab File ID: N5384 BFB Injection Date: 04/15/2004

Instrument ID: HP5973N BFB Injection Time: 22:44

GC Column: DB-624 ID: 0.25 (mm) Heated Purge: (Y/N): N

m/e	ION Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	20.2		
75	30.0 - 60.0% of mass 95	49.7		
95	Base peak, 100% relative abundance	100.0		
96	5.0 - 9.0% of mass 95	7.2		
173	Less than 2.0% of mass 174	0.0	(0.0)	1
174	50 - 120 % of mass 95	72.4		
175	5.0 - 9.0% of mass 174	4.9	(6.7)	1
176	95.0 - 101.0% of mass 174	70.7	(97.7)	1
177	5.0 - 9.0% of mass 176	4.6	(6.5)	2

1-Value is % mass 174 2-Value is % mass 176

This Tune Applies to the Following Samples, MS, MSD, Blanks, and Standards:

	Client Sample No.	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
1	VSTD010	A4C0001142-1	N5385.RR	04/15/2004	23:12
2	MSB62	A4325506	N5387.RR	04/16/2004	00:25
3	VBLK62	A4325505	N5388.RR	04/16/2004	00:54
4	GW03-015B-P5 DL	A4325501DL	N5389.RR	04/16/2004	01:24

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0001142-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 0304GW

Lab File Id: N5385.RR Calibration Date: 04/15/2004 Time: 23:12

Intrument ID: HP5973N Init. Calib. Date(s): 04/14/2004 04/14/2004

Heated Purge (Y/N): N Init. Calib. Times: 17:41 20:38

GC Column: DB-624 ID: 0.25(mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
Chloromethane	0.3310	0.3233	0.1000	2.300	100.00
Bromomethane	0.1770	0.1273	0.0100	28.100	100.00
Vinyl chloride	0.3140	0.3366	0.0100	-7.200	20.00
Chloroethane	0.1460	0.1672	0.0100	-14.500	100.00
Methylene chloride	0.3640	0.3637	0.0100	0.100	100.00
Acetone	0.0330	0.0365	0.0100	-10.600	100.00
Carbon Disulfide	1.4250	1.3613	0.0100	4.500	100.00
1,1-Dichloroethene	0.3570	0.3490	0.0100	2.200	100.00
1,1-Dichloroethane	0.7670	0.8234	0.1000	-7.400	100.00
cis-1,2-Dichloroethene	0.4150	0.4180	0.0100	-0.700	100.00
trans-1,2-Dichloroethene	0.4080	0.4101	0.0100	-0.500	100.00
Chloroform	0.6600	0.6837	0.0100	-3.600	20.00
1,2-Dichloroethane	0.3230	0.3537	0.0100	-9.500	100.00
2-Butanone	0.0530	0.0601	0.0100	-13.400	100.00
1,1,1-Trichloroethane	0.6190	0.6162	0.0100	0.500	100.00
Carbon Tetrachloride	0.5070	0.5236	0.0100	-3.300	100.00
Bromodichloromethane	0.4120	0.4303	0.0100	-4.400	100.00
1,2-Dichloropropane	0.3840	0.4178	0.0100	-8.800	20.00
cis-1,3-Dichloropropene	0.5180	0.5348	0.0100	-3.200	100.00
Trichloroethene	0.4210	0.4216	0.0100	-0.100	100.00
Dibromochloromethane	0.2550	0.2691	0.0100	-5.500	100.00
1,1,2-Trichloroethane	0.1950	0.2051	0.0100	-5.200	100.00
Benzene	1.6820	1.7202	0.0100	-2.300	100.00
trans-1,3-Dichloropropene	0.6390	0.6619	0.0100	-3.600	100.00
Bromoform	0.2500	0.2725	0.1000	-9.000	100.00
4-Methyl-2-pentanone	0.1430	0.1616	0.0100	-13.000	100.00
2-Hexanone	0.0920	0.1070	0.0100	-16.300	100.00
Tetrachloroethene	0.4840	0.4815	0.0100	0.500	100.00
1,1,2,2-Tetrachloroethane	0.4670	0.4955	0.3000	-6.100	100.00
Toluene	1.2580	1.2749	0.0100	-1.300	20.00
Chlorobenzene	1.2140	1.2164	0.3000	-0.200	100.00
Ethylbenzene	2.3530	2.3526	0.0100	0.000	20.00
Styrene	1.3180	1.3312	0.0100	-1.000	100.00
Total Xylenes	0.8500	0.8533	0.0100	-0.400	100.00
1,1,2-Trichloro-1,2,2-trifluoro	0.3610	0.3600	0.0100	0.300	100.00
1,2,4-Trichlorobenzene	1.3690	1.3497	0.0100	1.400	100.00
1,2-Dibromo-3-chloropropane	0.0800	0.0844	0.0100	-5.500	100.00
1,2-Dibromoethane	0.2060	0.2115	0.0100	-2.700	100.00
1,2-Dichlorobenzene	1.5760	1.5790	0.0100	-0.200	100.00

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CONTINUING CALIBRATION CHECK

Lab Name: STL Buffalo Contract: _____ Lab Samp ID: A4C0001142-1

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No: 0304GW

Lab File Id: N5385.RR Calibration Date: 04/15/2004 Time: 23:12

Intrument ID: HP5973N Init. Calib. Date(s): 04/14/2004 04/14/2004

Heated Purge (Y/N): N Init. Calib. Times: 17:41 20:38

GC Column: DB-624 ID: 0.25 (mm)

COMPOUND	AVG RRF	RRF10	MIN RRF	% D	MAX % D
1,3-Dichlorobenzene	1.9080	1.9251	0.0100	-0.900	100.00
1,4-Dichlorobenzene	1.8780	1.8769	0.0100	0.100	100.00
Cyclohexane	0.7610	0.7693	0.0100	-1.100	100.00
Dichlorodifluoromethane	0.4830	0.3474	0.0100	28.100	100.00
Methyl acetate	0.1070	0.1115	0.0100	-4.200	100.00
Trichlorofluoromethane	0.4090	0.4521	0.0100	-10.500	100.00
Methyl tert butyl ether	0.4910	0.5028	0.0100	-2.400	100.00
Isopropylbenzene	4.8380	4.7898	0.0100	1.000	100.00
Methylcyclohexane	0.7250	0.7024	0.0100	3.100	100.00
Toluene-D8	1.4940	1.4928	0.0100	0.100	100.00
p-Bromofluorobenzene	0.3560	0.3536	0.0100	0.700	100.00
1,2-Dichloroethane-D4	0.2210	0.2379	0.0100	-7.600	100.00

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METHOD 8081 - TCL PESTICIDES
WATER SURROGATE RECOVERY

1035/3271

Lab Name: STL Buffalo Contract: _____

Lab Code: RECNY Case No.: _____ SAS No.: _____ SDG No.: 0304GW

GC Column(1): RTXCLPI ID: 0.53 (mm)

	Client Sample ID	DCBP %REC	#	TCMX %REC	#							TOT OUT
1	GW03-015A-P1	78		94								0
2	GW03-015A-P1MS	83		87								0
3	GW03-015A-P1SD	86		100								0
4	GW03-015A-P2	42		24	*							1
5	GW03-015B-P4	56		72								0
6	GW03-015B-P5	75		80								0
7	GW03-015B-P6	86		83								0
8	GW03-015C-P7	70		72								0
9	Matrix Spike Blank	80		60								0
10	Matrix Spike Blank	85		84								0
11	Matrix Spike Blank	56		80								0
12	Matrix Spike Blk Dup	53		74								0
13	Method Blank	70		70								0
14	Method Blank	91		76								0
15	Method Blank	52		71								0

	QC LIMITS
(DCBP) = Decachlorobiphenyl	(28-132)
(TCMX) = Tetrachloro-m-xylene	(36-132)

\# Column to be used to flag recovery values
* Values outside of contract required QC limits
D Surrogates diluted out

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FORM II - GC EXT

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10A
PESTICIDE IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

SAMPLE NO.

GW03-015B-P5

Lab Name: STL Buffalo

Case No.:

SDG No.: 0304GW

Lab Sample ID : A4325501

Dates(s) Analyzed: 04/19/2004 04/19/2004

Instrument ID : HP5890-18

GC Column(1): RTXCLP1 ID: 0.53(mm) GC Column(2): RTXCLP2 ID: 0.53(mm)

ANALYTE	COL	RT	DAILY RT WINDOW FROM	DAILY RT WINDOW TO	CONC.	%D
gamma-BHC	1	13.07	12.99	13.09	0.031	35.5
	2	12.87	12.82	12.92	0.020	

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FORM X PEST

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BLANKS

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 0304GW

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Mercury	0.1	U	-0.1		0.1	U	-0.1		-0.205		CV

Affects ISB.P5 only
5/13/04

Comments:

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 0304GW

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 4/16/2004 End Date: 4/16/2004

Sample ID.	D/F	Time	% R	Analytes																								
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ICV	1.00	11:20																X									
ICB	1.00	11:21																X									
CRA	1.00	11:22																X									
GW03-015B-P5	1.00	11:23																X									
ZZZZZZ	1.00	11:24																									
ZZZZZZ	1.00	11:26																									
ZZZZZZ	1.00	11:27																									
ZZZZZZ	1.00	11:29																									
ZZZZZZ	1.00	11:30																									
ZZZZZZ	1.00	11:31																									
ZZZZZZ	1.00	11:32																									
ZZZZZZ	1.00	11:34																									
ZZZZZZ	1.00	11:35																									
CCV	1.00	11:37																X									
CCB	1.00	11:38																X									
ZZZZZZ	1.00	11:39																									
ZZZZZZ	1.00	11:40																									
ZZZZZZ	1.00	11:42																									
ZZZZZZ	1.00	11:43																									
ZZZZZZ	1.00	11:44																									
ZZZZZZ	1.00	11:45																									
ZZZZZZ	1.00	11:46																									
ZZZZZZ	1.00	11:47																									
ZZZZZZ	1.00	11:49																									
LCS	1.00	11:50																X									
CCV	1.00	11:51																X									
CCB	1.00	11:52																X									
ZZZZZZ	1.00	11:53																									
ZZZZZZ	1.00	11:54																									
ZZZZZZ	1.00	11:55																									
ZZZZZZ	1.00	11:56																									
ZZZZZZ	1.00	11:58																									
ZZZZZZ	1.00	11:59																									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ANALYSIS RUN LOG

Contract: NY03-281

Lab Code: STLBFLO Case No.: SAS No.: SDG No.: 0304GW

Instrument ID Number: LEEMAN PS200II Method: CV

Start Date: 4/16/2004 End Date: 4/16/2004

Sample ID.	D/F	Time	% R	Analytes																							
				AL	SB	AS	BA	BE	CD	CA	CR	CO	CU	FE	PB	MG	MN	HG	NI	K	SE	AG	NA	TL	V	ZN	CN
ZZZZZZ	1.00	12:42																									
ZZZZZZ	1.00	12:44																									
ZZZZZZ	1.00	12:45																									
ZZZZZZ	1.00	12:46																									
ZZZZZZ	1.00	12:47																									
ZZZZZZ	1.00	12:49																									
ZZZZZZ	1.00	12:50																									
CCV	1.00	12:51																X									
CCB	1.00	12:52																X									
ZZZZZZ	1.00	12:53																									
ZZZZZZ	1.00	12:54																									
ZZZZZZ	1.00	12:56																									
ZZZZZZ	1.00	12:57																									
ZZZZZZ	1.00	12:59																									
ZZZZZZ	1.00	13:00																									
ZZZZZZ	1.00	13:01																									
ZZZZZZ	1.00	13:02																									
ZZZZZZ	1.00	13:03																									
ZZZZZZ	1.00	13:05																									
CCV	1.00	13:06																X									
CCB	1.00	13:07																X									
ZZZZZZ	1.00	13:09																									
ZZZZZZ	1.00	13:10																									
Method Blank	1.00	13:11																X									
ZZZZZZ	1.00	13:12																									
ZZZZZZ	1.00	13:14																									
ZZZZZZ	1.00	13:15																									
CCV	1.00	13:16																X									
CCB	1.00	13:17																X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

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ICP SERIAL DILUTIONS

SAMPLE NO.

GW03-015A-P2L

Contract: NY03-281

Lab Code: STLBFLO Case No.: _____ SAS No.: _____ SDG NO.: 0304GW

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	8.22		50.00	U	100.0		P
Cadmium	1.00	U	5.00	U			P
Calcium	5312430.00		5525770.00		4.0		P
Lead	6.00	U	30.00	U			P
Magnesium	1660590.00		1664210.00		0.2		P
Potassium	256170.00		286340 500000.00	U	11.8 ~~100.0~~	E	P
Sodium	14237130.00		13597650.00		4.5		P

5/13/04 pm

Comments: _____

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APPENDIX M8

SUMMARY OF ANALYTICAL RESULTS

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-001	SW03-001	SW03-001	SW03-001	SW03-002
Sample ID		SW03-001	SW03-001	SW03-001	SW03-001	SW03-002
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	11/24/03	03/08/04	11/25/03
Parameter	**Units**					
Volatile Organic Compounds						
Acetone	UG/L	2.4 J	NA			
Carbon Disulfide	UG/L	1.1	NA			
Semivolatile Organic Compounds						
bis(2-Ethylhexyl)phthalate	UG/L		NA			
Phenol	UG/L		NA			
Pesticides						
4,4-DDT	UG/L		NA			
delta-BHC	UG/L		NA			
Metals						
Calcium	UG/L	60,800	NA	58,700	33,200	39,500
Lead	UG/L		NA			
Magnesium	UG/L	22,600	NA	21,500	12,100	13,800
Potassium	UG/L	2,380	NA	2,730	2,750	2,920
Sodium	UG/L	23,800	NA	24,500	28,000	22,700
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	117	NA	148	75.3	89.0
Alkalinity, Total (as CaCO3)	MG/L	117	NA	148	75.3	89.0
Chloride	MG/L	35.8	NA	41.1	32.1	40.4
Hardness	MG/L	290	NA	292	136	220
Monomethyl Mercury	NG/L	NA	0.085 B	0.086 B	0.250	0.555
Sulfate (as SO4)	MG/L	85.9	NA	92.4	32.0	55.1
Total Dissolved Solids	MG/L	318	NA	317	201	233
Total Organic Carbon (TOC)	MG/L	1.4	NA	4.0	7.4	10.1

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:52:36 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-001	SW03-001	SW03-001	SW03-001	SW03-002
Sample ID		SW03-001	SW03-001	SW03-001	SW03-001	SW03-002
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	10/28/03	11/24/03	03/08/04	11/25/03
Parameter	Units					
Miscellaneous Parameters						
Total Suspended Solids	MG/L		NA		10.0	13.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1300	NA	2,700 J	3200	5400
Total Coliform	C/100 ML	18000	NA	360 J	1600	1100
Fecal Coliform	C/100 ML	NA	NA			

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:52:37 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-002	SW03-003	SW03-004	SW03-004	SW03-004
Sample ID		SW03-002	SW03-003	SW03-004	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	03/09/04	10/08/03	10/28/03	11/25/03
Parameter	Units					
Volatile Organic Compounds						
Acetone	UG/L				NA	
Carbon Disulfide	UG/L				NA	
Semivolatile Organic Compounds						
bis(2-Ethylhexyl)phthalate	UG/L				NA	
Phenol	UG/L				NA	
Pesticides						
4,4-DDT	UG/L			R	NA	
delta-BHC	UG/L				NA	
Metals						
Calcium	UG/L	28,600 J	29,200 J	107,000	NA	82,100
Lead	UG/L			24.4	NA	16.8
Magnesium	UG/L	10,000 J	10,800 J	31,000	NA	27,000
Potassium	UG/L	2,360	2,050	4,910	NA	11,800
Sodium	UG/L	29,000 J	12,800 J	2,510	NA	4,960
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	71.5	85.6	218	NA	211
Alkalinity, Total (as CaCO3)	MG/L	71.5	85.6	218	NA	211
Chloride	MG/L	52.7	16.0	2.2	NA	15.2
Hardness	MG/L	111	124	830	NA	410
Monomethyl Mercury	NG/L	0.197	0.206	NA	0.120 B	1.590
Sulfate (as SO4)	MG/L	24.2	21.8	201 J	NA	92.0
Total Dissolved Solids	MG/L	226	211	534	NA	388
Total Organic Carbon (TOC)	MG/L	5.2	5.6	21.3	NA	23.1

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:52:40 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-002	SW03-003	SW03-004	SW03-004	SW03-004
Sample ID		SW03-002	SW03-003	SW03-004	SW03-004	SW03-004
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	03/09/04	10/08/03	10/28/03	11/25/03
Parameter	Units					
Miscellaneous Parameters						
Total Suspended Solids	MG/L	12.0	7.0	457	NA	39.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	930	830	31000	NA	110000
Total Coliform	C/100 ML	540 J	320	2000	NA	94000
Fecal Coliform	C/100 ML	40 J		NA	NA	100

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:52:45 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-004	SW03-004	SW03-005	SW03-005	SW03-005
Sample ID		SW03-004	SW03-004	SW03-005	SW03-005	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	03/10/04	10/09/03	11/24/03	03/08/04
Parameter	**Units**					
Volatile Organic Compounds						
Acetone	UG/L		NA			
Carbon Disulfide	UG/L		NA			
Semivolatile Organic Compounds						
bis(2-Ethylhexyl)phthalate	UG/L		NA			
Phenol	UG/L		NA			
Pesticides						
4,4-DDT	UG/L		NA			
delta-BHC	UG/L		NA			
Metals						
Calcium	UG/L	28,800 J	NA	85,900	89,000	43,500
Lead	UG/L		NA			
Magnesium	UG/L	10,400 J	NA	30,900	32,200	16,000
Potassium	UG/L	2,090	NA	2,520	2,980 J	3,100
Sodium	UG/L	12,100 J	NA	56,600	53,000 J	26,600
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	83.0	NA	215	218	99.9
Alkalinity, Total (as CaCO3)	MG/L	83.0	NA	215	218	99.9
Chloride	MG/L	5.0	NA	83.6	80.0	44.1
Hardness	MG/L	115	NA	368	340	148
Monomethyl Mercury	NG/L	0.160	NA			0.185
Sulfate (as SO4)	MG/L	14.3	NA	90.8	108	36.4
Total Dissolved Solids	MG/L	143	NA	546	492	273
Total Organic Carbon (TOC)	MG/L	5.2	NA	3.2	3.0	5.8

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:52:48 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-004	SW03-004	SW03-005	SW03-005	SW03-005
Sample ID		SW03-004	SW03-004	SW03-005	SW03-005	SW03-005
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	03/10/04	10/09/03	11/24/03	03/08/04
Parameter	Units					
Miscellaneous Parameters						
Total Suspended Solids	MG/L	5.0	NA			9.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	590	1500	1200	3500
Total Coliform	C/100 ML	NA	120	120	880	2000
Fecal Coliform	C/100 ML	NA		NA	20	100

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:52:51 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-006	SW03-006	SW03-006	SW03-007	SW03-007
Sample ID		SW03-006	SW03-006	SW03-006	SW03-007	SW03-007
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	11/24/03	03/09/04	10/07/03	11/24/03
Parameter	**Units**					
Volatile Organic Compounds						
Acetone	UG/L					
Carbon Disulfide	UG/L					
Semivolatile Organic Compounds						
bis(2-Ethylhexyl)phthalate	UG/L					
Phenol	UG/L					
Pesticides						
4,4-DDT	UG/L					
delta-BHC	UG/L		0.040 J			
Metals						
Calcium	UG/L	34,800	35,800	35,300	34,000	34,400
Lead	UG/L					
Magnesium	UG/L	8,910	9,100	8,530	8,580	8,800
Potassium	UG/L	1,640	2,020 J	2,010	1,600	1,920 J
Sodium	UG/L	11,000 J	11,400 J	16,900	10,500 J	10,600 J
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	90.2	101	92.4	71.5	95.0
Alkalinity, Total (as CaCO3)	MG/L	90.2	101	92.4	71.5	95.0
Chloride	MG/L	17.2	20.8	22.6	16.6	18.2
Hardness	MG/L	127	132	124	211	128
Monomethyl Mercury	NG/L					
Sulfate (as SO4)	MG/L	25.8	27.6	27.7	24.6	25.6
Total Dissolved Solids	MG/L	146	163	169	140	153
Total Organic Carbon (TOC)	MG/L	1.2	2.0	1.8	1.5	1.8

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:52:55 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-006	SW03-006	SW03-006	SW03-007	SW03-007
Sample ID		SW03-006	SW03-006	SW03-006	SW03-007	SW03-007
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/07/03	11/24/03	03/09/04	10/07/03	11/24/03
Parameter	Units					
Miscellaneous Parameters						
Total Suspended Solids	MG/L				5.0	
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	360	620	970	740	540
Total Coliform	C/100 ML	180	690	1000		
Fecal Coliform	C/100 ML	NA	20	80	NA	20

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:52:59 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-007	SW03-008	SW03-008	SW03-008	SW03-009
Sample ID		SW03-007	SW03-008	SW03-008	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	10/07/03	11/25/03	03/09/04	10/07/03
Parameter	**Units**					
Volatile Organic Compounds						
Acetone	UG/L					
Carbon Disulfide	UG/L					
Semivolatile Organic Compounds						
bis(2-Ethylhexyl)phthalate	UG/L				9 J	
Phenol	UG/L					
Pesticides						
4,4-DDT	UG/L				0.047 J	
delta-BHC	UG/L					
Metals						
Calcium	UG/L	34,200	33,900	35,300	33,800	30,300
Lead	UG/L					
Magnesium	UG/L	8,440	8,620	9,590	8,490	7,670
Potassium	UG/L	1,670	1,600	2,510	1,540	1,470
Sodium	UG/L	12,000	10,100 J	9,600	10,500	9,880 J
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	94.4	88.7	93.0	93.1	76.0
Alkalinity, Total (as CaCO3)	MG/L	94.4	88.7	93.0	93.1	76.0
Chloride	MG/L	33.0	16.7	18.0	33.2	22.4
Hardness	MG/L	120	179	140	111	209
Monomethyl Mercury	NG/L			0.140 B		
Sulfate (as SO4)	MG/L	27.1	24.0	24.8	29.4	24.6
Total Dissolved Solids	MG/L	160	142	148	144	146
Total Organic Carbon (TOC)	MG/L	1.6	1.3	1.6	1.3	1.4

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:53:03 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-007	SW03-008	SW03-008	SW03-008	SW03-009
Sample ID		SW03-007	SW03-008	SW03-008	SW03-008	SW03-009
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	10/07/03	11/25/03	03/09/04	10/07/03
Parameter	Units					
Miscellaneous Parameters						
Total Suspended Solids	MG/L	6.0		47.0	6.0	
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	350	740	740	21 J	1900
Total Coliform	C/100 ML	430	860	40		14000
Fecal Coliform	C/100 ML		NA			NA

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:53:06 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-009	SW03-009	SW03-010	SW03-010	SW03-010
Sample ID		SW03-009	SW03-009	SW03-010	SW03-010	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/25/03	03/09/04	10/07/03	11/25/03	03/09/04
Parameter	Units					
Volatile Organic Compounds						
Acetone	UG/L					
Carbon Disulfide	UG/L					
Semivolatile Organic Compounds						
bis(2-Ethylhexyl)phthalate	UG/L					
Phenol	UG/L		1 J			
Pesticides						
4,4-DDT	UG/L					
delta-BHC	UG/L					
Metals						
Calcium	UG/L	36,200	36,100	34,900	41,100	43,500
Lead	UG/L					
Magnesium	UG/L	9,480	8,690	8,800	9,690	9,680
Potassium	UG/L	2,540	1,900	1,710	2,620	3,010
Sodium	UG/L	11,200	14,600	11,900 J	15,300	26,900
Miscellaneous Parameters						
Alkalinity, Bicarbonate (as CaCO3)	MG/L	90.0	94.8	59.9	101	100
Alkalinity, Total (as CaCO3)	MG/L	90.0	94.8	59.9	101	100
Chloride	MG/L	20.4	19.9	18.9	27.9	50.3
Hardness	MG/L	172	116	147	144	132
Monomethyl Mercury	NG/L	0.118 B			0.092 B	0.090 B
Sulfate (as SO4)	MG/L	26.9	25.1	26.6	36.5	36.5
Total Dissolved Solids	MG/L	168	159	138	196	233
Total Organic Carbon (TOC)	MG/L	1.7	1.6	1.5	2.4	3.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:53:09 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-009	SW03-009	SW03-010	SW03-010	SW03-010
Sample ID		SW03-009	SW03-009	SW03-010	SW03-010	SW03-010
Matrix		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-	-	-
Date Sampled		11/25/03	03/09/04	10/07/03	11/25/03	03/09/04
Parameter	Units					
Miscellaneous Parameters						
Total Suspended Solids	MG/L	61.0	6.0		22.0	36.0
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1300	390	870	2500	2100
Total Coliform	C/100 ML		1100	410	580	
Fecal Coliform	C/100 ML		20	NA	80	40

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-011	SW03-011	SW03-011
Sample ID		SW03-011	SW03-011	SW03-011
Matrix		Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-
Date Sampled		10/09/03	11/24/03	03/09/04
Parameter	**Units**			
Volatile Organic Compounds				
Acetone	UG/L			
Carbon Disulfide	UG/L			
Semivolatile Organic Compounds				
bis(2-Ethylhexyl)phthalate	UG/L			
Phenol	UG/L			
Pesticides				
4,4-DDT	UG/L			
delta-BHC	UG/L		0.043 J	
Metals				
Calcium	UG/L	34,300	36,000	36,000
Lead	UG/L			
Magnesium	UG/L	9,090	9,070	8,750
Potassium	UG/L	1,760	2,050 J	1,820
Sodium	UG/L	10,400	11,700 J	17,000
Miscellaneous Parameters				
Alkalinity, Bicarbonate (as CaCO3)	MG/L	101	98.0	95.8
Alkalinity, Total (as CaCO3)	MG/L	101	98.0	95.8
Chloride	MG/L	19.8	19.6	24.4
Hardness	MG/L	144	144	120
Monomethyl Mercury	NG/L	0.074 B		
Sulfate (as SO4)	MG/L	34.1	27.6	26.2
Total Dissolved Solids	MG/L	174	162	176
Total Organic Carbon (TOC)	MG/L	1.8	2.0	1.7

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:53:17 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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TABLE 1
SURFACE WATER SAMPLE ANALYTICAL RESULTS
OCTOBER/NOVEMBER, DECEMBER 2003 AND MARCH 2004 SAMPLING EVENTS

Location ID		SW03-011	SW03-011	SW03-011
Sample ID		SW03-011	SW03-011	SW03-011
Matrix		Surface Water	Surface Water	Surface Water
Depth Interval (ft)		-	-	-
Date Sampled		10/09/03	11/24/03	03/09/04
Parameter	Units			
Miscellaneous Parameters				
Total Suspended Solids	MG/L	6.0		4.0
Bacterial and Microbial Parameters				
Heterotrophic Plate Count	CFU/ML	570	920	370
Total Coliform	C/100 ML	600	450	1100
Fecal Coliform	C/100 ML	NA	100	

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/10/2004 8:53:20 AM
[tblRES].[MATRIX] = 'WS' AND [tblRES].[LOGDATE] BETWEEN #09/01/03# AND #03/31/04# AND [tblRES].[SACODE] = 'N'

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DEFINITIONS OF USEPA REGION II DATA QUALIFIERS AND SAMPLE CONCENTRATION UNITS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-001A-P2
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P2	GW03-001A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	12/08/03	02/26/04	10/07/03	02/27/04
Parameter	Units					
Metals						
Calcium	UG/L	306,000	393,000	316,000	1,500,000	1,260,000
Magnesium	UG/L	82,200	93,200	77,600	518,000	387,000
Potassium	UG/L	16,100	14,500	12,200	51,100	51,100
Sodium	UG/L	298,000 J	304,000	265,000	4,130,000	2,770,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	330	336	350	215	288
Chloride	MG/L	447	761	574	14,300	6,050
Hardness	MG/L	1,230	1,380	969	5,870	6,900
Sulfate (as SO4)	MG/L	586	1,270 J	707	1,320	1,380
Total Dissolved Solids	MG/L	2,000	2,550	2,020	20,600	13,400
Total Organic Carbon (TOC)	MG/L	1.1	1.0	1.1		1.7
Total Suspended Solids	MG/L				12.0	5.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-002A-P1	GW03-002A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1
Sample ID		GW03-002A-P1	GW03-002A-P1	GW03-002A-P1	GW03-002A-P2	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	12/09/03	02/26/04	12/12/03	09/26/03
Parameter	Units					
Metals						
Calcium	UG/L	151,000	141,000	148,000	1,010,000	163,000
Magnesium	UG/L	60,200	58,000	59,400	369,000	79,900
Potassium	UG/L	6,110	6,440	5,570	83,500	3,150 J
Sodium	UG/L	66,100	61,200	55,300	3,680,000	65,700
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	340	362	380	NA	312
Chloride	MG/L	76.4	69.8	54.5	NA	185
Hardness	MG/L	716	710	557	NA	892
Sulfate (as SO4)	MG/L	266	271	264	NA	128
Total Dissolved Solids	MG/L	902	845	845	NA	1,020
Total Organic Carbon (TOC)	MG/L	1.2	1.7	1.5	1.7	
Total Suspended Solids	MG/L				NA	14.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-003A-P1	GW03-003A-P1	GW03-003A-P2	GW03-003A-P2	GW03-003A-P2
Sample ID		GW03-003A-P1	GW03-003A-P1	GW03-003A-P2	GW03-003A-P2	GW03-003A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	03/01/04	09/26/03	12/02/03	03/02/04
Parameter	**Units**					
Metals						
Calcium	UG/L	181,000	227,000	236,000	231,000	239,000
Magnesium	UG/L	95,000	110,000	118,000	120,000	118,000
Potassium	UG/L	3,730	4,220	9,440 J	10,800	11,000
Sodium	UG/L	79,400	157,000	181,000	196,000	211,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	321	311	346	338	329
Chloride	MG/L	361	668	518	616	902
Hardness	MG/L	890	1,010	2,840	1,200	1,200
Sulfate (as SO4)	MG/L	162	157	301	258	274
Total Dissolved Solids	MG/L	1,200	1,650	1,760	2,020	1,990
Total Organic Carbon (TOC)	MG/L		1.2		1.1	1.3
Total Suspended Solids	MG/L	9.0				

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-004A-P1	GW03-004A-P1	GW03-004A-P1	GW03-004A-P2	GW03-004A-P2
Sample ID		GW03-004A-P1	GW03-004A-P1	GW03-004A-P1	GW03-004A-P2	GW03-004A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	12/03/03	03/01/04	09/29/03	12/03/03
Parameter	Units					
Metals						
Calcium	UG/L	182,000	190,000	196,000	93,200	75,700
Magnesium	UG/L	81,000	93,200	95,400	48,900	41,500
Potassium	UG/L	12,600	15,600	14,900	17,500	18,700
Sodium	UG/L	157,000	158,000	158,000	250,000	281,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	266	266	207	360	359
Chloride	MG/L	368	333	675	313	376
Hardness	MG/L	843	980	880	470	660
Sulfate (as SO4)	MG/L	273	173 J	290	154	187 J
Total Dissolved Solids	MG/L	1,500	1,030	1,440	1,220	1,070
Total Organic Carbon (TOC)	MG/L	2.3 J	1.9	2.3	2.3 J	2.0
Total Suspended Solids	MG/L	5.0		16.0	6.0	6.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Sample ID		GW03-004A-P2	GW03-005A-P1	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	10/06/03	12/04/03	03/10/04	10/08/03
Parameter	Units					
Metals						
Calcium	UG/L	99,700	768,000	759,000	831,000	1,220,000
Magnesium	UG/L	53,400	133,000	133,000	140,000	403,000
Potassium	UG/L	17,900	28,500	27,800	26,600	60,000 J
Sodium	UG/L	260,000	700,000	685,000	724,000	2,390,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	349	277	305	309	188 J
Chloride	MG/L	360	1,240	972	2,250 J	3,240
Hardness	MG/L	436	2,960	3,210	2,590	6,600
Sulfate (as SO4)	MG/L	157	1,430	1,250	2,730 J	1,300
Total Dissolved Solids	MG/L	1,190	5,060	4,850	4,530	9,130
Total Organic Carbon (TOC)	MG/L	2.3				2.3 J
Total Suspended Solids	MG/L	5.0				2,820

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-005A-P2	GW03-005A-P2	GW03-006A-P1	GW03-006A-P1	GW03-006A-P1
Sample ID		GW03-005A-P2	GW03-005A-P2	GW03-006A-P1	GW03-006A-P1	GW03-006A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	03/11/04	10/01/03	12/02/03	03/02/04
Parameter	Units					
Metals						
Calcium	UG/L	1,200,000	2,470,000	125,000	147,000	126,000
Magnesium	UG/L	509,000	961,000	44,500	53,200	43,800
Potassium	UG/L	40,800	93,900	3,110	3,240 J	2,640
Sodium	UG/L	3,630,000	7,000,000	82,300	95,700	96,200
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	184	193	350	313	325
Chloride	MG/L	7,630	30,200 J	100	175	382
Hardness	MG/L	7,300	8,390	617	296	496
Sulfate (as SO4)	MG/L	2,090	3,580 J	139	154	170
Total Dissolved Solids	MG/L	12,700	18,400	771	888	784
Total Organic Carbon (TOC)	MG/L	1.6		1.3	1.9	1.9
Total Suspended Solids	MG/L	733	1,740			4.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-006A-P5	GW03-006A-P5	GW03-006A-P5	GW03-006B-P2	GW03-006B-P2
Sample ID		GW03-006A-P5	GW03-006A-P5	GW03-006A-P5	GW03-006B-P2	GW03-006B-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/01/03	12/03/03	03/03/04	10/01/03	12/08/03
Parameter	Units					
Metals						
Calcium	UG/L	646,000	639,000	629,000	669,000	704,000
Magnesium	UG/L	106,000	97,900	91,100	107,000	107,000
Potassium	UG/L	22,100	23,400	20,900	18,100	21,700
Sodium	UG/L	526,000	519,000	464,000	510,000	538,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	310	288	329	282	288
Chloride	MG/L	805	1,220	762	855	976
Hardness	MG/L	1,540	2,160	1,640	2,630	2,380
Sulfate (as SO4)	MG/L	1,320	1,950 J	1,410	1,260	1,800
Total Dissolved Solids	MG/L	4,270	3,740	3,380	4,080	4,330
Total Organic Carbon (TOC)	MG/L					
Total Suspended Solids	MG/L					

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-006B-P2	GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006B-P2	GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	10/03/03	12/08/03	03/03/04	10/01/03
Parameter	Units					
Metals						
Calcium	UG/L	782,000	91,800	92,300	100,000	107,000
Magnesium	UG/L	113,000	27,200	27,100	28,400	39,300
Potassium	UG/L	24,300	12,100	10,800	4,840	2,530 J
Sodium	UG/L	627,000	35,400	12,300	6,760	12,100
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	297	260	278	287	250
Chloride	MG/L	1,110	16.6	12.1	13.1	16.2
Hardness	MG/L	2,140	468	410	371	547
Sulfate (as SO4)	MG/L	1,660	130	59.6	71.2	185
Total Dissolved Solids	MG/L	4,420	502	408	399	558
Total Organic Carbon (TOC)	MG/L		1.0	1.1		4.7
Total Suspended Solids	MG/L		12.0			9.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/7/2004 7:41:22 PM

[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007A-P1	GW03-007A-P1	GW03-007A-P2	GW03-007A-P2	GW03-007A-P2
Sample ID		GW03-007A-P1	GW03-007A-P1	GW03-007A-P2	GW03-007A-P2	GW03-007A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/27/04	10/02/03	12/10/03	03/01/04
Parameter	Units					
Metals						
Calcium	UG/L	54,300	79,000	622,000	613,000	663,000
Magnesium	UG/L	19,800	27,400	62,000	58,300	62,300
Potassium	UG/L	2,840	2,500	8,390	9,910	9,680
Sodium	UG/L	6,280	7,320	94,100	99,000	111,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	131	213	260	298	276
Chloride	MG/L	6.3	9.8	194	163	238
Hardness	MG/L	280	316	1,970	1,900	1,780
Sulfate (as SO4)	MG/L	90.5 J	106	1,180	1,480	1,440
Total Dissolved Solids	MG/L	302	388	2,630	2,700	2,810
Total Organic Carbon (TOC)	MG/L	6.2	5.1	1.8	2.7	3.0
Total Suspended Solids	MG/L	5.0		8.0		5.0

Flags assigned during chemistry validation are shown.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4	GW03-007B-P4
Sample ID		GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	12/11/03	02/27/04	10/01/03	12/04/03
Parameter	Units					
Metals						
Calcium	UG/L	7,530,000	8,170,000	8,230,000	234,000	227,000
Magnesium	UG/L	3,360,000	3,560,000	3,600,000	90,100	88,300
Potassium	UG/L	309,000	296,000	289,000	3,470 J	3,980
Sodium	UG/L	22,300,000	23,700,000	24,300,000	15,500	15,400
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	92.0	96.2	95.6	310	341
Chloride	MG/L	45,700	83,100	141,000 J	301	12.4
Hardness	MG/L	9,750	37,800	36,000	1,080	980
Sulfate (as SO4)	MG/L	1,500	1,040	1,550	554	619 J
Total Dissolved Solids	MG/L	108,000	88,300	99,800	1,320	1,250
Total Organic Carbon (TOC)	MG/L				1.1	1.7
Total Suspended Solids	MG/L	125	60.0	56.0		20.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007B-P4	GW03-007B-P5	GW03-007B-P5	GW03-007B-P5	GW03-008A-P1
Sample ID		GW03-007B-P4	GW03-007B-P5	GW03-007B-P5	GW03-007B-P5	GW03-008A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	10/14/03	12/11/03	02/26/04	09/30/03
Parameter	**Units**					
Metals						
Calcium	UG/L	216,000	271,000	443,000	433,000	96,300
Magnesium	UG/L	83,200	69,800	82,700	80,500	27,700
Potassium	UG/L	2,890	7,900	9,400	9,790	2,080
Sodium	UG/L	13,700	72,500	93,000	93,600	76,700
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	331	274	268	262	270
Chloride	MG/L	10.4	70.7	161	128	28.3
Hardness	MG/L	980	6,000	4,800	4,900	468
Sulfate (as SO4)	MG/L	669	873	1,180	1,220	175
Total Dissolved Solids	MG/L	1,180	1,690	2,030	2,180	615
Total Organic Carbon (TOC)	MG/L	1.6	2.6	2.3	2.2	7.4 J
Total Suspended Solids	MG/L		16.0	20.0	21.0	10.0

Flags assigned during chemistry validation are shown.

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008A-P1	GW03-008A-P1	GW03-008A-P2	GW03-008A-P2	GW03-008A-P2
Sample ID		GW03-008A-P1	GW03-008A-P1	GW03-008A-P2	GW03-008A-P2	GW03-008A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/02/04	10/08/03	12/04/03	03/02/04
Parameter	**Units**					
Metals						
Calcium	UG/L	107,000	94,200	674,000	713,000	706,000
Magnesium	UG/L	32,200	29,000	125,000	128,000	129,000
Potassium	UG/L	2,300	1,990	23,100 J	21,800	22,200
Sodium	UG/L	62,400	26,200	551,000	581,000	544,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	296	239	223 J	236	253
Chloride	MG/L	25.9	22.8	1,270	1,140	1,040
Hardness	MG/L	440	398	3,500	2,800	2,810
Sulfate (as SO4)	MG/L	196	170	1,280	1,560	1,690
Total Dissolved Solids	MG/L	649	544	2,300	4,360	4,200
Total Organic Carbon (TOC)	MG/L	8.2	8.4	3.3	2.0	1.9
Total Suspended Solids	MG/L	9.0	11.0	7.0		

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008A-P3	GW03-008A-P3	GW03-008A-P3	GW03-008B-P4	GW03-008B-P4
Sample ID		GW03-008A-P3	GW03-008A-P3	GW03-008A-P3	GW03-008B-P4	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	12/03/03	03/02/04	09/29/03	12/03/03
Parameter	Units					
Metals						
Calcium	UG/L	3,530,000	3,900,000	4,250,000	113,000	124,000
Magnesium	UG/L	1,520,000	1,720,000	1,880,000	43,400	43,600
Potassium	UG/L	180,000 J	198,000	203,000	1,060	1,310
Sodium	UG/L	11,000,000	12,800,000	13,400,000	8,280	9,760
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	181 J	192	260	285	291
Chloride	MG/L	40,700	44,300	66,800	15.2	17.1
Hardness	MG/L	17,500	18,000	20,600	627	580
Sulfate (as SO4)	MG/L	1,600	1,820 J	1,840	157	199
Total Dissolved Solids	MG/L	57,500	56,900	51,800	585	611
Total Organic Carbon (TOC)	MG/L	4.4	2.0	3.6	2.1 J	3.2
Total Suspended Solids	MG/L	13.0	54.0	6.0	7.0	

Flags assigned during chemistry validation are shown.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008B-P4	GW03-008B-P5	GW03-008B-P5	GW03-008B-P5	GW03-008B-P6
Sample ID		GW03-008B-P4	GW03-008B-P5	GW03-008B-P5	GW03-008B-P5	GW03-008B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	09/30/03	12/03/03	03/02/04	10/09/03
Parameter	Units					
Metals						
Calcium	UG/L	116,000	178,000	157,000	153,000	361,000
Magnesium	UG/L	34,700	46,500	45,900	46,800	86,700
Potassium	UG/L	1,610	3,610	3,330	3,020	11,300 J
Sodium	UG/L	12,500	33,100	20,300	13,500	225,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	316	284	309	299	251 J
Chloride	MG/L	21.1	18.8	17.3	17.7	268
Hardness	MG/L	439	726	660	673	1,420
Sulfate (as SO4)	MG/L	121	301	271	340	773
Total Dissolved Solids	MG/L	553	811	739	801	2,220
Total Organic Carbon (TOC)	MG/L	4.7	7.4 J	7.3	7.5	4.9
Total Suspended Solids	MG/L		15.0	9.0	6.0	625

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009A-P1	GW03-009A-P1	GW03-009A-P1	GW03-009A-P2	GW03-009A-P2
Sample ID		GW03-009A-P1	GW03-009A-P1	GW03-009A-P1	GW03-009A-P2	GW03-009A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	12/05/03	03/05/04	10/09/03	12/05/03
Parameter	Units					
Metals						
Calcium	UG/L	403,000	138,000	147,000	591,000	574,000
Magnesium	UG/L	102,000	39,600	40,300	54,400	60,000
Potassium	UG/L	5,370	3,320	3,890	6,970	6,390
Sodium	UG/L	40,800	18,000	14,100	66,800	53,900
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	314	280	276	282	295
Chloride	MG/L	94.5	40.2	30.1	230	104
Hardness	MG/L	2,270	2,800	590	1,900	4,400
Sulfate (as SO4)	MG/L	757	216 J	299	1,230	1,410 J
Total Dissolved Solids	MG/L	1,930	664	712	2,440	1,390
Total Organic Carbon (TOC)	MG/L	2.7	4.2	3.8	2.6	2.8
Total Suspended Solids	MG/L					6.0

Flags assigned during chemistry validation are shown.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009A-P2	GW03-009A-P3	GW03-009A-P3	GW03-009A-P3	GW03-009B-P4
Sample ID		GW03-009A-P2	GW03-009A-P3	GW03-009A-P3	GW03-009A-P3	GW03-009B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/08/04	10/13/03	12/16/03	03/09/04	09/29/03
Parameter	Units					
Metals						
Calcium	UG/L	718,000	2,520,000	3,610,000 J	3,360,000 J	177,000
Magnesium	UG/L	64,200	1,220,000	1,640,000 J	1,600,000 J	50,800
Potassium	UG/L	6,920	204,000 J	188,000 J	158,000 J	7,850
Sodium	UG/L	72,800	10,600,000 J	12,200,000 J	11,000,000 J	413,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	299	212	193	176	331
Chloride	MG/L	151	84,200	40,900	69,300 J	603
Hardness	MG/L	1,660	17,000	15,800	15,500	686
Sulfate (as SO4)	MG/L	1,310	1,550	3,240	3,210 J	143
Total Dissolved Solids	MG/L	2,660	42,200	7,340	45,600	1,830
Total Organic Carbon (TOC)	MG/L	3.2		1.1		1.9 J
Total Suspended Solids	MG/L		44.0	54.0	26.0	

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009B-P4	GW03-009B-P4	GW03-009B-P5	GW03-009B-P5	GW03-009B-P5
Sample ID		GW03-009B-P4	GW03-009B-P4	GW03-009B-P5	GW03-009B-P5	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	03/03/04	09/29/03	12/05/03	03/03/04
Parameter	Units					
Metals						
Calcium	UG/L	176,000	165,000	250,000	180,000	180,000
Magnesium	UG/L	51,900	48,100	60,000	48,800	46,900
Potassium	UG/L	7,100	4,710	8,620	7,310	5,050
Sodium	UG/L	503,000	197,000	502,000	460,000	184,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	360	320	340	365	287
Chloride	MG/L	850	467	685	782	442
Hardness	MG/L	830	535	1,020	770	636
Sulfate (as SO4)	MG/L	156 J	166	214	236 J	231
Total Dissolved Solids	MG/L	2,010	1,200	2,400	2,050	1,170
Total Organic Carbon (TOC)	MG/L	1.7	1.4	2.0 J	1.9	1.3
Total Suspended Solids	MG/L			45.0		

Flags assigned during chemistry validation are shown.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009B-P6	GW03-009B-P6	GW03-009B-P6	GW03-010A-P1	GW03-010A-P1
Sample ID		GW03-009B-P6	GW03-009B-P6	GW03-009B-P6	GW03-010A-P1	GW03-010A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	12/08/03	03/03/04	10/09/03	12/04/03
Parameter	Units					
Metals						
Calcium	UG/L	175,000	189,000	173,000	539,000	552,000
Magnesium	UG/L	50,600	56,900	51,100	121,000	123,000
Potassium	UG/L	9,040	8,030	5,230	17,900 J	16,100
Sodium	UG/L	398,000	491,000	231,000	128,000	99,800
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	324	342	346	284	277
Chloride	MG/L	603	986	588	182	160
Hardness	MG/L	756	830	626	2,160	2,140
Sulfate (as SO4)	MG/L	138	152 J	159	1,400	1,400
Total Dissolved Solids	MG/L	1,800	2,100	1,340	2,780	2,670
Total Organic Carbon (TOC)	MG/L	1.5 J	1.8	1.4	1.2	1.4
Total Suspended Solids	MG/L		12.0			

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P2	GW03-010A-P2	GW03-010A-P3
Sample ID		GW03-010A-P1	GW03-010A-P2	GW03-010A-P2	GW03-010A-P2	GW03-010A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/25/04	10/13/03	12/03/03	02/27/04	10/14/03
Parameter	Units					
Metals						
Calcium	UG/L	568,000	589,000	628,000	641,000	NA
Magnesium	UG/L	128,000	51,700 J	63,800	64,300	NA
Potassium	UG/L	16,300	7,970	9,250	9,600	NA
Sodium	UG/L	96,700 J	112,000	133,000	124,000	NA
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	282	264	228	237	NA
Chloride	MG/L	176	236 J	278	236	NA
Hardness	MG/L	1,940	2,090	1,930	1,880	NA
Sulfate (as SO4)	MG/L	1,820	1,220 J	1,730 J	1,470	NA
Total Dissolved Solids	MG/L	2,820	2,730	2,830	2,800	NA
Total Organic Carbon (TOC)	MG/L	1.7	1.4	1.7	1.4	1.2
Total Suspended Solids	MG/L					NA

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010A-P3	GW03-010A-P3	GW03-010B-P4	GW03-010B-P4	GW03-010B-P4
Sample ID		GW03-010A-P3	GW03-010A-P3	GW03-010B-P4	GW03-010B-P4	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/19/03	03/02/04	09/26/03	12/02/03	03/01/04
Parameter	Units					
Metals						
Calcium	UG/L	2,590,000	2,880,000	180,000	183,000	117,000
Magnesium	UG/L	1,180,000	1,350,000	41,400	42,700	32,800
Potassium	UG/L	108,000 J	131,000	2,400 J	2,620 J	1,460
Sodium	UG/L	7,980,000	8,850,000	70,000	71,100	27,900
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	196	197	294	296	293
Chloride	MG/L	15,100	11,900	88.6	116	54.7
Hardness	MG/L	11,300	14,400	706	700	490
Sulfate (as SO4)	MG/L	2,090	4,240	352	491	125
Total Dissolved Solids	MG/L	36,900	37,500	914	963	596
Total Organic Carbon (TOC)	MG/L	1.4		2.2	4.8	2.7
Total Suspended Solids	MG/L	24.0	274			

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010B-P5	GW03-010B-P5	GW03-010B-P5	GW03-010B-P6	GW03-010B-P6
Sample ID		GW03-010B-P5	GW03-010B-P5	GW03-010B-P5	GW03-010B-P6	GW03-010B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	12/03/03	03/01/04	10/09/03	12/03/03
Parameter	Units					
Metals						
Calcium	UG/L	328,000	395,000	462,000	598,000	598,000
Magnesium	UG/L	68,600	72,900	84,500	73,700	72,700
Potassium	UG/L	3,590 J	3,400	2,750	9,580 J	10,300
Sodium	UG/L	71,500	47,700	23,300	134,000	136,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	244	253	261	215 J	251
Chloride	MG/L	67.6	397	25.2	201	278
Hardness	MG/L	1,340	1,560	1,450	1,960	2,040
Sulfate (as SO4)	MG/L	706	791	1,160	1,310	1,430
Total Dissolved Solids	MG/L	1,630	1,010	2,020	2,790	2,740
Total Organic Carbon (TOC)	MG/L	1.5 J	1.8	2.0	2.4	1.4
Total Suspended Solids	MG/L					

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010B-P6	GW03-010C-P7	GW03-010C-P7	GW03-010C-P7	GW03-011A-P1
Sample ID		GW03-010B-P6	GW03-010C-P7	GW03-010C-P7	GW03-010C-P7	GW03-011A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	09/26/03	12/02/03	03/01/04	10/09/03
Parameter	Units					
Metals						
Calcium	UG/L	643,000	162,000	142,000	148,000	398,000
Magnesium	UG/L	70,300	50,400	43,500	49,600	95,100
Potassium	UG/L	10,500	2,500 J	4,200	3,090	7,570
Sodium	UG/L	131,000	292,000	358,000	473,000	101,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	246	320	334	310	371 J
Chloride	MG/L	278	383	872	860	198
Hardness	MG/L	1,740	784	660	541	1,720
Sulfate (as SO4)	MG/L	1,460	145	130	109	904
Total Dissolved Solids	MG/L	2,810	1,390	1,510	1,840	2,090
Total Organic Carbon (TOC)	MG/L	2.2	1.9	2.0	3.4	19.7
Total Suspended Solids	MG/L			13.0		

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011A-P1	GW03-011A-P1	GW03-011A-P2	GW03-011A-P2	GW03-011A-P2
Sample ID		GW03-011A-P1	GW03-011A-P1	GW03-011A-P2	GW03-011A-P2	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	03/04/04	10/14/03	12/02/03	03/04/04
Parameter	Units					
Metals						
Calcium	UG/L	343,000	259,000	895,000	1,150,000	1,400,000
Magnesium	UG/L	102,000	72,700	221,000	296,000	340,000
Potassium	UG/L	10,800	10,100	37,700 J	39,900	52,800
Sodium	UG/L	129,000	130,000	1,160,000	1,760,000	2,240,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	354	388	375	345	364
Chloride	MG/L	228	241	2,760 J	3,980	9,390
Hardness	MG/L	625	875	4,500	4,500	5,000
Sulfate (as SO4)	MG/L	889	962	1,650 J	1,370	1,790
Total Dissolved Solids	MG/L	2,040	1,420	6,820	9,100	10,200
Total Organic Carbon (TOC)	MG/L	5.1	2.0	4.0	2.7	1.4
Total Suspended Solids	MG/L	10.0			20.0	

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011A-P3	GW03-011A-P3	GW03-011A-P3	GW03-011B-P4	GW03-011B-P4
Sample ID		GW03-011A-P3	GW03-011A-P3	GW03-011A-P3	GW03-011B-P4	GW03-011B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	12/03/03	03/04/04	09/25/03	12/02/03
Parameter	Units					
Metals						
Calcium	UG/L	3,150,000	3,130,000	3,500,000	90,700	90,800
Magnesium	UG/L	1,080,000 J	1,080,000	1,220,000	65,100	67,900
Potassium	UG/L	161,000	156,000	162,000	1,710	1,740 J
Sodium	UG/L	9,570,000	8,900,000	9,470,000 J	44,800 J	39,800
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	353	279	347	380	384
Chloride	MG/L	24,200 J	27,800	47,000	19.9	20.5
Hardness	MG/L	16,600	13,900	11,700	343	548
Sulfate (as SO4)	MG/L	1,690 J	1,620 J	2,290	111	164
Total Dissolved Solids	MG/L	38,700	41,900	36,600	622	622
Total Organic Carbon (TOC)	MG/L				2.1	5.2
Total Suspended Solids	MG/L		96.0	5.0		

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011B-P4	GW03-011C-P7	GW03-011C-P7	GW03-011C-P7	GW03-011C-P8
Sample ID		GW03-011B-P4	GW03-011C-P7	GW03-011C-P7	GW03-011C-P7	GW03-011C-P8
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	09/25/03	12/02/03	03/04/04	09/25/03
Parameter	**Units**					
Metals						
Calcium	UG/L	91,200	87,400	87,100	87,800	199,000
Magnesium	UG/L	66,300	71,700	74,400	76,000	49,700
Potassium	UG/L	2,010	1,770	2,450 J	2,380	1,630
Sodium	UG/L	33,300	42,000 J	38,200	32,000	21,000 J
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	377	364	371	398	310
Chloride	MG/L	21.0	35.2	36.6	48.4	4.6
Hardness	MG/L	596	513	548	521	941
Sulfate (as SO4)	MG/L	192	116	169	203	337
Total Dissolved Solids	MG/L	605	612	652	573	918
Total Organic Carbon (TOC)	MG/L	1.8	1.8	2.2	2.0	2.1
Total Suspended Solids	MG/L					

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Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011C-P8	GW03-011C-P8	GW03-012A-P2	GW03-012A-P2	GW03-012A-P2
Sample ID		GW03-011C-P8	GW03-011C-P8	GW03-012A-P2	GW03-012A-P2	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/03/04	10/10/03	12/16/03	03/03/04
Parameter	Units					
Metals						
Calcium	UG/L	188,000	171,000	167,000	222,000	190,000
Magnesium	UG/L	49,600	40,700	42,300	60,800	47,000
Potassium	UG/L	10,900	41,700	4,520 J	4,230	4,410
Sodium	UG/L	26,800	49,600	658,000	417,000	893,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	336	341	267 J	341	257
Chloride	MG/L	6.3	7.9	911	586	1,390
Hardness	MG/L	800	542	710	819	667
Sulfate (as SO4)	MG/L	416	416	275	320	207
Total Dissolved Solids	MG/L	953	824	2,290	1,960	2,760
Total Organic Carbon (TOC)	MG/L	2.2	1.9	1.6	2.1	1.3
Total Suspended Solids	MG/L				4.0	4.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012A-P3	GW03-012A-P3	GW03-012A-P3	GW03-012B-P4	GW03-012B-P5
Sample ID		GW03-012A-P3	GW03-012A-P3	GW03-012A-P3	GW03-012B-P4	GW03-012B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/15/03	12/19/03	03/04/04	12/17/03	10/09/03
Parameter	Units					
Metals						
Calcium	UG/L	7,770,000 J	8,100,000	9,530,000	NA	582,000
Magnesium	UG/L	2,750,000	2,990,000	3,570,000	NA	82,500
Potassium	UG/L	400,000	435,000 J	423,000	NA	10,500 J
Sodium	UG/L	23,300,000	27,100,000	27,100,000 J	NA	361,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	160	155	129	282	285 J
Chloride	MG/L	60,100	7,710	17,500	NA	475
Hardness	MG/L	35,600	37,400	35,600	1,090	1,960
Sulfate (as SO4)	MG/L	1,180	4,840	2,540	NA	1,180
Total Dissolved Solids	MG/L	96,900	94,500	107,000	NA	3,210
Total Organic Carbon (TOC)	MG/L		1.0	1.0	2.9	2.4
Total Suspended Solids	MG/L	470	247	53.0	NA	22.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012B-P5	GW03-012B-P5	GW03-012B-P6	GW03-012B-P6	GW03-012B-P6
Sample ID		GW03-012B-P5	GW03-012B-P5	GW03-012B-P6	GW03-012B-P6	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	03/03/04	10/09/03	12/16/03	03/03/04
Parameter	Units					
Metals						
Calcium	UG/L	633,000	436,000	301,000	283,000	371,000
Magnesium	UG/L	87,800	59,200	51,000	44,900	60,500
Potassium	UG/L	13,700	8,700	11,400	11,600	10,500
Sodium	UG/L	295,000	673,000	442,000	383,000	801,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	308	323	316	309	292
Chloride	MG/L	362	1,080	637	1,520	1,280
Hardness	MG/L	1,850	1,400	1,320	1,030	1,060
Sulfate (as SO4)	MG/L	1,490	776	595	864	656
Total Dissolved Solids	MG/L	3,100	2,930	1,160	2,020	3,270
Total Organic Carbon (TOC)	MG/L	2.4	1.6	1.0	1.8	1.2
Total Suspended Solids	MG/L	368		6.0	23.0	5.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012C-P7	GW03-012C-P7	GW03-013A-P1	GW03-013A-P1	GW03-013A-P1
Sample ID		GW03-012C-P7	GW03-012C-P7	GW03-013A-P1	GW03-013A-P1	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	03/03/04	10/08/03	12/04/03	02/26/04
Parameter	Units					
Metals						
Calcium	UG/L	142,000	175,000	149,000	144,000	130,000
Magnesium	UG/L	43,100	57,500	48,000	46,500	39,500
Potassium	UG/L	2,530	3,090	3,300 J	3,120 J	2,870
Sodium	UG/L	392,000	435,000	337,000	330,000	265,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	321	326	245 J	296	280
Chloride	MG/L	581	802	499	546	615
Hardness	MG/L	597	629	570	610	612
Sulfate (as SO4)	MG/L	252	166	190	243	214
Total Dissolved Solids	MG/L	1,460	1,660	1,550	1,410	1,250
Total Organic Carbon (TOC)	MG/L	2.1	1.6	2.0	2.1	1.8
Total Suspended Solids	MG/L		149	20.0	10.0	7.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013A-P2	GW03-013A-P2	GW03-013A-P2	GW03-013A-P3	GW03-013A-P3
Sample ID		GW03-013A-P2	GW03-013A-P2	GW03-013A-P2	GW03-013A-P3	GW03-013A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	12/04/03	02/25/04	10/13/03	12/08/03
Parameter	Units					
Metals						
Calcium	UG/L	68,700	118,000	98,100	987,000	150,000
Magnesium	UG/L	16,900	27,800	23,600	242,000 J	38,200
Potassium	UG/L	2,910 J	4,440	4,390	59,600	13,900
Sodium	UG/L	43,900	99,400	99,500 J	1,920,000	294,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	126	151	133	111	129
Chloride	MG/L	85.7 J	243	295	6,250 J	606
Hardness	MG/L	248	501	404	4,020	3,800
Sulfate (as SO4)	MG/L	89.5 J	211	135	457 J	267 J
Total Dissolved Solids	MG/L	367	753	676	9,130	1,490
Total Organic Carbon (TOC)	MG/L		1.7	1.7		1.0
Total Suspended Solids	MG/L					

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013A-P3	GW03-013B-P4	GW03-013B-P4	GW03-013B-P4	GW03-013B-P5
Sample ID		GW03-013A-P3	GW03-013B-P4	GW03-013B-P4	GW03-013B-P4	GW03-013B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	10/08/03	12/04/03	02/26/04	10/08/03
Parameter	Units					
Metals						
Calcium	UG/L	186,000	135,000	144,000	131,000	412,000
Magnesium	UG/L	42,800	44,700	46,900	40,100	64,100
Potassium	UG/L	10,600	2,930 J	2,920	2,800	13,200 J
Sodium	UG/L	244,000	302,000	324,000	261,000	105,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	121	258 J	296	282	285
Chloride	MG/L	806	445	762	499	280
Hardness	MG/L	3,800	892	650	485	1,340
Sulfate (as SO4)	MG/L	295	174	242 J	186	750
Total Dissolved Solids	MG/L	1,520	1,510	1,370	1,200	1,900
Total Organic Carbon (TOC)	MG/L		2.1	1.9	2.0	1.6
Total Suspended Solids	MG/L				12.0	

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013B-P5	GW03-013B-P5	GW03-013B-P6	GW03-013B-P6	GW03-013C-P7
Sample ID		GW03-013B-P5	GW03-013B-P5	GW03-013B-P6	GW03-013B-P6	GW03-013C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/26/04	10/15/03	02/27/04	10/08/03
Parameter	Units					
Metals						
Calcium	UG/L	326,000	371,000	556,000 J	NA	208,000
Magnesium	UG/L	55,000	58,000	61,800	NA	66,500
Potassium	UG/L	9,530	13,300	9,950	NA	5,410 J
Sodium	UG/L	116,000	99,800	430,000	NA	31,200
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	306	325	NA	242	255 J
Chloride	MG/L	309	253	NA	NA	21.4
Hardness	MG/L	1,150	1,060	1,830	NA	900
Sulfate (as SO4)	MG/L	739 J	755	NA	NA	449
Total Dissolved Solids	MG/L	1,680	1,740	NA	NA	1,180
Total Organic Carbon (TOC)	MG/L	1.8	1.8	2.4	5.9	1.6
Total Suspended Solids	MG/L			NA	NA	112

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P1	GW03-014A-P1
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P1	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	02/26/04	10/14/03	12/15/03	02/27/04
Parameter	Units					
Metals						
Calcium	UG/L	213,000	226,000	57,100	660,000	668,000
Magnesium	UG/L	63,200	62,100	142,000	178,000	171,000
Potassium	UG/L	5,070	4,300	12,000	12,000	14,900
Sodium	UG/L	23,700	22,500	71,700	695,000	690,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	350	342	429	488	543
Chloride	MG/L	28.1	25.8	730 J	1,120	1,320
Hardness	MG/L	860	711	3,800	3,710	3,090
Sulfate (as SO4)	MG/L	577 J	488	1,500 J	2,000	2,680
Total Dissolved Solids	MG/L	884	1,090	4,320	4,660	4,520
Total Organic Carbon (TOC)	MG/L	3.5	2.6	2.4	2.9	2.0
Total Suspended Solids	MG/L	360	32.0	31.0	236	245

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014A-P2	GW03-014A-P2	GW03-014A-P2	GW03-014A-P3	GW03-014A-P3
Sample ID		GW03-014A-P2	GW03-014A-P2	GW03-014A-P2	GW03-014A-P3	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	12/18/03	03/03/04	10/07/03	12/18/03
Parameter	Units					
Metals						
Calcium	UG/L	1,940,000	2,150,000 J	2,550,000	13,500,000	3,010,000 J
Magnesium	UG/L	545,000	618,000 J	800,000	4,370,000	941,000 J
Potassium	UG/L	79,500 J	87,000 J	121,000	458,000	623,000 J
Sodium	UG/L	5,180,000	6,480,000 J	8,310,000	34,900,000	6,020,000 J
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	164	166	144	70.8	68.5
Chloride	MG/L	NA	14,700	49,900	90,500	96,600
Hardness	MG/L	9,000	8,800	11,900	60,700	65,400
Sulfate (as SO4)	MG/L	NA	1,920	5,630	1,050	1,590
Total Dissolved Solids	MG/L	NA	21,200	27,300	176,000	134,000
Total Organic Carbon (TOC)	MG/L	NA	2.1	1.1		
Total Suspended Solids	MG/L	NA	352	114	11.0	80.0

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014A-P3	GW03-014B-P4	GW03-014B-P4	GW03-014B-P4	GW03-014B-P5
Sample ID		GW03-014A-P3	GW03-014B-P4	GW03-014B-P4	GW03-014B-P4	GW03-014B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	10/06/03	12/05/03	02/27/04	10/06/03
Parameter	Units					
Metals						
Calcium	UG/L	30,100,000	214,000	204,000	198,000	326,000
Magnesium	UG/L	9,870,000	55,400	55,000	52,200	51,000
Potassium	UG/L	545,000	5,130	5,110	5,390	7,980
Sodium	UG/L	38,100,000	111,000	102,000	98,400	78,400
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	65.1	259	306	314	266
Chloride	MG/L	297,000	226	184	153	155
Hardness	MG/L	58,800	945	830	557	1,520
Sulfate (as SO4)	MG/L	3,000	434	444 J	473	669
Total Dissolved Solids	MG/L	143,000	1,260	1,180	1,160	1,620
Total Organic Carbon (TOC)	MG/L		1.6	2.3	2.0	2.2
Total Suspended Solids	MG/L	136			8.0	5.0

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014B-P5	GW03-014B-P5	GW03-014B-P6	GW03-014B-P6	GW03-014B-P6
Sample ID		GW03-014B-P5	GW03-014B-P5	GW03-014B-P6	GW03-014B-P6	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	02/25/04	10/07/03	12/08/03	02/25/04
Parameter	Units					
Metals						
Calcium	UG/L	331,000	365,000	114,000	102,000	113,000
Magnesium	UG/L	54,000	53,300	11,100	12,900	14,000
Potassium	UG/L	8,510	8,240	1,940	2,140	2,290
Sodium	UG/L	84,500	93,700 J	15,300	16,900	22,100 J
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	306	312	89.1	115	122
Chloride	MG/L	152	190	32.9	46.2	39.6
Hardness	MG/L	1,420	1,160	388	360	392
Sulfate (as SO4)	MG/L	747 J	718	265	270	256
Total Dissolved Solids	MG/L	1,610	1,580	772	431	474
Total Organic Carbon (TOC)	MG/L	2.6	3.4		1.0	1.5
Total Suspended Solids	MG/L					

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014C-P7	GW03-014C-P7	GW03-014C-P7	GW03-015A-P1	GW03-015A-P1
Sample ID		GW03-014C-P7	GW03-014C-P7	GW03-014C-P7	GW03-015A-P1	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	12/04/03	02/26/04	10/03/03	12/08/03
Parameter	Units					
Metals						
Calcium	UG/L	124,000	128,000	336,000	55,400	70,500
Magnesium	UG/L	26,200	27,400	81,500	10,300	12,700
Potassium	UG/L	3,510	4,740	14,700	1,390	1,790
Sodium	UG/L	232,000	387,000	1,620,000	19,600	19,400
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	180	220	197	100	112
Chloride	MG/L	253	10.5	4,720	21.8	38.0
Hardness	MG/L	597	490	1,090	269	240
Sulfate (as SO4)	MG/L	237	248	647	79.1	182
Total Dissolved Solids	MG/L	1,060	1,440	5,520	249	328
Total Organic Carbon (TOC)	MG/L	1.7	3.4	2.0		1.1
Total Suspended Solids	MG/L			4.0		

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	10/13/03	12/10/03	03/10/04	12/09/03
Parameter	Units					
Metals						
Calcium	UG/L	115,000	2,940,000	4,680,000	4,920,000	4,560,000
Magnesium	UG/L	18,500	822,000 J	1,420,000	1,520,000	1,610,000
Potassium	UG/L	2,350	127,000	240,000	246,000	228,000
Sodium	UG/L	27,700	7,540,000	12,800,000	13,300,000	14,200,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	133	184	246	282	152
Chloride	MG/L	46.6	21,100 J	33,400	83,900 J	33,500
Hardness	MG/L	342	12,300	19,800	18,200	18,300
Sulfate (as SO4)	MG/L	138	962 J	1,560	2,410 J	1,230
Total Dissolved Solids	MG/L	681	31,400	52,500	48,700	52,400
Total Organic Carbon (TOC)	MG/L	1.3				2.5
Total Suspended Solids	MG/L		16.0	6.7	35.0	560

Flags assigned during chemistry validation are shown.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P4	GW03-015B-P5
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P4	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	10/03/03	12/08/03	03/04/04	10/06/03
Parameter	**Units**					
Metals						
Calcium	UG/L	7,820,000 J	231,000	225,000	242,000	114,000
Magnesium	UG/L	2,700,000 J	54,800	57,700	57,800	22,100
Potassium	UG/L	228,000 J	3,750	3,220	3,550	3,980
Sodium	UG/L	21,800,000 J	110,000	110,000	113,000 J	36,500
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	90.2	285	310	315	151
Chloride	MG/L	154,000 J	202	310	235	57.9
Hardness	MG/L	28,000	995	910	938	547
Sulfate (as SO4)	MG/L	2,420 J	415	620	643	213
Total Dissolved Solids	MG/L	78,100	1,290	1,260	1,350	554
Total Organic Carbon (TOC)	MG/L		1.8	2.2	2.9	
Total Suspended Solids	MG/L	218				

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015B-P5	GW03-015B-P5	GW03-015B-P6	GW03-015B-P6	GW03-015B-P6
Sample ID		GW03-015B-P5	GW03-015B-P5	GW03-015B-P6	GW03-015B-P6	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	03/08/04	10/06/03	12/09/03	03/09/04
Parameter	Units					
Metals						
Calcium	UG/L	508,000	476,000	53,400	74,700	73,200
Magnesium	UG/L	76,000	68,400	11,400	17,600	13,300
Potassium	UG/L	14,700	12,700	2,050	2,850	2,610
Sodium	UG/L	236,000	192,000 J	28,600	72,900	50,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	71.1	306	80.7		98.8
Chloride	MG/L	789	505	54.6	194	115 J
Hardness	MG/L	1,580	1,300	269	264	214
Sulfate (as SO4)	MG/L	943	897	56.5	79.3	107 J
Total Dissolved Solids	MG/L	2,640	2,220	309	526	398
Total Organic Carbon (TOC)	MG/L	4.2	4.0			1.1
Total Suspended Solids	MG/L					

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015C-P7	GW03-015C-P7	GW03-015C-P7	GW03-016A-P1	GW03-016A-P1
Sample ID		GW03-015C-P7	GW03-015C-P7	GW03-015C-P7	GW03-016A-P1	GW03-016A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	12/09/03	03/08/04	09/29/03	12/12/03
Parameter	Units					
Metals						
Calcium	UG/L	66,000	105,000	114,000	66,200	73,800
Magnesium	UG/L	16,500	42,600	41,400	9,880	10,100
Potassium	UG/L	1,970	2,920	3,190	2,190	4,800
Sodium	UG/L	16,700	28,700	31,400	19,300	28,700
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	116	99.1	192	102	106
Chloride	MG/L	22.9	35.0	45.3	19.0	23.5
Hardness	MG/L	378	468	446	220	272
Sulfate (as SO4)	MG/L	194	312	277	102	200
Total Dissolved Solids	MG/L	319	668	621	326	395
Total Organic Carbon (TOC)	MG/L	1.0	1.8	3.1		1.3
Total Suspended Solids	MG/L					8.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P2	GW03-016A-P2	GW03-016A-P3
Sample ID		GW03-016A-P1	GW03-016A-P2	GW03-016A-P2	GW03-016A-P2	GW03-016A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	09/30/03	12/16/03	03/05/04	09/29/03
Parameter	Units					
Metals						
Calcium	UG/L	70,300	396,000	411,000	460,000	510,000
Magnesium	UG/L	11,000	14,200	12,500	17,200	133,000
Potassium	UG/L	3,930	4,670	3,600	4,570	34,200
Sodium	UG/L	31,100	27,800	18,400	38,600	1,300,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	103	102	109	112	143
Chloride	MG/L	42.1	31.4	27.2	55.6	2,710
Hardness	MG/L	233	1,290	1,160	1,170	1,950
Sulfate (as SO4)	MG/L	109	788	905	958	562
Total Dissolved Solids	MG/L	334	1,460	1,550	1,710	6,060
Total Organic Carbon (TOC)	MG/L	1.3		1.1		
Total Suspended Solids	MG/L					13.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016A-P3	GW03-016A-P3	GW03-016B-P4	GW03-016B-P4	GW03-016B-P4
Sample ID		GW03-016A-P3	GW03-016A-P3	GW03-016B-P4	GW03-016B-P4	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/11/03	03/08/04	09/29/03	12/12/03	03/04/04
Parameter	Units					
Metals						
Calcium	UG/L	1,050,000	1,600,000	85,400	89,700	79,900
Magnesium	UG/L	271,000	461,000	12,400	12,800	12,200
Potassium	UG/L	51,400	72,900	1,320	1,250	1,510
Sodium	UG/L	2,540,000	4,220,000 J	40,500	31,600	37,400
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	245	218	111	115	114
Chloride	MG/L	4,770	16,200	23.5	27.1	39.4
Hardness	MG/L	4,940	5,470	388	293	263
Sulfate (as SO4)	MG/L	1,480	1,200	193	154	143
Total Dissolved Solids	MG/L	8,720	15,700	466	350	1,690
Total Organic Carbon (TOC)	MG/L				1.2	1.4
Total Suspended Solids	MG/L	40.0	39.0			6.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016B-P5	GW03-016B-P5	GW03-016B-P5	GW03-016B-P6	GW03-016B-P6
Sample ID		GW03-016B-P5	GW03-016B-P5	GW03-016B-P5	GW03-016B-P6	GW03-016B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	12/17/03	03/05/04	09/30/03	12/15/03
Parameter	Units					
Metals						
Calcium	UG/L	161,000	149,000	167,000	142,000	119,000
Magnesium	UG/L	30,500	26,400	28,000	11,000	10,200
Potassium	UG/L	1,650	1,740	1,910	2,420	1,970
Sodium	UG/L	87,300	53,600	54,300	13,000	12,900
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	134	142	138	108	107
Chloride	MG/L	45.5	49.8	58.3	19.0	22.8
Hardness	MG/L	706	548	526	547	422
Sulfate (as SO4)	MG/L	455	444	517	298	302
Total Dissolved Solids	MG/L	889	740	827	616	407
Total Organic Carbon (TOC)	MG/L		1.2			1.4
Total Suspended Solids	MG/L	6.0	7.0			

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P7	GW03-016C-P7	GW03-016C-P8
Sample ID		GW03-016B-P6	GW03-016C-P7	GW03-016C-P7	GW03-016C-P7	GW03-016C-P8
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	09/30/03	12/15/03	03/04/04	09/30/03
Parameter	Units					
Metals						
Calcium	UG/L	160,000	41,900	47,800	49,500	69,900
Magnesium	UG/L	9,650	9,190	9,740	10,100	10,700
Potassium	UG/L	1,670	1,880	1,770	1,960	2,310
Sodium	UG/L	16,500	11,700	12,500	24,200	11,300
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	105	95.9	100	102	101
Chloride	MG/L	35.1 J	17.6	22.7	40.8	17.6
Hardness	MG/L	400	308	464	158	318
Sulfate (as SO4)	MG/L	408 J	39.7	52.7	54.5	88.5
Total Dissolved Solids	MG/L	626	208	194	258	310
Total Organic Carbon (TOC)	MG/L	1.3		1.4	1.9	
Total Suspended Solids	MG/L					

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016C-P8	GW03-016C-P8	GW03-017A-P1	GW03-017A-P1	GW03-017A-P1
Sample ID		GW03-016C-P8	GW03-016C-P8	GW03-017A-P1	GW03-017A-P1	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	03/04/04	10/02/03	12/17/03	02/24/04
Parameter	Units					
Metals						
Calcium	UG/L	69,400	81,300	644,000	651,000	613,000
Magnesium	UG/L	11,000	13,800	94,200	98,000	94,800
Potassium	UG/L	1,900	3,300	16,900	17,400	21,500
Sodium	UG/L	12,200	24,500	348,000 J	346,000	337,000 J
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	109	110	200	200	181
Chloride	MG/L	22.6	41.4	605	581	506
Hardness	MG/L	272	238	2,030	2,200	2,290
Sulfate (as SO4)	MG/L	99.6	115	1,640	1,680	1,690
Total Dissolved Solids	MG/L	298	337	3,600	3,480	3,240
Total Organic Carbon (TOC)	MG/L		2.0		1.4	1.5
Total Suspended Solids	MG/L		9.0			

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017A-P2	GW03-017A-P2	GW03-017A-P2	GW03-017B-P4	GW03-017B-P4
Sample ID		GW03-017A-P2	GW03-017A-P2	GW03-017A-P2	GW03-017B-P4	GW03-017B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	12/12/03	03/01/04	09/24/03	12/10/03
Parameter	**Units**					
Metals						
Calcium	UG/L	533,000	556,000	629,000	48,500	55,400
Magnesium	UG/L	51,000	58,200	66,600	8,670	11,600
Potassium	UG/L	16,900	26,000	23,900	1,610	10,500
Sodium	UG/L	112,000	197,000	250,000	11,500	20,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	72.0	92.5	133	92.0	233
Chloride	MG/L	74.3	263	404	17.8	23.2
Hardness	MG/L	1,700	2,020	1,720	257	192
Sulfate (as SO4)	MG/L	14,400	1,680	1,520	50.8	86.6
Total Dissolved Solids	MG/L	436	2,570	3,000	197	312
Total Organic Carbon (TOC)	MG/L		1.1	1.4		1.4
Total Suspended Solids	MG/L					

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017B-P4	GW03-017B-P5	GW03-017B-P5	GW03-017B-P5	GW03-017B-P6
Sample ID		GW03-017B-P4	GW03-017B-P5	GW03-017B-P5	GW03-017B-P5	GW03-017B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	09/25/03	12/11/03	02/24/04	09/25/03
Parameter	Units					
Metals						
Calcium	UG/L	74,700	49,000	58,600	59,900	44,700
Magnesium	UG/L	12,000	10,900	12,100	12,200	9,970
Potassium	UG/L	13,800	1,660	2,120	2,110	1,890
Sodium	UG/L	32,600	14,500	16,000	25,900	12,800
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	51.8	98.0	109	102	96.0
Chloride	MG/L	43.8	21.6	28.8	47.0	20.0
Hardness	MG/L	274	197	194	276	222
Sulfate (as SO4)	MG/L	121	66.4	97.2	86.2	50.4
Total Dissolved Solids	MG/L	330	265	275	272	248
Total Organic Carbon (TOC)	MG/L	1.9	1.6	1.1	1.9	1.0
Total Suspended Solids	MG/L					5.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017B-P6	GW03-017B-P6	GW03-017C-P7	GW03-017C-P7	GW03-017C-P7
Sample ID		GW03-017B-P6	GW03-017B-P6	GW03-017C-P7	GW03-017C-P7	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/11/03	02/26/04	09/24/03	12/10/03	02/24/04
Parameter	Units					
Metals						
Calcium	UG/L	52,900	49,000	65,700	63,700	46,500
Magnesium	UG/L	10,600	10,400	11,000	11,500	11,700
Potassium	UG/L	2,230	1,760	2,590	3,530	8,130
Sodium	UG/L	15,200	22,200	13,500	14,000	19,500
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	109	104	93.0	95.3	88.7
Chloride	MG/L	25.3	39.2	18.4	21.8	29.5
Hardness	MG/L	188	200	274	252	194
Sulfate (as SO4)	MG/L	61.1	58.8	69.9	88.4	71.6
Total Dissolved Solids	MG/L	216	245	294	292	224
Total Organic Carbon (TOC)	MG/L	1.2	1.3		1.0	1.8
Total Suspended Solids	MG/L					

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017C-P8	GW03-017C-P8	GW03-017C-P8	GW03-017C-P9	GW03-017C-P9
Sample ID		GW03-017C-P8	GW03-017C-P8	GW03-017C-P8	GW03-017C-P9	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	12/15/03	02/24/04	10/02/03	12/18/03
Parameter	Units					
Metals						
Calcium	UG/L	60,200	58,300	58,600	614,000	527,000
Magnesium	UG/L	11,600	13,100	13,000	116,000	84,500
Potassium	UG/L	2,530	2,460	5,940	8,910	39,700
Sodium	UG/L	16,200	15,900	20,800	360,000	271,000
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	104	113	97.4	260	229
Chloride	MG/L	22.8	23.9	32.6	518	592
Hardness	MG/L	342	237	280	2,550	2,100
Sulfate (as SO4)	MG/L	88.4	69.5	69.1	1,440	1,420
Total Dissolved Solids	MG/L	496	225	229	3,530	2,860
Total Organic Carbon (TOC)	MG/L			1.4		2.8
Total Suspended Solids	MG/L		7.0	6.0	9.0	9.0

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017C-P9
Sample ID		GW03-017C-P9
Matrix		Groundwater
Depth Interval (ft)		-
Date Sampled		02/26/04
Parameter	**Units**	
Metals		
Calcium	UG/L	654,000
Magnesium	UG/L	147,000
Potassium	UG/L	12,000
Sodium	UG/L	327,000
Miscellaneous Parameters		
Alkalinity, Total (as CaCO3)	MG/L	297
Chloride	MG/L	736
Hardness	MG/L	2,020
Sulfate (as SO4)	MG/L	1,640
Total Dissolved Solids	MG/L	3,590
Total Organic Carbon (TOC)	MG/L	1.5
Total Suspended Solids	MG/L	8.7

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Printed: 6/7/2004 7:43:10 PM

[tblRES].[LOGDATE] BETWEEN #09/1/03# AND #03/31/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [PARNAME] = 'Calcium' OR [PARNAME] = 'Chloride' OR [PARNAME] = 'Magnesium' OR [PARNAME] = 'Sodium' OR [PARNAME] = 'Sulfate (as SO4)' OR [PARNAME] = 'Potassium' OR [PARNAME] = 'Total Dissolved

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DEFINITIONS OF USEPA REGION II DATA QUALIFIERS AND SAMPLE CONCENTRATION UNITS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P2
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	12/08/03	02/26/04	02/27/04	10/07/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L				NA	
1,1,2,2-Tetrachloroethane	UG/L				NA	
1,1,2-Trichloroethane	UG/L				NA	
1,1-Dichloroethane	UG/L				NA	
1,1-Dichloroethene	UG/L				NA	
1,2,4-Trichlorobenzene	UG/L				NA	
1,2-Dichlorobenzene	UG/L				NA	
1,2-Dichloroethane	UG/L				NA	
1,2-Dichloroethene (cis)	UG/L				NA	
1,2-Dichloroethene (trans)	UG/L				NA	
1,3-Dichlorobenzene	UG/L				NA	
1,4-Dichlorobenzene	UG/L				NA	
Acetone	UG/L				NA	34 J
Benzene	UG/L	0.48 J			NA	
Carbon Disulfide	UG/L				NA	
Chlorobenzene	UG/L				NA	
Chloroform	UG/L				NA	
Cyclohexane	UG/L	2.1	0.71 J	0.31 J	NA	
Ethylbenzene	UG/L				NA	
Isopropylbenzene (Cumene)	UG/L				NA	
Methyl Ethyl Ketone (2-Butanone)	UG/L				NA	
Methyl tert-butyl ether	UG/L				NA	
Methylcyclohexane	UG/L	0.96 J	0.54 J		NA	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P2
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	12/08/03	02/26/04	02/27/04	10/07/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L				NA	
Styrene	UG/L				NA	
Tetrachloroethene	UG/L				NA	
Toluene	UG/L				NA	
Total Xylenes	UG/L	0.58 J			NA	
Trichloroethene	UG/L				NA	
Vinyl Chloride	UG/L				NA	
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L				NA	NA
2-Chlorophenol	UG/L				NA	NA
2-Methylphenol (o-cresol)	UG/L				NA	NA
4-Methylphenol (p-cresol)	UG/L				NA	NA
Acetophenone	UG/L				NA	NA
bis(2-Ethylhexyl)phthalate	UG/L				NA	NA
Caprolactam	UG/L				NA	NA
Di-n-octylphthalate	UG/L				NA	NA
Naphthalene	UG/L				NA	NA
Phenol	UG/L				NA	NA
Pyrene	UG/L				NA	NA
Pesticides						
4,4-DDT	UG/L				NA	NA
alpha-BHC	UG/L				NA	NA
beta-BHC	UG/L				NA	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P2
Sample ID		GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P1	GW03-001A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/02/03	12/08/03	02/26/04	02/27/04	10/07/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L				NA	NA
gamma-BHC (Lindane)	UG/L				NA	NA
Polychlorinated Biphenyls						
Aroclor 1242	UG/L				NA	
Metals						
Arsenic	UG/L				NA	
Cadmium	UG/L				NA	
Lead	UG/L				NA	
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	0.169 B	0.202 B	NA	0.113 BJ	
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1000	65	14 J	NA	27000
Total Coliform	C/100 ML				NA	40
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	02/27/04	10/02/03	12/09/03	02/26/04
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	NA				
1,1,2,2-Tetrachloroethane	UG/L	NA				
1,1,2-Trichloroethane	UG/L	NA				
1,1-Dichloroethane	UG/L	NA				
1,1-Dichloroethene	UG/L	NA				
1,2,4-Trichlorobenzene	UG/L	NA				
1,2-Dichlorobenzene	UG/L	NA				
1,2-Dichloroethane	UG/L	NA				
1,2-Dichloroethene (cis)	UG/L	NA				
1,2-Dichloroethene (trans)	UG/L	NA				
1,3-Dichlorobenzene	UG/L	NA				
1,4-Dichlorobenzene	UG/L	NA				
Acetone	UG/L	NA	3.0 J			
Benzene	UG/L	NA	3.0			
Carbon Disulfide	UG/L	NA			0.38 J	
Chlorobenzene	UG/L	NA				
Chloroform	UG/L	NA				
Cyclohexane	UG/L	NA	1.5			
Ethylbenzene	UG/L	NA	0.44 J			
Isopropylbenzene (Cumene)	UG/L	NA				
Methyl Ethyl Ketone (2-Butanone)	UG/L	NA				
Methyl tert-butyl ether	UG/L	NA				
Methylcyclohexane	UG/L	NA				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	02/27/04	10/02/03	12/09/03	02/26/04
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L	NA				
Styrene	UG/L	NA				
Tetrachloroethene	UG/L	NA				
Toluene	UG/L	NA	0.47 J			
Total Xylenes	UG/L	NA	2.8 J			
Trichloroethene	UG/L	NA				
Vinyl Chloride	UG/L	NA				
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L		8 J			
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1	GW03-002A-P1
Sample ID		GW03-001A-P2	GW03-001A-P2	GW03-002A-P1	GW03-002A-P1	GW03-002A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/08/03	02/27/04	10/02/03	12/09/03	02/26/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA				
Metals						
Arsenic	UG/L	NA				
Cadmium	UG/L	NA				
Lead	UG/L	NA	29.7			
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	0.566 J	NA		NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	830	300	72	410
Total Coliform	C/100 ML	NA				
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P1	GW03-003A-P1
Sample ID		GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	12/12/03	09/26/03	12/02/03	03/01/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L	NA				
1,1,2,2-Tetrachloroethane	UG/L	NA				
1,1,2-Trichloroethane	UG/L	NA				
1,1-Dichloroethane	UG/L	NA				
1,1-Dichloroethene	UG/L	NA				
1,2,4-Trichlorobenzene	UG/L	NA				
1,2-Dichlorobenzene	UG/L	NA				
1,2-Dichloroethane	UG/L	NA				
1,2-Dichloroethene (cis)	UG/L	NA				
1,2-Dichloroethene (trans)	UG/L	NA				
1,3-Dichlorobenzene	UG/L	NA				
1,4-Dichlorobenzene	UG/L	NA				
Acetone	UG/L	NA	10 J			
Benzene	UG/L	NA				
Carbon Disulfide	UG/L	NA				
Chlorobenzene	UG/L	NA				
Chloroform	UG/L	NA				
Cyclohexane	UG/L	NA				
Ethylbenzene	UG/L	NA				
Isopropylbenzene (Cumene)	UG/L	NA				
Methyl Ethyl Ketone (2-Butanone)	UG/L	NA				
Methyl tert-butyl ether	UG/L	NA				
Methylcyclohexane	UG/L	NA				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P1	GW03-003A-P1
Sample ID		GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	12/12/03	09/26/03	12/02/03	03/01/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L	NA				
Styrene	UG/L	NA				
Tetrachloroethene	UG/L	NA				
Toluene	UG/L	NA	0.40 J			
Total Xylenes	UG/L	NA				
Trichloroethene	UG/L	NA				
Vinyl Chloride	UG/L	NA				
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L	NA	NA			
2-Chlorophenol	UG/L	NA	NA			
2-Methylphenol (o-cresol)	UG/L	NA	NA			
4-Methylphenol (p-cresol)	UG/L	NA	NA			
Acetophenone	UG/L	NA	NA			
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA			
Caprolactam	UG/L	NA	NA			
Di-n-octylphthalate	UG/L	NA	NA			
Naphthalene	UG/L	NA	NA			
Phenol	UG/L	NA	NA			
Pyrene	UG/L	NA	NA			
Pesticides						
4,4-DDT	UG/L	NA	NA			
alpha-BHC	UG/L	NA	NA			
beta-BHC	UG/L	NA	NA			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P1	GW03-003A-P1
Sample ID		GW03-002A-P1	GW03-002A-P2	GW03-003A-P1	GW03-003A-P1	GW03-003A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	12/12/03	09/26/03	12/02/03	03/01/04
Parameter	Units					
Pesticides						
delta-BHC	UG/L	NA	NA			
gamma-BHC (Lindane)	UG/L	NA	NA			
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA	NA			
Metals						
Arsenic	UG/L	NA				
Cadmium	UG/L	NA	2.7			
Lead	UG/L	NA	10.7 J			
Miscellaneous Parameters						
Monomethyl Mercury	NG/L		NA			
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	61000	5000	880	170
Total Coliform	C/100 ML	NA				
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-003A-P2	GW03-003A-P2	GW03-003A-P2	GW03-004A-P1	GW03-004A-P1
Sample ID		GW03-003A-P2	GW03-003A-P2	GW03-003A-P2	GW03-004A-P1	GW03-004A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	12/02/03	03/02/04	09/29/03	12/03/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L				1.0	0.42 J
Cyclohexane	UG/L	0.62 J	0.32 J	0.42 J		
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	0.42 J	0.45 J	0.68 J		

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-003A-P2	GW03-003A-P2	GW03-003A-P2	GW03-004A-P1	GW03-004A-P1
Sample ID		GW03-003A-P2	GW03-003A-P2	GW03-003A-P2	GW03-004A-P1	GW03-004A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	12/02/03	03/02/04	09/29/03	12/03/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L	0.52 J				
Total Xylenes	UG/L	0.87 J				
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-003A-P2	GW03-003A-P2	GW03-003A-P2	GW03-004A-P1	GW03-004A-P1
Sample ID		GW03-003A-P2	GW03-003A-P2	GW03-003A-P2	GW03-004A-P1	GW03-004A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/26/03	12/02/03	03/02/04	09/29/03	12/03/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	0.073 B	0.098 B	0.108 B	0.165 B	0.253
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	6000	30000	200	27000	3400
Total Coliform	C/100 ML	20			160	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-004A-P2	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-004A-P2	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	09/29/03	12/03/03	03/01/04	10/06/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L			2.2	0.53 J	
Ethylbenzene	UG/L			0.45 J		
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L			1.1		

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-004A-P2	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-004A-P2	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	09/29/03	12/03/03	03/01/04	10/06/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L			0.62 J		
Total Xylenes	UG/L			2.6 J		
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L			7 J	9 J	
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L	NA				
alpha-BHC	UG/L	NA				
beta-BHC	UG/L	NA				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-004A-P1	GW03-004A-P2	GW03-004A-P2	GW03-004A-P2	GW03-005A-P1
Sample ID		GW03-004A-P1	GW03-004A-P2	GW03-004A-P2	GW03-004A-P2	GW03-005A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	09/29/03	12/03/03	03/01/04	10/06/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L	NA				
gamma-BHC (Lindane)	UG/L	NA				
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	0.944 J	0.524	0.761	0.864 J	
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	3000	4300	35000	1800	95
Total Coliform	C/100 ML			30		
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	POS	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-005A-P1	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2	GW03-005A-P2
Sample ID		GW03-005A-P1	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/08/03	03/10/04	10/08/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L		NA			
1,1,2,2-Tetrachloroethane	UG/L		NA			
1,1,2-Trichloroethane	UG/L		NA			
1,1-Dichloroethane	UG/L		NA			
1,1-Dichloroethene	UG/L		NA			
1,2,4-Trichlorobenzene	UG/L		NA			
1,2-Dichlorobenzene	UG/L		NA			
1,2-Dichloroethane	UG/L		NA			
1,2-Dichloroethene (cis)	UG/L		NA			
1,2-Dichloroethene (trans)	UG/L		NA			
1,3-Dichlorobenzene	UG/L		NA			
1,4-Dichlorobenzene	UG/L		NA			
Acetone	UG/L		NA			
Benzene	UG/L		NA		280	160
Carbon Disulfide	UG/L		NA		3.0 J	1.6 J
Chlorobenzene	UG/L		NA			
Chloroform	UG/L		NA			
Cyclohexane	UG/L		NA		88	83
Ethylbenzene	UG/L		NA		18	13
Isopropylbenzene (Cumene)	UG/L		NA			1.7 J
Methyl Ethyl Ketone (2-Butanone)	UG/L		NA			
Methyl tert-butyl ether	UG/L		NA			
Methylcyclohexane	UG/L		NA		51	50

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-005A-P1	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2	GW03-005A-P2
Sample ID		GW03-005A-P1	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/08/03	03/10/04	10/08/03	12/10/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L		NA		7.3 J	
Styrene	UG/L		NA			
Tetrachloroethene	UG/L		NA			
Toluene	UG/L		NA		270	120
Total Xylenes	UG/L		NA		150	91
Trichloroethene	UG/L		NA			
Vinyl Chloride	UG/L		NA			
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L		NA		NA	
2-Chlorophenol	UG/L		NA		NA	
2-Methylphenol (o-cresol)	UG/L		NA		NA	
4-Methylphenol (p-cresol)	UG/L		NA		NA	
Acetophenone	UG/L		NA		NA	
bis(2-Ethylhexyl)phthalate	UG/L		NA		NA	7 J
Caprolactam	UG/L		NA		NA	7 J
Di-n-octylphthalate	UG/L		NA		NA	
Naphthalene	UG/L		NA		NA	
Phenol	UG/L		NA		NA	
Pyrene	UG/L		NA		NA	
Pesticides						
4,4-DDT	UG/L		NA		NA	
alpha-BHC	UG/L		NA		NA	
beta-BHC	UG/L		NA		NA	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-005A-P1	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2	GW03-005A-P2
Sample ID		GW03-005A-P1	GW03-005A-P1	GW03-005A-P1	GW03-005A-P2	GW03-005A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	12/08/03	03/10/04	10/08/03	12/10/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L		NA		NA	
gamma-BHC (Lindane)	UG/L		NA		NA	
Polychlorinated Biphenyls						
Aroclor 1242	UG/L		NA		NA	
Metals						
Arsenic	UG/L		NA		45.5	16.8
Cadmium	UG/L		NA			
Lead	UG/L		NA		43.3	21.5
Miscellaneous Parameters						
Monomethyl Mercury	NG/L		NA		1.370	0.140 B
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	59	3 J	2900	8100
Total Coliform	C/100 ML	NA			200	60
Fecal Coliform	C/100 ML	NA	NA	NA	NA	
E Coli	POS/NEG	NA	NEG	NEG	NA	POS

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P1	GW03-006A-P1	GW03-006A-P5
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P1	GW03-006A-P1	GW03-006A-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	10/01/03	12/02/03	03/02/04	10/01/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L	150				
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L	83				
Ethylbenzene	UG/L	12				
Isopropylbenzene (Cumene)	UG/L	1.4 J				
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L		0.71 J	0.83 J	0.52 J	
Methylcyclohexane	UG/L	50				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P1	GW03-006A-P1	GW03-006A-P5
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P1	GW03-006A-P1	GW03-006A-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	10/01/03	12/02/03	03/02/04	10/01/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L	82				
Total Xylenes	UG/L	56				
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L	12				
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L	2 J				
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P1	GW03-006A-P1	GW03-006A-P5
Sample ID		GW03-005A-P2	GW03-006A-P1	GW03-006A-P1	GW03-006A-P1	GW03-006A-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/11/04	10/01/03	12/02/03	03/02/04	10/01/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L	16.7				
Cadmium	UG/L					
Lead	UG/L	35.0				
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	0.266	0.109 B	0.097 B	0.107 B	
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	12000	420	970	64	1 J
Total Coliform	C/100 ML	110				
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	POS	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-006A-P5	GW03-006A-P5	GW03-006B-P2	GW03-006B-P2	GW03-006B-P2
Sample ID		GW03-006A-P5	GW03-006A-P5	GW03-006B-P2	GW03-006B-P2	GW03-006B-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/03/04	10/01/03	12/08/03	03/03/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-006A-P5	GW03-006A-P5	GW03-006B-P2	GW03-006B-P2	GW03-006B-P2
Sample ID		GW03-006A-P5	GW03-006A-P5	GW03-006B-P2	GW03-006B-P2	GW03-006B-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/03/04	10/01/03	12/08/03	03/03/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-006A-P5	GW03-006A-P5	GW03-006B-P2	GW03-006B-P2	GW03-006B-P2
Sample ID		GW03-006A-P5	GW03-006A-P5	GW03-006B-P2	GW03-006B-P2	GW03-006B-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/03/04	10/01/03	12/08/03	03/03/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L					
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	120	56	1500	870	270
Total Coliform	C/100 ML	20		20		
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/08/03	12/08/03	03/03/04	10/01/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L		NA			
1,1,2,2-Tetrachloroethane	UG/L		NA			
1,1,2-Trichloroethane	UG/L		NA			
1,1-Dichloroethane	UG/L		NA			
1,1-Dichloroethene	UG/L		NA			
1,2,4-Trichlorobenzene	UG/L		NA			
1,2-Dichlorobenzene	UG/L		NA			
1,2-Dichloroethane	UG/L		NA			
1,2-Dichloroethene (cis)	UG/L		NA			
1,2-Dichloroethene (trans)	UG/L		NA			
1,3-Dichlorobenzene	UG/L		NA			
1,4-Dichlorobenzene	UG/L		NA			
Acetone	UG/L		NA			
Benzene	UG/L		NA			
Carbon Disulfide	UG/L		NA			
Chlorobenzene	UG/L		NA			
Chloroform	UG/L		NA			
Cyclohexane	UG/L		NA			0.26 J
Ethylbenzene	UG/L		NA			
Isopropylbenzene (Cumene)	UG/L		NA			
Methyl Ethyl Ketone (2-Butanone)	UG/L		NA			
Methyl tert-butyl ether	UG/L		NA			
Methylcyclohexane	UG/L		NA			0.78 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/08/03	12/08/03	03/03/04	10/01/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L		NA			
Styrene	UG/L		NA			
Tetrachloroethene	UG/L		NA			
Toluene	UG/L		NA			
Total Xylenes	UG/L		NA			
Trichloroethene	UG/L		NA			
Vinyl Chloride	UG/L		NA			
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L		NA			
2-Chlorophenol	UG/L		NA			
2-Methylphenol (o-cresol)	UG/L		NA			
4-Methylphenol (p-cresol)	UG/L		NA			
Acetophenone	UG/L		NA			
bis(2-Ethylhexyl)phthalate	UG/L		NA			
Caprolactam	UG/L		NA			
Di-n-octylphthalate	UG/L		NA			
Naphthalene	UG/L		NA			
Phenol	UG/L		NA			
Pyrene	UG/L		NA			
Pesticides						
4,4-DDT	UG/L	NA				
alpha-BHC	UG/L	NA				
beta-BHC	UG/L	NA				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-007A-P1
Sample ID		GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-006B-P4	GW03-007A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/08/03	12/08/03	03/03/04	10/01/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L	NA				
gamma-BHC (Lindane)	UG/L	NA				
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA				
Metals						
Arsenic	UG/L		NA			
Cadmium	UG/L		NA			
Lead	UG/L		NA			
Miscellaneous Parameters						
Monomethyl Mercury	NG/L		NA			
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	5200	NA	520	190	1700
Total Coliform	C/100 ML	20	NA			20
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007A-P1	GW03-007A-P1	GW03-007A-P2	GW03-007A-P2	GW03-007A-P2
Sample ID		GW03-007A-P1	GW03-007A-P1	GW03-007A-P2	GW03-007A-P2	GW03-007A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/27/04	10/02/03	12/10/03	03/01/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L		0.29 J			
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L	0.24 J	1.4			
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	0.35 J	0.94 J			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007A-P1	GW03-007A-P1	GW03-007A-P2	GW03-007A-P2	GW03-007A-P2
Sample ID		GW03-007A-P1	GW03-007A-P1	GW03-007A-P2	GW03-007A-P2	GW03-007A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/27/04	10/02/03	12/10/03	03/01/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007A-P1	GW03-007A-P1	GW03-007A-P2	GW03-007A-P2	GW03-007A-P2
Sample ID		GW03-007A-P1	GW03-007A-P1	GW03-007A-P2	GW03-007A-P2	GW03-007A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/27/04	10/02/03	12/10/03	03/01/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L					
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	5600	170	870	66	14 J
Total Coliform	C/100 ML	120				
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/08/03	12/11/03	02/27/04	10/01/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L		NA			
1,1,2,2-Tetrachloroethane	UG/L		NA			
1,1,2-Trichloroethane	UG/L		NA			
1,1-Dichloroethane	UG/L		NA			
1,1-Dichloroethene	UG/L		NA			
1,2,4-Trichlorobenzene	UG/L		NA			
1,2-Dichlorobenzene	UG/L		NA			
1,2-Dichloroethane	UG/L		NA			
1,2-Dichloroethene (cis)	UG/L		NA			
1,2-Dichloroethene (trans)	UG/L		NA			
1,3-Dichlorobenzene	UG/L		NA			
1,4-Dichlorobenzene	UG/L		NA			
Acetone	UG/L		NA	14 J		
Benzene	UG/L	21	NA	20	24	
Carbon Disulfide	UG/L		NA	1.3	0.69 J	
Chlorobenzene	UG/L		NA			
Chloroform	UG/L		NA			
Cyclohexane	UG/L	19	NA	19	22	
Ethylbenzene	UG/L	2.9	NA	3.2	3.4	
Isopropylbenzene (Cumene)	UG/L	0.54 J	NA	0.70 J	0.68 J	
Methyl Ethyl Ketone (2-Butanone)	UG/L		NA			
Methyl tert-butyl ether	UG/L		NA			
Methylcyclohexane	UG/L	12	NA	12	14	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/08/03	12/11/03	02/27/04	10/01/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L		NA			
Styrene	UG/L		NA			
Tetrachloroethene	UG/L		NA			
Toluene	UG/L		NA	3.0	0.51 J	
Total Xylenes	UG/L	4.1	NA	4.3	4.8	
Trichloroethene	UG/L		NA			
Vinyl Chloride	UG/L		NA			
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L		NA			
2-Chlorophenol	UG/L		NA			
2-Methylphenol (o-cresol)	UG/L		NA			
4-Methylphenol (p-cresol)	UG/L		NA			
Acetophenone	UG/L		NA			
bis(2-Ethylhexyl)phthalate	UG/L	40	NA	21	13 U	
Caprolactam	UG/L		NA	7 J	12	
Di-n-octylphthalate	UG/L		NA			
Naphthalene	UG/L		NA			
Phenol	UG/L		NA			
Pyrene	UG/L		NA			
Pesticides						
4,4-DDT	UG/L		NA			
alpha-BHC	UG/L		NA			
beta-BHC	UG/L		NA			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Sample ID		GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007A-P3	GW03-007B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/03/03	10/08/03	12/11/03	02/27/04	10/01/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L		NA			
gamma-BHC (Lindane)	UG/L		NA			
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA				
Metals						
Arsenic	UG/L	75.9	NA	36.5	16.7	
Cadmium	UG/L		NA			
Lead	UG/L		NA			
Miscellaneous Parameters						
Monomethyl Mercury	NG/L		NA			
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	81	NA	180	150	33
Total Coliform	C/100 ML	20	NA		720	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007B-P4	GW03-007B-P4	GW03-007B-P5	GW03-007B-P5	GW03-007B-P5
Sample ID		GW03-007B-P4	GW03-007B-P4	GW03-007B-P5	GW03-007B-P5	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/26/04	10/14/03	12/11/03	02/26/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L			3.1 J	35 J	16 J
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L				10 J	
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007B-P4	GW03-007B-P4	GW03-007B-P5	GW03-007B-P5	GW03-007B-P5
Sample ID		GW03-007B-P4	GW03-007B-P4	GW03-007B-P5	GW03-007B-P5	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/26/04	10/14/03	12/11/03	02/26/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					0.52 J
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L				30 J	18
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-007B-P4	GW03-007B-P4	GW03-007B-P5	GW03-007B-P5	GW03-007B-P5
Sample ID		GW03-007B-P4	GW03-007B-P4	GW03-007B-P5	GW03-007B-P5	GW03-007B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/26/04	10/14/03	12/11/03	02/26/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L			0.151 B	0.118 B	0.062 BJ
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	450	230	9800	8300	1000
Total Coliform	C/100 ML	30		20	20	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008A-P1	GW03-008A-P1	GW03-008A-P1	GW03-008A-P2	GW03-008A-P2
Sample ID		GW03-008A-P1	GW03-008A-P1	GW03-008A-P1	GW03-008A-P2	GW03-008A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	12/03/03	03/02/04	10/08/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L				0.27 J	
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008A-P1	GW03-008A-P1	GW03-008A-P1	GW03-008A-P2	GW03-008A-P2
Sample ID		GW03-008A-P1	GW03-008A-P1	GW03-008A-P1	GW03-008A-P2	GW03-008A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	12/03/03	03/02/04	10/08/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008A-P1	GW03-008A-P1	GW03-008A-P1	GW03-008A-P2	GW03-008A-P2
Sample ID		GW03-008A-P1	GW03-008A-P1	GW03-008A-P1	GW03-008A-P2	GW03-008A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	12/03/03	03/02/04	10/08/03	12/04/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L					
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	660	610	140	67 J	250
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008A-P3	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008A-P3	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	10/08/03	12/03/03	03/02/04	09/29/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L		4.6 J			
Benzene	UG/L					
Carbon Disulfide	UG/L		1.1	1.8	1.5	
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L		1.1	0.70 J		
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	0.42 J	0.80 J	0.96 J	0.54 J	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008A-P3	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008A-P3	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	10/08/03	12/03/03	03/02/04	09/29/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L		1.6 J			
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008A-P2	GW03-008A-P3	GW03-008A-P3	GW03-008A-P3	GW03-008B-P4
Sample ID		GW03-008A-P2	GW03-008A-P3	GW03-008A-P3	GW03-008A-P3	GW03-008B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/02/04	10/08/03	12/03/03	03/02/04	09/29/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L			16.2	25.8	
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L					
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	19 J	360 J	460	1 U	590
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008B-P4	GW03-008B-P4	GW03-008B-P5	GW03-008B-P5	GW03-008B-P5
Sample ID		GW03-008B-P4	GW03-008B-P4	GW03-008B-P5	GW03-008B-P5	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/01/04	09/30/03	12/03/03	03/02/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008B-P4	GW03-008B-P4	GW03-008B-P5	GW03-008B-P5	GW03-008B-P5
Sample ID		GW03-008B-P4	GW03-008B-P4	GW03-008B-P5	GW03-008B-P5	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/01/04	09/30/03	12/03/03	03/02/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008B-P4	GW03-008B-P4	GW03-008B-P5	GW03-008B-P5	GW03-008B-P5
Sample ID		GW03-008B-P4	GW03-008B-P4	GW03-008B-P5	GW03-008B-P5	GW03-008B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/01/04	09/30/03	12/03/03	03/02/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L					
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	760	120	680	99	210
Total Coliform	C/100 ML		80			
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008B-P6	GW03-009A-P1	GW03-009A-P1	GW03-009A-P1	GW03-009A-P2
Sample ID		GW03-008B-P6	GW03-009A-P1	GW03-009A-P1	GW03-009A-P1	GW03-009A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	09/29/03	12/05/03	03/05/04	10/09/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L	2.5 J				
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					180 D
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008B-P6	GW03-009A-P1	GW03-009A-P1	GW03-009A-P1	GW03-009A-P2
Sample ID		GW03-008B-P6	GW03-009A-P1	GW03-009A-P1	GW03-009A-P1	GW03-009A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	09/29/03	12/05/03	03/05/04	10/09/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L	22				
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-008B-P6	GW03-009A-P1	GW03-009A-P1	GW03-009A-P1	GW03-009A-P2
Sample ID		GW03-008B-P6	GW03-009A-P1	GW03-009A-P1	GW03-009A-P1	GW03-009A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	09/29/03	12/05/03	03/05/04	10/09/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L	1.8				
Lead	UG/L	78.9				
Miscellaneous Parameters						
Monomethyl Mercury	NG/L					NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	20000	580	300	150	170 J
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009A-P2	GW03-009A-P2	GW03-009A-P3	GW03-009A-P3	GW03-009A-P3
Sample ID		GW03-009A-P2	GW03-009A-P2	GW03-009A-P3	GW03-009A-P3	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	03/08/04	10/13/03	12/16/03	03/09/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L			100 D	94	81
Carbon Disulfide	UG/L				4.3 J	
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L			110 D	82	90
Ethylbenzene	UG/L			21	21	16
Isopropylbenzene (Cumene)	UG/L			2.4	2.6 J	1.9 J
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L	100	180			
Methylcyclohexane	UG/L			45 D	47	41

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009A-P2	GW03-009A-P2	GW03-009A-P3	GW03-009A-P3	GW03-009A-P3
Sample ID		GW03-009A-P2	GW03-009A-P2	GW03-009A-P3	GW03-009A-P3	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	03/08/04	10/13/03	12/16/03	03/09/04
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L			190 D	180	160
Total Xylenes	UG/L			130 D	160	120
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L			4 J	5 J	4 J
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L			4 J	5 J	5 J
4-Methylphenol (p-cresol)	UG/L			7 J	9 J	6 J
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L				26	46
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L			3 J	4 J	3 J
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009A-P2	GW03-009A-P2	GW03-009A-P3	GW03-009A-P3	GW03-009A-P3
Sample ID		GW03-009A-P2	GW03-009A-P2	GW03-009A-P3	GW03-009A-P3	GW03-009A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/05/03	03/08/04	10/13/03	12/16/03	03/09/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L			13.0	20.3	13.8
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L				0.154 B	
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	160	89	440	340 J	1100
Total Coliform	C/100 ML		100			
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009B-P4	GW03-009B-P4	GW03-009B-P4	GW03-009B-P5	GW03-009B-P5
Sample ID		GW03-009B-P4	GW03-009B-P4	GW03-009B-P4	GW03-009B-P5	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	12/05/03	03/03/04	09/29/03	12/05/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L	20	86 D	68	48 D	110 D
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009B-P4	GW03-009B-P4	GW03-009B-P4	GW03-009B-P5	GW03-009B-P5
Sample ID		GW03-009B-P4	GW03-009B-P4	GW03-009B-P4	GW03-009B-P5	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	12/05/03	03/03/04	09/29/03	12/05/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009B-P4	GW03-009B-P4	GW03-009B-P4	GW03-009B-P5	GW03-009B-P5
Sample ID		GW03-009B-P4	GW03-009B-P4	GW03-009B-P4	GW03-009B-P5	GW03-009B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	12/05/03	03/03/04	09/29/03	12/05/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L	3.0	2.4		3.2	2.3
Lead	UG/L				9.0	
Miscellaneous Parameters						
Monomethyl Mercury	NG/L					
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	260	430	170	16000	580
Total Coliform	C/100 ML	60			20	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009B-P5	GW03-009B-P6	GW03-009B-P6	GW03-009B-P6	GW03-010A-P1
Sample ID		GW03-009B-P5	GW03-009B-P6	GW03-009B-P6	GW03-009B-P6	GW03-010A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	09/30/03	12/08/03	03/03/04	10/09/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					0.23 J
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L	28 J	32	120 D	5.4	
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009B-P5	GW03-009B-P6	GW03-009B-P6	GW03-009B-P6	GW03-010A-P1
Sample ID		GW03-009B-P5	GW03-009B-P6	GW03-009B-P6	GW03-009B-P6	GW03-010A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	09/30/03	12/08/03	03/03/04	10/09/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-009B-P5	GW03-009B-P6	GW03-009B-P6	GW03-009B-P6	GW03-010A-P1
Sample ID		GW03-009B-P5	GW03-009B-P6	GW03-009B-P6	GW03-009B-P6	GW03-010A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/03/04	09/30/03	12/08/03	03/03/04	10/09/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L	1.0	2.9	2.3		
Lead	UG/L				7.1	
Miscellaneous Parameters						
Monomethyl Mercury	NG/L					NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1600	3500	260	190	140 J
Total Coliform	C/100 ML	60	20			
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010A-P1	GW03-010A-P1	GW03-010A-P2	GW03-010A-P2	GW03-010A-P2
Sample ID		GW03-010A-P1	GW03-010A-P1	GW03-010A-P2	GW03-010A-P2	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/25/04	10/13/03	12/03/03	02/27/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L		6.8 J			
Benzene	UG/L					
Carbon Disulfide	UG/L	0.24 J	0.41 J			
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L			2.1	3.2	2.5
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010A-P1	GW03-010A-P1	GW03-010A-P2	GW03-010A-P2	GW03-010A-P2
Sample ID		GW03-010A-P1	GW03-010A-P1	GW03-010A-P2	GW03-010A-P2	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/25/04	10/13/03	12/03/03	02/27/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L		12			
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010A-P1	GW03-010A-P1	GW03-010A-P2	GW03-010A-P2	GW03-010A-P2
Sample ID		GW03-010A-P1	GW03-010A-P1	GW03-010A-P2	GW03-010A-P2	GW03-010A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/25/04	10/13/03	12/03/03	02/27/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	55	52			10 J
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010A-P3	GW03-010A-P3	GW03-010A-P3	GW03-010B-P4	GW03-010B-P4
Sample ID		GW03-010A-P3	GW03-010A-P3	GW03-010A-P3	GW03-010B-P4	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	12/19/03	03/02/04	09/26/03	12/02/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L	6.7 J	8.5 J	63		
Benzene	UG/L					
Carbon Disulfide	UG/L	0.37 J	0.57 J	1.3		
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L			36 J		
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010A-P3	GW03-010A-P3	GW03-010A-P3	GW03-010B-P4	GW03-010B-P4
Sample ID		GW03-010A-P3	GW03-010A-P3	GW03-010A-P3	GW03-010B-P4	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	12/19/03	03/02/04	09/26/03	12/02/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L		1.7	4.9		
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L	NA				
2-Chlorophenol	UG/L	NA				
2-Methylphenol (o-cresol)	UG/L	NA				
4-Methylphenol (p-cresol)	UG/L	NA				
Acetophenone	UG/L	NA				
bis(2-Ethylhexyl)phthalate	UG/L	NA				
Caprolactam	UG/L	NA	23	35		
Di-n-octylphthalate	UG/L	NA				
Naphthalene	UG/L	NA				
Phenol	UG/L	NA	2 J	2 J		
Pyrene	UG/L	NA				
Pesticides						
4,4-DDT	UG/L	NA				
alpha-BHC	UG/L	NA				
beta-BHC	UG/L	NA				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010A-P3	GW03-010A-P3	GW03-010A-P3	GW03-010B-P4	GW03-010B-P4
Sample ID		GW03-010A-P3	GW03-010A-P3	GW03-010A-P3	GW03-010B-P4	GW03-010B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	12/19/03	03/02/04	09/26/03	12/02/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L	NA				
gamma-BHC (Lindane)	UG/L	NA				
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA				
Metals						
Arsenic	UG/L	NA		11.2	19.9	16.3
Cadmium	UG/L	NA		1.2		
Lead	UG/L	NA	7.2	25.6		
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	15000	5300	660	710
Total Coliform	C/100 ML	NA				
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010B-P4	GW03-010B-P5	GW03-010B-P5	GW03-010B-P5	GW03-010B-P6
Sample ID		GW03-010B-P4	GW03-010B-P5	GW03-010B-P5	GW03-010B-P5	GW03-010B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	10/08/03	12/03/03	03/01/04	10/09/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L		0.37 J			1.0
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010B-P4	GW03-010B-P5	GW03-010B-P5	GW03-010B-P5	GW03-010B-P6
Sample ID		GW03-010B-P4	GW03-010B-P5	GW03-010B-P5	GW03-010B-P5	GW03-010B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	10/08/03	12/03/03	03/01/04	10/09/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010B-P4	GW03-010B-P5	GW03-010B-P5	GW03-010B-P5	GW03-010B-P6
Sample ID		GW03-010B-P4	GW03-010B-P5	GW03-010B-P5	GW03-010B-P5	GW03-010B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	10/08/03	12/03/03	03/01/04	10/09/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	120	140	100	95	26 J
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010B-P6	GW03-010B-P6	GW03-010C-P7	GW03-010C-P7	GW03-010C-P7
Sample ID		GW03-010B-P6	GW03-010B-P6	GW03-010C-P7	GW03-010C-P7	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/01/04	09/26/03	12/02/03	03/01/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L				0.25 J	
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L	1.6	2.2 J			
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010B-P6	GW03-010B-P6	GW03-010C-P7	GW03-010C-P7	GW03-010C-P7
Sample ID		GW03-010B-P6	GW03-010B-P6	GW03-010C-P7	GW03-010C-P7	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/01/04	09/26/03	12/02/03	03/01/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-010B-P6	GW03-010B-P6	GW03-010C-P7	GW03-010C-P7	GW03-010C-P7
Sample ID		GW03-010B-P6	GW03-010B-P6	GW03-010C-P7	GW03-010C-P7	GW03-010C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/03/03	03/01/04	09/26/03	12/02/03	03/01/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					4.8
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	230	160	170	950	390
Total Coliform	C/100 ML	60	40		90	160
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	POS	POS	NA	POS	POS

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011A-P1	GW03-011A-P1	GW03-011A-P1	GW03-011A-P2	GW03-011A-P2
Sample ID		GW03-011A-P1	GW03-011A-P1	GW03-011A-P1	GW03-011A-P2	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	12/02/03	03/04/04	10/14/03	12/02/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L				0.43 J	0.44 J
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L				0.61 J	0.45 J
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011A-P1	GW03-011A-P1	GW03-011A-P1	GW03-011A-P2	GW03-011A-P2
Sample ID		GW03-011A-P1	GW03-011A-P1	GW03-011A-P1	GW03-011A-P2	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	12/02/03	03/04/04	10/14/03	12/02/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011A-P1	GW03-011A-P1	GW03-011A-P1	GW03-011A-P2	GW03-011A-P2
Sample ID		GW03-011A-P1	GW03-011A-P1	GW03-011A-P1	GW03-011A-P2	GW03-011A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/09/03	12/02/03	03/04/04	10/14/03	12/02/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	32	110	160	94	160
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011A-P2	GW03-011A-P3	GW03-011A-P3	GW03-011A-P3	GW03-011B-P4
Sample ID		GW03-011A-P2	GW03-011A-P3	GW03-011A-P3	GW03-011A-P3	GW03-011B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	10/13/03	12/03/03	03/04/04	09/25/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L				3.1 J	
Benzene	UG/L		0.38 J	0.40 J	1.0	
Carbon Disulfide	UG/L	0.37 J	1.7 J	2.0	1.9	
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L		0.71 J	0.28 J	1.2	
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011A-P2	GW03-011A-P3	GW03-011A-P3	GW03-011A-P3	GW03-011B-P4
Sample ID		GW03-011A-P2	GW03-011A-P3	GW03-011A-P3	GW03-011A-P3	GW03-011B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	10/13/03	12/03/03	03/04/04	09/25/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L		0.89 J	0.74 J	1.8	
Total Xylenes	UG/L				2.0 J	
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L				8 J	
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011A-P2	GW03-011A-P3	GW03-011A-P3	GW03-011A-P3	GW03-011B-P4
Sample ID		GW03-011A-P2	GW03-011A-P3	GW03-011A-P3	GW03-011A-P3	GW03-011B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	10/13/03	12/03/03	03/04/04	09/25/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L		14.9	12.1	10.8	
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	16 J		2 J	1 U	2000
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P7
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	03/03/04	09/25/03	12/02/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L		NA			
1,1,2,2-Tetrachloroethane	UG/L		NA			
1,1,2-Trichloroethane	UG/L		NA			
1,1-Dichloroethane	UG/L		NA			
1,1-Dichloroethene	UG/L		NA			
1,2,4-Trichlorobenzene	UG/L		NA			
1,2-Dichlorobenzene	UG/L		NA			
1,2-Dichloroethane	UG/L		NA			
1,2-Dichloroethene (cis)	UG/L		NA			
1,2-Dichloroethene (trans)	UG/L		NA			
1,3-Dichlorobenzene	UG/L		NA			
1,4-Dichlorobenzene	UG/L		NA			
Acetone	UG/L		NA			
Benzene	UG/L		NA			
Carbon Disulfide	UG/L	0.34 J	NA			0.33 J
Chlorobenzene	UG/L		NA			
Chloroform	UG/L		NA			
Cyclohexane	UG/L		NA			
Ethylbenzene	UG/L		NA			
Isopropylbenzene (Cumene)	UG/L		NA			
Methyl Ethyl Ketone (2-Butanone)	UG/L		NA			
Methyl tert-butyl ether	UG/L		NA			
Methylcyclohexane	UG/L		NA			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P7
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	03/03/04	09/25/03	12/02/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L		NA			
Styrene	UG/L		NA			
Tetrachloroethene	UG/L		NA			
Toluene	UG/L		NA			
Total Xylenes	UG/L		NA			
Trichloroethene	UG/L		NA			
Vinyl Chloride	UG/L		NA			
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L		NA			
2-Chlorophenol	UG/L		NA			
2-Methylphenol (o-cresol)	UG/L		NA			
4-Methylphenol (p-cresol)	UG/L		NA			
Acetophenone	UG/L		NA			
bis(2-Ethylhexyl)phthalate	UG/L		NA			
Caprolactam	UG/L		NA			
Di-n-octylphthalate	UG/L		NA			
Naphthalene	UG/L		NA			
Phenol	UG/L		NA			
Pyrene	UG/L		NA			
Pesticides						
4,4-DDT	UG/L	NA				
alpha-BHC	UG/L	NA				
beta-BHC	UG/L	NA				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011B-P4	GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P7
Sample ID		GW03-011B-P4	GW03-011B-P4	GW03-011B-P4	GW03-011C-P7	GW03-011C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/02/03	12/03/03	03/03/04	09/25/03	12/02/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L	NA				
gamma-BHC (Lindane)	UG/L	NA				
Polychlorinated Biphenyls						
Aroclor 1242	UG/L		NA			
Metals						
Arsenic	UG/L		NA			
Cadmium	UG/L		NA			
Lead	UG/L		NA			
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	310	NA	340	410 J	42000
Total Coliform	C/100 ML		NA			
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011C-P7	GW03-011C-P8	GW03-011C-P8	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011C-P7	GW03-011C-P8	GW03-011C-P8	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	09/25/03	12/03/03	03/03/04	10/10/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011C-P7	GW03-011C-P8	GW03-011C-P8	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011C-P7	GW03-011C-P8	GW03-011C-P8	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	09/25/03	12/03/03	03/03/04	10/10/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L		1.8			
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-011C-P7	GW03-011C-P8	GW03-011C-P8	GW03-011C-P8	GW03-012A-P2
Sample ID		GW03-011C-P7	GW03-011C-P8	GW03-011C-P8	GW03-011C-P8	GW03-012A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	09/25/03	12/03/03	03/03/04	10/10/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					1.3
Lead	UG/L					6.3 J
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	210	610	390	4 J	370
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012A-P2	GW03-012A-P2	GW03-012A-P3	GW03-012A-P3	GW03-012A-P3
Sample ID		GW03-012A-P2	GW03-012A-P2	GW03-012A-P3	GW03-012A-P3	GW03-012A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	03/03/04	10/15/03	12/19/03	03/04/04
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L				52 J	120 J
Benzene	UG/L			90 D	110	100
Carbon Disulfide	UG/L					1.5 J
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L			1.1 J	15	22
Ethylbenzene	UG/L				3.4 J	4.1 J
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L			9.6 J	30	53
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L				3.0 J	3.5 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012A-P2	GW03-012A-P2	GW03-012A-P3	GW03-012A-P3	GW03-012A-P3
Sample ID		GW03-012A-P2	GW03-012A-P2	GW03-012A-P3	GW03-012A-P3	GW03-012A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	03/03/04	10/15/03	12/19/03	03/04/04
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L			22	55	61
Total Xylenes	UG/L			5.8 J	38	44
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L			3 J	4 J	3 J
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L			3 J	4 J	3 J
4-Methylphenol (p-cresol)	UG/L			6 J	5 J	4 J
Acetophenone	UG/L					7 J
bis(2-Ethylhexyl)phthalate	UG/L			41		
Caprolactam	UG/L				25	86
Di-n-octylphthalate	UG/L	7 J				
Naphthalene	UG/L					
Phenol	UG/L			6 J	10	17
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012A-P2	GW03-012A-P2	GW03-012A-P3	GW03-012A-P3	GW03-012A-P3
Sample ID		GW03-012A-P2	GW03-012A-P2	GW03-012A-P3	GW03-012A-P3	GW03-012A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	03/03/04	10/15/03	12/19/03	03/04/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L			11.8 J		
Cadmium	UG/L		2.0			2.1
Lead	UG/L	9.7		60.1	38.9 J	32.6
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	230	130	1,200 J	1100	1700
Total Coliform	C/100 ML		40			80
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012B-P4	GW03-012B-P5	GW03-012B-P5	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-012B-P4	GW03-012B-P5	GW03-012B-P5	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	10/09/03	12/16/03	03/03/04	10/09/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L			9.1 J		
Benzene	UG/L					
Carbon Disulfide	UG/L			1.8	0.30 J	
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L		0.65 J	0.34 J	0.70 J	
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L				2.0	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012B-P4	GW03-012B-P5	GW03-012B-P5	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-012B-P4	GW03-012B-P5	GW03-012B-P5	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	10/09/03	12/16/03	03/03/04	10/09/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L			1.4	0.76 J	
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L	NA				
2-Chlorophenol	UG/L	NA				
2-Methylphenol (o-cresol)	UG/L	NA				
4-Methylphenol (p-cresol)	UG/L	NA				
Acetophenone	UG/L	NA				
bis(2-Ethylhexyl)phthalate	UG/L	NA				
Caprolactam	UG/L	NA	17	60	8 J	
Di-n-octylphthalate	UG/L	NA				
Naphthalene	UG/L	NA				
Phenol	UG/L	NA				
Pyrene	UG/L	NA				
Pesticides						
4,4-DDT	UG/L	NA				
alpha-BHC	UG/L	NA				
beta-BHC	UG/L	NA				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012B-P4	GW03-012B-P5	GW03-012B-P5	GW03-012B-P5	GW03-012B-P6
Sample ID		GW03-012B-P4	GW03-012B-P5	GW03-012B-P5	GW03-012B-P5	GW03-012B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/17/03	10/09/03	12/16/03	03/03/04	10/09/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L	NA				
gamma-BHC (Lindane)	UG/L	NA				
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA				
Metals						
Arsenic	UG/L	NA				
Cadmium	UG/L	NA		1.4		
Lead	UG/L	NA		55.6		
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	6700	44000	2400	670 J
Total Coliform	C/100 ML	NA			60	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012B-P6	GW03-012B-P6	GW03-012C-P7	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012B-P6	GW03-012B-P6	GW03-012C-P7	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	03/03/04	12/15/03	03/03/04	10/08/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L	0.34 J				
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L	0.59 J				
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012B-P6	GW03-012B-P6	GW03-012C-P7	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012B-P6	GW03-012B-P6	GW03-012C-P7	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	03/03/04	12/15/03	03/03/04	10/08/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L	9 J	8 J	6 J		
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-012B-P6	GW03-012B-P6	GW03-012C-P7	GW03-012C-P7	GW03-013A-P1
Sample ID		GW03-012B-P6	GW03-012B-P6	GW03-012C-P7	GW03-012C-P7	GW03-013A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/16/03	03/03/04	12/15/03	03/03/04	10/08/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L			1.1	1.6	
Lead	UG/L				10.0	
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	470	750	6500	3100	2,400 J
Total Coliform	C/100 ML				20	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013A-P1	GW03-013A-P1	GW03-013A-P2	GW03-013A-P2	GW03-013A-P2
Sample ID		GW03-013A-P1	GW03-013A-P1	GW03-013A-P2	GW03-013A-P2	GW03-013A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/26/04	10/14/03	12/04/03	02/25/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013A-P1	GW03-013A-P1	GW03-013A-P2	GW03-013A-P2	GW03-013A-P2
Sample ID		GW03-013A-P1	GW03-013A-P1	GW03-013A-P2	GW03-013A-P2	GW03-013A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/26/04	10/14/03	12/04/03	02/25/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L			0.34 J		0.26 J
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L			0.63 J	0.49 J	0.43 J
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013A-P1	GW03-013A-P1	GW03-013A-P2	GW03-013A-P2	GW03-013A-P2
Sample ID		GW03-013A-P1	GW03-013A-P1	GW03-013A-P2	GW03-013A-P2	GW03-013A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/04/03	02/26/04	10/14/03	12/04/03	02/25/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	740 J	490	600	360	59
Total Coliform	C/100 ML				200	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	POS	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013A-P3	GW03-013A-P3	GW03-013A-P3	GW03-013B-P4	GW03-013B-P4
Sample ID		GW03-013A-P3	GW03-013A-P3	GW03-013A-P3	GW03-013B-P4	GW03-013B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	12/08/03	02/26/04	10/08/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L	0.35 J		0.22 J		
1,4-Dichlorobenzene	UG/L	0.36 J		0.25 J		
Acetone	UG/L					
Benzene	UG/L	0.92 J	0.48 J			
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L	1.7	1.1	1.1		
Chloroform	UG/L					
Cyclohexane	UG/L	2.3 J	1.7			
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	0.86 J	0.93 J			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013A-P3	GW03-013A-P3	GW03-013A-P3	GW03-013B-P4	GW03-013B-P4
Sample ID		GW03-013A-P3	GW03-013A-P3	GW03-013A-P3	GW03-013B-P4	GW03-013B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	12/08/03	02/26/04	10/08/03	12/04/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L	0.90 J				
Total Xylenes	UG/L					
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013A-P3	GW03-013A-P3	GW03-013A-P3	GW03-013B-P4	GW03-013B-P4
Sample ID		GW03-013A-P3	GW03-013A-P3	GW03-013A-P3	GW03-013B-P4	GW03-013B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/13/03	12/08/03	02/26/04	10/08/03	12/04/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	120	16000	79	2,200 J	910
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013B-P4	GW03-013B-P5	GW03-013B-P5	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013B-P4	GW03-013B-P5	GW03-013B-P5	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	10/08/03	12/04/03	02/26/04	10/15/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					5.5 J
Benzene	UG/L					
Carbon Disulfide	UG/L		0.28 J	0.30 J	0.26 J	
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L		0.41 J		0.39 J	0.32 J
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L		0.98 J	0.51 J	0.69 J	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013B-P4	GW03-013B-P5	GW03-013B-P5	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013B-P4	GW03-013B-P5	GW03-013B-P5	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	10/08/03	12/04/03	02/26/04	10/15/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L					
Total Xylenes	UG/L					1.3 J
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L		8 J			
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013B-P4	GW03-013B-P5	GW03-013B-P5	GW03-013B-P5	GW03-013B-P6
Sample ID		GW03-013B-P4	GW03-013B-P5	GW03-013B-P5	GW03-013B-P5	GW03-013B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	10/08/03	12/04/03	02/26/04	10/15/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					NA
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					10.7 J
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	960	320	1500	440	NA
Total Coliform	C/100 ML					NA
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	10/08/03	10/09/03	10/15/03	12/05/03
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L			NA	NA	
1,1,2,2-Tetrachloroethane	UG/L			NA	NA	
1,1,2-Trichloroethane	UG/L			NA	NA	
1,1-Dichloroethane	UG/L			NA	NA	
1,1-Dichloroethene	UG/L			NA	NA	
1,2,4-Trichlorobenzene	UG/L			NA	NA	
1,2-Dichlorobenzene	UG/L			NA	NA	
1,2-Dichloroethane	UG/L			NA	NA	
1,2-Dichloroethene (cis)	UG/L			NA	NA	
1,2-Dichloroethene (trans)	UG/L			NA	NA	
1,3-Dichlorobenzene	UG/L			NA	NA	
1,4-Dichlorobenzene	UG/L			NA	NA	
Acetone	UG/L	9.3 J		NA	NA	
Benzene	UG/L	0.91 J		NA	NA	
Carbon Disulfide	UG/L		0.21 J	NA	NA	
Chlorobenzene	UG/L			NA	NA	
Chloroform	UG/L			NA	NA	
Cyclohexane	UG/L	0.38 J		NA	NA	
Ethylbenzene	UG/L			NA	NA	
Isopropylbenzene (Cumene)	UG/L			NA	NA	
Methyl Ethyl Ketone (2-Butanone)	UG/L			NA	NA	
Methyl tert-butyl ether	UG/L			NA	NA	
Methylcyclohexane	UG/L			NA	NA	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	10/08/03	10/09/03	10/15/03	12/05/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L			NA	NA	
Styrene	UG/L			NA	NA	
Tetrachloroethene	UG/L			NA	NA	
Toluene	UG/L			NA	NA	
Total Xylenes	UG/L			NA	NA	
Trichloroethene	UG/L			NA	NA	
Vinyl Chloride	UG/L			NA	NA	
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L	NA	NA	NA		
2-Chlorophenol	UG/L	NA	NA	NA		
2-Methylphenol (o-cresol)	UG/L	NA	NA	NA		
4-Methylphenol (p-cresol)	UG/L	NA	NA	NA		
Acetophenone	UG/L	NA	NA	NA		
bis(2-Ethylhexyl)phthalate	UG/L	NA	NA	NA		
Caprolactam	UG/L	NA	NA	NA		
Di-n-octylphthalate	UG/L	NA	NA	NA		
Naphthalene	UG/L	NA	NA	NA		
Phenol	UG/L	NA	NA	NA		
Pyrene	UG/L	NA	NA	NA		
Pesticides						
4,4-DDT	UG/L	NA		NA	NA	
alpha-BHC	UG/L	NA		NA	NA	
beta-BHC	UG/L	NA		NA	NA	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7
Sample ID		GW03-013B-P6	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7	GW03-013C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/27/04	10/08/03	10/09/03	10/15/03	12/05/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L	NA		NA	NA	
gamma-BHC (Lindane)	UG/L	NA		NA	NA	
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA	NA		NA	
Metals						
Arsenic	UG/L	NA		NA	NA	
Cadmium	UG/L	NA		NA	NA	
Lead	UG/L	NA		NA	NA	7.4
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	230,000 J	NA	NA	93000
Total Coliform	C/100 ML	NA		NA	NA	20
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NA	NA	NA	POS

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P1	GW03-014A-P1
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P1	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	10/14/03	12/15/03	02/27/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L		NA			
1,1,2,2-Tetrachloroethane	UG/L		NA			
1,1,2-Trichloroethane	UG/L		NA			
1,1-Dichloroethane	UG/L		NA			
1,1-Dichloroethene	UG/L		NA			
1,2,4-Trichlorobenzene	UG/L		NA			
1,2-Dichlorobenzene	UG/L		NA			
1,2-Dichloroethane	UG/L		NA			
1,2-Dichloroethene (cis)	UG/L		NA			
1,2-Dichloroethene (trans)	UG/L		NA			
1,3-Dichlorobenzene	UG/L		NA			
1,4-Dichlorobenzene	UG/L		NA			
Acetone	UG/L		NA			48 J
Benzene	UG/L		NA	0.82 J		0.72 J
Carbon Disulfide	UG/L		NA	7.2 J	1.4	9.1
Chlorobenzene	UG/L		NA			
Chloroform	UG/L		NA			
Cyclohexane	UG/L		NA	1.4 J		1.2
Ethylbenzene	UG/L		NA			0.32 J
Isopropylbenzene (Cumene)	UG/L		NA			
Methyl Ethyl Ketone (2-Butanone)	UG/L		NA			9.4 J
Methyl tert-butyl ether	UG/L		NA			
Methylcyclohexane	UG/L		NA	0.55 J		

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P1	GW03-014A-P1
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P1	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	10/14/03	12/15/03	02/27/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L		NA			
Styrene	UG/L		NA			0.57 J
Tetrachloroethene	UG/L		NA			
Toluene	UG/L		NA	1.9	0.40 J	3.6
Total Xylenes	UG/L		NA			1.0 J
Trichloroethene	UG/L		NA			
Vinyl Chloride	UG/L		NA			
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L	NA				
2-Chlorophenol	UG/L	NA				
2-Methylphenol (o-cresol)	UG/L	NA				
4-Methylphenol (p-cresol)	UG/L	NA				
Acetophenone	UG/L	NA				
bis(2-Ethylhexyl)phthalate	UG/L	NA		7 J		
Caprolactam	UG/L	NA		66	20	21
Di-n-octylphthalate	UG/L	NA				
Naphthalene	UG/L	NA				
Phenol	UG/L	NA				
Pyrene	UG/L	NA				
Pesticides						
4,4-DDT	UG/L	NA				
alpha-BHC	UG/L	NA				
beta-BHC	UG/L	NA				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P1	GW03-014A-P1
Sample ID		GW03-013C-P7	GW03-013C-P7	GW03-014A-P1	GW03-014A-P1	GW03-014A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/26/04	02/27/04	10/14/03	12/15/03	02/27/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L	NA				
gamma-BHC (Lindane)	UG/L	NA				
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA				
Metals						
Arsenic	UG/L		NA	30.7 J	32.3	26.8
Cadmium	UG/L		NA			1.0
Lead	UG/L		NA			15.8
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	44000	NA	NA	2100	1200
Total Coliform	C/100 ML		NA	NA		
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014A-P2	GW03-014A-P2	GW03-014A-P2	GW03-014A-P3	GW03-014A-P3
Sample ID		GW03-014A-P2	GW03-014A-P2	GW03-014A-P2	GW03-014A-P3	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	12/18/03	03/03/04	10/07/03	12/18/03
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L	0.44 J		0.91 J	160	120
Carbon Disulfide	UG/L				1.1 J	
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L	8.5	0.31 J	2.2	37	22
Ethylbenzene	UG/L				8.8	5.8
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	3.1		0.76 J	8.7	5.1

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014A-P2	GW03-014A-P2	GW03-014A-P2	GW03-014A-P3	GW03-014A-P3
Sample ID		GW03-014A-P2	GW03-014A-P2	GW03-014A-P2	GW03-014A-P3	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	12/18/03	03/03/04	10/07/03	12/18/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L			0.42 J	130	95
Total Xylenes	UG/L				90	57
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L		NA		3 J	
2-Chlorophenol	UG/L		NA			
2-Methylphenol (o-cresol)	UG/L		NA		5 J	
4-Methylphenol (p-cresol)	UG/L		NA		7 J	
Acetophenone	UG/L		NA			
bis(2-Ethylhexyl)phthalate	UG/L		NA			
Caprolactam	UG/L		NA	12		
Di-n-octylphthalate	UG/L		NA			
Naphthalene	UG/L		NA			
Phenol	UG/L		NA		12	
Pyrene	UG/L		NA			
Pesticides						
4,4-DDT	UG/L	NA	NA			
alpha-BHC	UG/L	NA	NA			
beta-BHC	UG/L	NA	NA			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014A-P2	GW03-014A-P2	GW03-014A-P2	GW03-014A-P3	GW03-014A-P3
Sample ID		GW03-014A-P2	GW03-014A-P2	GW03-014A-P2	GW03-014A-P3	GW03-014A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/14/03	12/18/03	03/03/04	10/07/03	12/18/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L	NA	NA	0.042 J		
gamma-BHC (Lindane)	UG/L	NA	NA			
Polychlorinated Biphenyls						
Aroclor 1242	UG/L	NA	NA			
Metals						
Arsenic	UG/L				20.2	10.3
Cadmium	UG/L		2.0	1.7		
Lead	UG/L	12.8 J	12.8			
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	16000	79000		1,200 J
Total Coliform	C/100 ML	NA				
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014A-P3	GW03-014B-P4	GW03-014B-P4	GW03-014B-P4	GW03-014B-P5
Sample ID		GW03-014A-P3	GW03-014B-P4	GW03-014B-P4	GW03-014B-P4	GW03-014B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	10/06/03	12/05/03	02/27/04	10/06/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L		0.50 J	0.45 J	0.54 J	0.46 J
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L	150				
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L				0.34 J	
Chloroform	UG/L					
Cyclohexane	UG/L	26				
Ethylbenzene	UG/L	5.9				
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	8.8				

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014A-P3	GW03-014B-P4	GW03-014B-P4	GW03-014B-P4	GW03-014B-P5
Sample ID		GW03-014A-P3	GW03-014B-P4	GW03-014B-P4	GW03-014B-P4	GW03-014B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	10/06/03	12/05/03	02/27/04	10/06/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L	130				
Total Xylenes	UG/L	68				
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					0.91 J
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L	2 J				
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L	4 J				
4-Methylphenol (p-cresol)	UG/L	6 J				
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L	10				
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L	16				
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014A-P3	GW03-014B-P4	GW03-014B-P4	GW03-014B-P4	GW03-014B-P5
Sample ID		GW03-014A-P3	GW03-014B-P4	GW03-014B-P4	GW03-014B-P4	GW03-014B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/01/04	10/06/03	12/05/03	02/27/04	10/06/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L	23.3				
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	80 J	140	28 J	44	170
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014B-P5	GW03-014B-P5	GW03-014B-P6	GW03-014B-P6	GW03-014B-P6
Sample ID		GW03-014B-P5	GW03-014B-P5	GW03-014B-P6	GW03-014B-P6	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	02/25/04	10/07/03	12/08/03	02/25/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	0.49 J	0.52 J	2.1	0.87 J	1.1
1,2-Dichloroethene (trans)	UG/L			0.32 J		0.51 J
1,3-Dichlorobenzene	UG/L			0.37 J	0.42 J	0.33 J
1,4-Dichlorobenzene	UG/L			0.30 J	0.29 J	
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014B-P5	GW03-014B-P5	GW03-014B-P6	GW03-014B-P6	GW03-014B-P6
Sample ID		GW03-014B-P5	GW03-014B-P5	GW03-014B-P6	GW03-014B-P6	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	02/25/04	10/07/03	12/08/03	02/25/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L				1.0	1.0
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L			1.6	1.7	1.6
Vinyl Chloride	UG/L	1.8	2.8			
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L		8 J			
Di-n-octylphthalate	UG/L			8 J		
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L			0.027 J		
beta-BHC	UG/L				0.031 J	

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014B-P5	GW03-014B-P5	GW03-014B-P6	GW03-014B-P6	GW03-014B-P6
Sample ID		GW03-014B-P5	GW03-014B-P5	GW03-014B-P6	GW03-014B-P6	GW03-014B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/08/03	02/25/04	10/07/03	12/08/03	02/25/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L				0.048 J	
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	21 J	210	17 J	47	9 J
Total Coliform	C/100 ML			60	20	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014C-P7	GW03-014C-P7	GW03-014C-P7	GW03-015A-P1	GW03-015A-P1
Sample ID		GW03-014C-P7	GW03-014C-P7	GW03-014C-P7	GW03-015A-P1	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	12/04/03	02/26/04	10/03/03	12/08/03
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L		0.43 J		0.65 J	0.68 J
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014C-P7	GW03-014C-P7	GW03-014C-P7	GW03-015A-P1	GW03-015A-P1
Sample ID		GW03-014C-P7	GW03-014C-P7	GW03-014C-P7	GW03-015A-P1	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	12/04/03	02/26/04	10/03/03	12/08/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					0.35 J
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L				0.80 J	1.1
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					1 J
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					1 J
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-014C-P7	GW03-014C-P7	GW03-014C-P7	GW03-015A-P1	GW03-015A-P1
Sample ID		GW03-014C-P7	GW03-014C-P7	GW03-014C-P7	GW03-015A-P1	GW03-015A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	12/04/03	02/26/04	10/03/03	12/08/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L					0.057 J
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L				0.44 J	
Metals						
Arsenic	UG/L					
Cadmium	UG/L	1.1		3.4		
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	640	580	730	1600	150
Total Coliform	C/100 ML	300	160	120	280	20
Fecal Coliform	C/100 ML	NA		NA	NA	
E Coli	POS/NEG	NA	POS	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	10/13/03	12/10/03	03/10/04	10/14/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	0.96 J				
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L			61 J		130 J
Benzene	UG/L			1.4 J		
Carbon Disulfide	UG/L		3.6 J	8.6	6.6	
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					1.4
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					12
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					0.50 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	10/13/03	12/10/03	03/10/04	10/14/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	0.36 J				
Toluene	UG/L			1.9 J		
Total Xylenes	UG/L					
Trichloroethene	UG/L	1.0				
Vinyl Chloride	UG/L	4.5				
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					NA
2-Chlorophenol	UG/L					NA
2-Methylphenol (o-cresol)	UG/L					NA
4-Methylphenol (p-cresol)	UG/L					NA
Acetophenone	UG/L					NA
bis(2-Ethylhexyl)phthalate	UG/L					NA
Caprolactam	UG/L			44 J	14	NA
Di-n-octylphthalate	UG/L					NA
Naphthalene	UG/L		2 J			NA
Phenol	UG/L		21	16	1 J	NA
Pyrene	UG/L					NA
Pesticides						
4,4-DDT	UG/L					NA
alpha-BHC	UG/L					NA
beta-BHC	UG/L					NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Sample ID		GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	10/13/03	12/10/03	03/10/04	10/14/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L					NA
gamma-BHC (Lindane)	UG/L					NA
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					NA
Metals						
Arsenic	UG/L			17.0		NA
Cadmium	UG/L					NA
Lead	UG/L					NA
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	39	16000	1900	26 J	NA
Total Coliform	C/100 ML	120	20			NA
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	POS	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015A-P3	GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P4
Sample ID		GW03-015A-P3	GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	03/09/04	10/03/03	12/08/03	03/04/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L					
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L		9.2			
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L	2.8	3.2			
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	0.83 J	0.60 J			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015A-P3	GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P4
Sample ID		GW03-015A-P3	GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	03/09/04	10/03/03	12/08/03	03/04/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					
Toluene	UG/L		2.6			
Total Xylenes	UG/L	1.6 J	2.3 J			
Trichloroethene	UG/L					
Vinyl Chloride	UG/L					
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L		7 J			
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L		NA			
alpha-BHC	UG/L		NA			
beta-BHC	UG/L		NA			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015A-P3	GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P4
Sample ID		GW03-015A-P3	GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/09/03	03/09/04	10/03/03	12/08/03	03/04/04
Parameter	Units					
Pesticides						
delta-BHC	UG/L		NA			
gamma-BHC (Lindane)	UG/L		NA			
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L	14.3				
Cadmium	UG/L		1.1			
Lead	UG/L	16.6				
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	11000	3500	540 J	170	2 J
Total Coliform	C/100 ML					
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015B-P5	GW03-015B-P5	GW03-015B-P5	GW03-015B-P6	GW03-015B-P6
Sample ID		GW03-015B-P5	GW03-015B-P5	GW03-015B-P5	GW03-015B-P6	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	12/10/03	03/08/04	10/06/03	12/09/03
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L		1.2	1.9 J		
1,1,2,2-Tetrachloroethane	UG/L		3.3	3.2 J		
1,1,2-Trichloroethane	UG/L		17	2.9 J		
1,1-Dichloroethane	UG/L		3.5	2.8 J		
1,1-Dichloroethene	UG/L		1.0			
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L		41 DJ	45		
1,2-Dichloroethene (cis)	UG/L		52 D	5.9		
1,2-Dichloroethene (trans)	UG/L		62 D	140		
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L		2.1	2.0 J		
Carbon Disulfide	UG/L		0.42 J	4.0		
Chlorobenzene	UG/L		0.40 J			
Chloroform	UG/L		32	2.6 J		
Cyclohexane	UG/L	0.96 J	1.1	1.8 J		
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L		0.30 J			
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	1.0	1.6	1.8 J		

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015B-P5	GW03-015B-P5	GW03-015B-P5	GW03-015B-P6	GW03-015B-P6
Sample ID		GW03-015B-P5	GW03-015B-P5	GW03-015B-P5	GW03-015B-P6	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	12/10/03	03/08/04	10/06/03	12/09/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L		190 D			
Styrene	UG/L					
Tetrachloroethene	UG/L				0.40 J	0.29 J
Toluene	UG/L			1.4 J		
Total Xylenes	UG/L					
Trichloroethene	UG/L	0.37 J	1.2	3.7 J	0.60 J	0.44 J
Vinyl Chloride	UG/L		720 D	30		
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015B-P5	GW03-015B-P5	GW03-015B-P5	GW03-015B-P6	GW03-015B-P6
Sample ID		GW03-015B-P5	GW03-015B-P5	GW03-015B-P5	GW03-015B-P6	GW03-015B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		10/06/03	12/10/03	03/08/04	10/06/03	12/09/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L			0.016 J		
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	110	4 J	21 J	380 J	150
Total Coliform	C/100 ML	70			220	
Fecal Coliform	C/100 ML	NA	NA	NA	NA	
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015B-P6	GW03-015C-P7	GW03-015C-P7	GW03-015C-P7	GW03-016A-P1
Sample ID		GW03-015B-P6	GW03-015C-P7	GW03-015C-P7	GW03-015C-P7	GW03-016A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	10/02/03	12/09/03	03/08/04	09/29/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L		1.2	0.74 J	1.4 J	5.8
1,2-Dichloroethene (trans)	UG/L				3.7 J	
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L		0.53 J		1.6 J	1.0
Carbon Disulfide	UG/L				1.4 J	
Chlorobenzene	UG/L		0.34 J	0.28 J		
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015B-P6	GW03-015C-P7	GW03-015C-P7	GW03-015C-P7	GW03-016A-P1
Sample ID		GW03-015B-P6	GW03-015C-P7	GW03-015C-P7	GW03-015C-P7	GW03-016A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	10/02/03	12/09/03	03/08/04	09/29/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L					5.4
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L	0.30 J	0.37 J			11
Vinyl Chloride	UG/L		2.3	1.9	90	0.61
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L				0.100 NJ	
alpha-BHC	UG/L					
beta-BHC	UG/L					0.066

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-015B-P6	GW03-015C-P7	GW03-015C-P7	GW03-015C-P7	GW03-016A-P1
Sample ID		GW03-015B-P6	GW03-015C-P7	GW03-015C-P7	GW03-015C-P7	GW03-016A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/09/04	10/02/03	12/09/03	03/08/04	09/29/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L			0.053 J		
gamma-BHC (Lindane)	UG/L	0.038 J				
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	120	140	26 J	27 J	3100
Total Coliform	C/100 ML	80	40	20		40
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016A-P1	GW03-016A-P1	GW03-016A-P2	GW03-016A-P2	GW03-016A-P2
Sample ID		GW03-016A-P1	GW03-016A-P1	GW03-016A-P2	GW03-016A-P2	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	03/04/04	09/30/03	12/16/03	03/05/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L			5.6	3.2	3.2
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	8.0	6.3	1.1	0.99 J	0.56 J
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L			3.4	2.6	2.0
1,4-Dichlorobenzene	UG/L			9.1	5.7	5.8
Acetone	UG/L					
Benzene	UG/L	5.0	5.7	0.91 J	0.44 J	
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L			17	7.9	9.7
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016A-P1	GW03-016A-P1	GW03-016A-P2	GW03-016A-P2	GW03-016A-P2
Sample ID		GW03-016A-P1	GW03-016A-P1	GW03-016A-P2	GW03-016A-P2	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	03/04/04	09/30/03	12/16/03	03/05/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	6.1	4.5			
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L	10	8.7		0.26 J	
Vinyl Chloride	UG/L	2.0	2.5			
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L	4 J				
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L	0.074	0.053		0.087 J	0.028 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016A-P1	GW03-016A-P1	GW03-016A-P2	GW03-016A-P2	GW03-016A-P2
Sample ID		GW03-016A-P1	GW03-016A-P1	GW03-016A-P2	GW03-016A-P2	GW03-016A-P2
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/12/03	03/04/04	09/30/03	12/16/03	03/05/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L				0.078	
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	1400	1300	240	47	440
Total Coliform	C/100 ML					20
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016A-P3	GW03-016A-P3	GW03-016A-P3	GW03-016B-P4	GW03-016B-P4
Sample ID		GW03-016A-P3	GW03-016A-P3	GW03-016A-P3	GW03-016B-P4	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	12/11/03	03/08/04	09/29/03	12/12/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L	0.90 J		1.0 J	0.53 J	0.27 J
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	10	12	9.0	20	18
1,2-Dichloroethene (trans)	UG/L	1.9	4.9	3.7 J	0.49 J	0.40 J
1,3-Dichlorobenzene	UG/L	0.29 J			1.4	0.69 J
1,4-Dichlorobenzene	UG/L	1.2	1.0 J	1.2 J	1.5	0.74 J
Acetone	UG/L					
Benzene	UG/L	43 D	79	92	21	20
Carbon Disulfide	UG/L	1.8	0.86 J			
Chlorobenzene	UG/L	4.7	4.9	4.8	2.8	1.5
Chloroform	UG/L					
Cyclohexane	UG/L	86 D	52	91		
Ethylbenzene	UG/L	3.3	8.1	13		
Isopropylbenzene (Cumene)	UG/L	0.23 J	0.98 J	1.8 J		
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L	28	14	36		

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016A-P3	GW03-016A-P3	GW03-016A-P3	GW03-016B-P4	GW03-016B-P4
Sample ID		GW03-016A-P3	GW03-016A-P3	GW03-016A-P3	GW03-016B-P4	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	12/11/03	03/08/04	09/29/03	12/12/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	1.1			2.8	1.3
Toluene	UG/L	48 D	85	130		
Total Xylenes	UG/L	30	79	120		
Trichloroethene	UG/L	5.9	1.2 J		5.6	2.2
Vinyl Chloride	UG/L	20	51	12	14	7.5
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L			1 J		
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L		6 J			4 J
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L			0.032 J		

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016A-P3	GW03-016A-P3	GW03-016A-P3	GW03-016B-P4	GW03-016B-P4
Sample ID		GW03-016A-P3	GW03-016A-P3	GW03-016A-P3	GW03-016B-P4	GW03-016B-P4
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/29/03	12/11/03	03/08/04	09/29/03	12/12/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L	11.3				
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	350	4100	88	4100	2200
Total Coliform	C/100 ML		460		100	40
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	POS	NEG	NA	POS

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016B-P4	GW03-016B-P5	GW03-016B-P5	GW03-016B-P5	GW03-016B-P6
Sample ID		GW03-016B-P4	GW03-016B-P5	GW03-016B-P5	GW03-016B-P5	GW03-016B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	09/30/03	12/17/03	03/05/04	09/30/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					0.46 J
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	11	7.8	8.0	6.6	2.3
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L	0.44 J				0.79 J
1,4-Dichlorobenzene	UG/L	0.46 J				1.3
Acetone	UG/L					
Benzene	UG/L	11	8.4	0.62 J	7.1	0.96 J
Carbon Disulfide	UG/L		0.34 J			
Chlorobenzene	UG/L	1.0	1.3	0.80 J	1.6	3.2
Chloroform	UG/L					
Cyclohexane	UG/L		0.26 J			
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L		0.31 J			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016B-P4	GW03-016B-P5	GW03-016B-P5	GW03-016B-P5	GW03-016B-P6
Sample ID		GW03-016B-P4	GW03-016B-P5	GW03-016B-P5	GW03-016B-P5	GW03-016B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	09/30/03	12/17/03	03/05/04	09/30/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	1.2	1.9	1.2	1.2	0.26 J
Toluene	UG/L		0.39 J			
Total Xylenes	UG/L					
Trichloroethene	UG/L	2.5	5.4	3.4	2.6	0.90 J
Vinyl Chloride	UG/L	4.1	3.3	2.8	2.6	2.8
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L	0.027 J			0.033 J	0.042 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016B-P4	GW03-016B-P5	GW03-016B-P5	GW03-016B-P5	GW03-016B-P6
Sample ID		GW03-016B-P4	GW03-016B-P5	GW03-016B-P5	GW03-016B-P5	GW03-016B-P6
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/04/04	09/30/03	12/17/03	03/05/04	09/30/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	290	8000	5200	650	1200
Total Coliform	C/100 ML	29				80
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	POS	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016B-P6	GW03-016B-P6	GW03-016C-P7	GW03-016C-P7	GW03-016C-P7
Sample ID		GW03-016B-P6	GW03-016B-P6	GW03-016C-P7	GW03-016C-P7	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	03/09/04	09/30/03	12/15/03	03/04/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L	0.22 J				
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	2.0	1.7	1.2	1.1	1.1
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L	0.44 J	0.34 J			
1,4-Dichlorobenzene	UG/L	0.81 J	0.93 J			
Acetone	UG/L					
Benzene	UG/L		0.53 J			
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L	1.0	1.3			
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016B-P6	GW03-016B-P6	GW03-016C-P7	GW03-016C-P7	GW03-016C-P7
Sample ID		GW03-016B-P6	GW03-016B-P6	GW03-016C-P7	GW03-016C-P7	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	03/09/04	09/30/03	12/15/03	03/04/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	0.35 J	0.34 J	1.1	0.51 J	0.48 J
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L	0.88 J	0.97 J	2.0	1.1	1.2
Vinyl Chloride	UG/L	1.4	1.1			
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L	0.038 J	0.024 J		0.027 J	0.023 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016B-P6	GW03-016B-P6	GW03-016C-P7	GW03-016C-P7	GW03-016C-P7
Sample ID		GW03-016B-P6	GW03-016B-P6	GW03-016C-P7	GW03-016C-P7	GW03-016C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/15/03	03/09/04	09/30/03	12/15/03	03/04/04
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L	1.2				
Lead	UG/L	9.8				
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	450	68	61	47 J	680
Total Coliform	C/100 ML	20	30	30	120 J	400
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	POS	NA	POS	POS

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016C-P8	GW03-016C-P8	GW03-016C-P8	GW03-017A-P1	GW03-017A-P1
Sample ID		GW03-016C-P8	GW03-016C-P8	GW03-016C-P8	GW03-017A-P1	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	12/17/03	03/04/04	10/02/03	12/17/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L				0.68 J	
1,1-Dichloroethene	UG/L				0.35 J	
1,2,4-Trichlorobenzene	UG/L	0.57 J				
1,2-Dichlorobenzene	UG/L	1.3	0.32 J			
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	7.7	3.5	1.8	130 D	100
1,2-Dichloroethene (trans)	UG/L				8.0	4.9 J
1,3-Dichlorobenzene	UG/L	4.2	1.3			
1,4-Dichlorobenzene	UG/L	3.3	1.3	0.48 J		
Acetone	UG/L					
Benzene	UG/L	4.4	0.50 J		3.0	2.0 J
Carbon Disulfide	UG/L				0.67 J	
Chlorobenzene	UG/L	5.8	1.2			
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016C-P8	GW03-016C-P8	GW03-016C-P8	GW03-017A-P1	GW03-017A-P1
Sample ID		GW03-016C-P8	GW03-016C-P8	GW03-016C-P8	GW03-017A-P1	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	12/17/03	03/04/04	10/02/03	12/17/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	2.7	1.4	0.99 J		
Toluene	UG/L				0.50 J	
Total Xylenes	UG/L					
Trichloroethene	UG/L	5.1	3.0	1.8	0.38 J	
Vinyl Chloride	UG/L	1.3			180 D	130
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L		7 J		6 J	8 J
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L		18		3 J	
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L	0.054	0.052	0.035 J		

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-016C-P8	GW03-016C-P8	GW03-016C-P8	GW03-017A-P1	GW03-017A-P1
Sample ID		GW03-016C-P8	GW03-016C-P8	GW03-016C-P8	GW03-017A-P1	GW03-017A-P1
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/30/03	12/17/03	03/04/04	10/02/03	12/17/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L				23.6	
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	55	99	66	500	6100
Total Coliform	C/100 ML			20		
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	NEG	NEG	NA	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017A-P1	GW03-017A-P2	GW03-017A-P2	GW03-017A-P2	GW03-017A-P3
Sample ID		GW03-017A-P1	GW03-017A-P2	GW03-017A-P2	GW03-017A-P2	GW03-017A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	09/24/03	12/12/03	03/01/04	12/18/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L		0.30 J			
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	92	92 D	270	160 D	
1,2-Dichloroethene (trans)	UG/L	6.4	3.2	10	13	
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L		24 J			
Benzene	UG/L	2.1 J	1.7	9.8 J	10	
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017A-P1	GW03-017A-P2	GW03-017A-P2	GW03-017A-P2	GW03-017A-P3
Sample ID		GW03-017A-P1	GW03-017A-P2	GW03-017A-P2	GW03-017A-P2	GW03-017A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	09/24/03	12/12/03	03/01/04	12/18/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L		1.4			
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L		35	4.7 J	3.4 J	
Vinyl Chloride	UG/L	130	24	170	340 D	
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					NA
2-Chlorophenol	UG/L					NA
2-Methylphenol (o-cresol)	UG/L					NA
4-Methylphenol (p-cresol)	UG/L					NA
Acetophenone	UG/L					NA
bis(2-Ethylhexyl)phthalate	UG/L					NA
Caprolactam	UG/L	9 J				NA
Di-n-octylphthalate	UG/L					NA
Naphthalene	UG/L					NA
Phenol	UG/L					NA
Pyrene	UG/L					NA
Pesticides						
4,4-DDT	UG/L					NA
alpha-BHC	UG/L					NA
beta-BHC	UG/L					NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017A-P1	GW03-017A-P2	GW03-017A-P2	GW03-017A-P2	GW03-017A-P3
Sample ID		GW03-017A-P1	GW03-017A-P2	GW03-017A-P2	GW03-017A-P2	GW03-017A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	09/24/03	12/12/03	03/01/04	12/18/03
Parameter	Units					
Pesticides						
delta-BHC	UG/L					NA
gamma-BHC (Lindane)	UG/L					NA
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					NA
Metals						
Arsenic	UG/L					NA
Cadmium	UG/L					NA
Lead	UG/L	498				NA
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	41000	310	73	9 J	NA
Total Coliform	C/100 ML					NA
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	NEG	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017B-P4	GW03-017B-P4	GW03-017B-P4	GW03-017B-P5	GW03-017B-P5
Sample ID		GW03-017B-P4	GW03-017B-P4	GW03-017B-P4	GW03-017B-P5	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	12/10/03	02/24/04	09/25/03	12/11/03
Parameter	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L	0.27 J	1.1	1.8 J		
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	30	74 D	160 D	4.1	6.6
1,2-Dichloroethene (trans)	UG/L	0.82 J	2.4	3.8 J		
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L		0.39 J			
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017B-P4	GW03-017B-P4	GW03-017B-P4	GW03-017B-P5	GW03-017B-P5
Sample ID		GW03-017B-P4	GW03-017B-P4	GW03-017B-P4	GW03-017B-P5	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	12/10/03	02/24/04	09/25/03	12/11/03
Parameter	**Units**					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	1.7	2.4	2.4 J	2.0	2.2
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L	39	85 D	180 D	6.2	4.9
Vinyl Chloride	UG/L		3.0	3.4 J		
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					4 J
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L	0.026 J			0.029 J	
beta-BHC	UG/L	0.031 J	0.038 J	0.043 J	0.079	0.077

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017B-P4	GW03-017B-P4	GW03-017B-P4	GW03-017B-P5	GW03-017B-P5
Sample ID		GW03-017B-P4	GW03-017B-P4	GW03-017B-P4	GW03-017B-P5	GW03-017B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		09/24/03	12/10/03	02/24/04	09/25/03	12/11/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	580	37	49	760	260
Total Coliform	C/100 ML	170		40	70	340
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NA	POS	NEG	NA	POS

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017B-P5	GW03-017B-P6	GW03-017B-P6	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017B-P5	GW03-017B-P6	GW03-017B-P6	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	09/25/03	12/11/03	02/26/04	09/24/03
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	5.8	3.0	6.2	3.1	2.1
1,2-Dichloroethene (trans)	UG/L					
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					0.42 J
Acetone	UG/L			4.2 J		
Benzene	UG/L					
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017B-P5	GW03-017B-P6	GW03-017B-P6	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017B-P5	GW03-017B-P6	GW03-017B-P6	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	09/25/03	12/11/03	02/26/04	09/24/03
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	0.79 J	1.4	1.4	0.59 J	0.60 J
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L	5.3	3.0	2.5	1.3	1.6
Vinyl Chloride	UG/L			1.8	0.66 J	
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L		0.034 J			
beta-BHC	UG/L	0.036 J	0.090	0.073	0.042 J	0.026 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017B-P5	GW03-017B-P6	GW03-017B-P6	GW03-017B-P6	GW03-017C-P7
Sample ID		GW03-017B-P5	GW03-017B-P6	GW03-017B-P6	GW03-017B-P6	GW03-017C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		02/24/04	09/25/03	12/11/03	02/26/04	09/24/03
Parameter	**Units**					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	78	350	290	9 J	1900
Total Coliform	C/100 ML		160	110	40	680
Fecal Coliform	C/100 ML	NA	NA	NA	NA	NA
E Coli	POS/NEG	NEG	NA	POS	NEG	NA

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017C-P7	GW03-017C-P7	GW03-017C-P8	GW03-017C-P8	GW03-017C-P8
Sample ID		GW03-017C-P7	GW03-017C-P7	GW03-017C-P8	GW03-017C-P8	GW03-017C-P8
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	02/24/04	09/24/03	12/15/03	02/24/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L			1.6		0.81 J
1,2,4-Trichlorobenzene	UG/L					
1,2-Dichlorobenzene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	2.7	0.68 J	160 D	130	91 D
1,2-Dichloroethene (trans)	UG/L			4.4		2.4
1,3-Dichlorobenzene	UG/L					
1,4-Dichlorobenzene	UG/L					
Acetone	UG/L					
Benzene	UG/L			0.34 J		
Carbon Disulfide	UG/L					
Chlorobenzene	UG/L					
Chloroform	UG/L					
Cyclohexane	UG/L					
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methyl tert-butyl ether	UG/L					
Methylcyclohexane	UG/L					

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017C-P7	GW03-017C-P7	GW03-017C-P8	GW03-017C-P8	GW03-017C-P8
Sample ID		GW03-017C-P7	GW03-017C-P7	GW03-017C-P8	GW03-017C-P8	GW03-017C-P8
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	02/24/04	09/24/03	12/15/03	02/24/04
Parameter	Units					
Volatile Organic Compounds						
Methylene Chloride	UG/L					
Styrene	UG/L					
Tetrachloroethene	UG/L	0.80 J	0.25 J	12	9.5 J	7.4
Toluene	UG/L					
Total Xylenes	UG/L					
Trichloroethene	UG/L	1.8	0.57 J	130 D	120	87 D
Vinyl Chloride	UG/L			16		1.6 J
Semivolatile Organic Compounds						
2,4-Dimethylphenol	UG/L					
2-Chlorophenol	UG/L					
2-Methylphenol (o-cresol)	UG/L					
4-Methylphenol (p-cresol)	UG/L					
Acetophenone	UG/L					
bis(2-Ethylhexyl)phthalate	UG/L					
Caprolactam	UG/L					
Di-n-octylphthalate	UG/L					
Naphthalene	UG/L					
Phenol	UG/L					
Pyrene	UG/L					
Pesticides						
4,4-DDT	UG/L					
alpha-BHC	UG/L					
beta-BHC	UG/L			0.029 J	0.062 J	0.034 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017C-P7	GW03-017C-P7	GW03-017C-P8	GW03-017C-P8	GW03-017C-P8
Sample ID		GW03-017C-P7	GW03-017C-P7	GW03-017C-P8	GW03-017C-P8	GW03-017C-P8
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		12/10/03	02/24/04	09/24/03	12/15/03	02/24/04
Parameter	Units					
Pesticides						
delta-BHC	UG/L					
gamma-BHC (Lindane)	UG/L					
Polychlorinated Biphenyls						
Aroclor 1242	UG/L					
Metals						
Arsenic	UG/L					
Cadmium	UG/L					
Lead	UG/L					
Miscellaneous Parameters						
Monomethyl Mercury	NG/L	NA	NA	NA	NA	NA
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	110	160	13000	540	60
Total Coliform	C/100 ML	20				
Fecal Coliform	C/100 ML		NA	NA	NA	NA
E Coli	POS/NEG	NEG	NEG	NA	NEG	NEG

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017C-P9	GW03-017C-P9	GW03-017C-P9
Sample ID		GW03-017C-P9	GW03-017C-P9	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		10/02/03	12/18/03	02/26/04
Parameter	Units			
Volatile Organic Compounds				
1,1,1-Trichloroethane	UG/L			
1,1,2,2-Tetrachloroethane	UG/L			
1,1,2-Trichloroethane	UG/L			
1,1-Dichloroethane	UG/L			
1,1-Dichloroethene	UG/L			
1,2,4-Trichlorobenzene	UG/L			
1,2-Dichlorobenzene	UG/L			
1,2-Dichloroethane	UG/L			
1,2-Dichloroethene (cis)	UG/L	1.0	0.34 J	
1,2-Dichloroethene (trans)	UG/L			
1,3-Dichlorobenzene	UG/L			
1,4-Dichlorobenzene	UG/L			
Acetone	UG/L		19 J	
Benzene	UG/L	0.88 J	0.99 J	
Carbon Disulfide	UG/L	1.6	1.8	0.97 J
Chlorobenzene	UG/L			
Chloroform	UG/L			
Cyclohexane	UG/L	0.79 J		
Ethylbenzene	UG/L			
Isopropylbenzene (Cumene)	UG/L			
Methyl Ethyl Ketone (2-Butanone)	UG/L			
Methyl tert-butyl ether	UG/L			
Methylcyclohexane	UG/L	0.32 J		0.47 J

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017C-P9	GW03-017C-P9	GW03-017C-P9
Sample ID		GW03-017C-P9	GW03-017C-P9	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		10/02/03	12/18/03	02/26/04
Parameter	**Units**			
Volatile Organic Compounds				
Methylene Chloride	UG/L			
Styrene	UG/L			
Tetrachloroethene	UG/L	0.26 J		
Toluene	UG/L	1.7	0.78 J	0.40 J
Total Xylenes	UG/L	1.6 J		
Trichloroethene	UG/L	1.1		
Vinyl Chloride	UG/L			
Semivolatile Organic Compounds				
2,4-Dimethylphenol	UG/L		2 J	
2-Chlorophenol	UG/L			
2-Methylphenol (o-cresol)	UG/L		4 J	
4-Methylphenol (p-cresol)	UG/L		7 J	
Acetophenone	UG/L			
bis(2-Ethylhexyl)phthalate	UG/L			
Caprolactam	UG/L		12	10
Di-n-octylphthalate	UG/L			
Naphthalene	UG/L			
Phenol	UG/L	13	30	2 J
Pyrene	UG/L			
Pesticides				
4,4-DDT	UG/L			
alpha-BHC	UG/L			
beta-BHC	UG/L			

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TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
SEPTEMBER/OCTOBER 2003, DECEMBER 2003 AND FEBRUARY/MARCH 2004 SAMPLING EVENTS

Location ID		GW03-017C-P9	GW03-017C-P9	GW03-017C-P9
Sample ID		GW03-017C-P9	GW03-017C-P9	GW03-017C-P9
Matrix		Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-
Date Sampled		10/02/03	12/18/03	02/26/04
Parameter	**Units**			
Pesticides				
delta-BHC	UG/L			
gamma-BHC (Lindane)	UG/L			
Polychlorinated Biphenyls				
Aroclor 1242	UG/L			
Metals				
Arsenic	UG/L			
Cadmium	UG/L			1.5
Lead	UG/L			19.5
Miscellaneous Parameters				
Monomethyl Mercury	NG/L	NA	NA	NA
Bacterial and Microbial Parameters				
Heterotrophic Plate Count	CFU/ML	870	4,400 J	4700
Total Coliform	C/100 ML			200
Fecal Coliform	C/100 ML	NA	NA	NA
E Coli	POS/NEG	NA	NEG	POS

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DEFINITIONS OF USEPA REGION II DATA QUALIFIERS AND SAMPLE CONCENTRATION UNITS

U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a tentative identification.
NJ	The analysis indicates the presence of an analyte that has been tentatively identified and the associated numerical value represents its approximate concentration.
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
B	The analyte was detected in the sample at a concentration greater than the instrument detection limit, but less than the quantitation limit.
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
PG/L	Picograms per liter.
NG/L	Nanograms per liter.
UG/L	Micrograms per liter.
MG/L	Milligrams per liter.
CFU/ML	Colony forming units per milliliter.
C/100 ML	Colonies per 100 milliliters.

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TABLE 4
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015A-P1	GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Sample ID		GW03-015A-P1	GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	04/12/04	03/10/04	04/13/04	03/09/04
Parameter	Units					
Metals						
Calcium	UG/L	115,000	73,900	4,920,000	5,310,000	7,820,000 J
Magnesium	UG/L	18,500	13,700	1,520,000	1,660,000	2,700,000 J
Potassium	UG/L	2,350	2,030	246,000	256,000 J	228,000 J
Sodium	UG/L	27,700	23,400	13,300,000	14,200,000	21,800,000 J
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	133	114	282	257	90.2
Chloride	MG/L	46.6	51.4	83,900 J	79,000	154,000 J
Hardness	MG/L	342	252	18,200	19,600	28,000
Sulfate (as SO4)	MG/L	138	130	2,410 J	2,810	2,420 J
Total Dissolved Solids	MG/L	681	366	48,700	58,900	78,100
Total Organic Carbon (TOC)	MG/L	1.3	1.4			
Total Suspended Solids	MG/L			35.0	54.0	218

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOCID] like 'GW03-015*-P*' AND [tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [tblRES].[PARNAME] = 'Calcium' OR [tblRES].[PARNAME] = 'Chloride' OR [tblRES].[PARNAME] = 'Hardness' OR [tblRES].[PARNAME] = 'Magnesium' OR [tblRES].[PARNAME] = 'Potassium' OR

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TABLE 4
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P5	GW03-015B-P5
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P5	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/13/04	03/04/04	04/13/04	03/08/04	04/13/04
Parameter	Units					
Metals						
Calcium	UG/L	NA	242,000	240,000	476,000	162,000
Magnesium	UG/L	NA	57,800	59,400	68,400	26,300
Potassium	UG/L	NA	3,550	3,200	12,700	6,060
Sodium	UG/L	NA	113,000 J	92,300	192,000 J	81,100
Miscellaneous Parameters						
Alkalinity, Total (as CaCO3)	MG/L	NA	315	302	306	148
Chloride	MG/L	NA	235	257	505	216
Hardness	MG/L	NA	938	830	1,300	492
Sulfate (as SO4)	MG/L	NA	643	625	897	399
Total Dissolved Solids	MG/L	NA	1,350	1,300	2,220	886
Total Organic Carbon (TOC)	MG/L		2.9	2.2	4.0	2.0
Total Suspended Solids	MG/L	NA				

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOCID] like 'GW03-015*-P*' AND [tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [tblRES].[PARNAME] = 'Calcium' OR [tblRES].[PARNAME] = 'Chloride' OR [tblRES].[PARNAME] = 'Hardness' OR [tblRES].[PARNAME] = 'Magnesium' OR [tblRES].[PARNAME] = 'Potassium' OR

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TABLE 4
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
MAJOR IONS AND GENERAL WATER QUALITY PARAMETERS
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015B-P6	GW03-015B-P6	GW03-015C-P7	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015B-P6	GW03-015C-P7	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	04/12/04	03/08/04	04/13/04
Parameter	Units				
Metals					
Calcium	UG/L	73,200	57,000	114,000	118,000
Magnesium	UG/L	13,300	11,600	41,400	29,700
Potassium	UG/L	2,610	2,310	3,190	3,410
Sodium	UG/L	50,000	27,100	31,400	37,900
Miscellaneous Parameters					
Alkalinity, Total (as CaCO3)	MG/L	98.8	101	192	171
Chloride	MG/L	115 J	51.8	45.3	76.0
Hardness	MG/L	214	188	446	404
Sulfate (as SO4)	MG/L	107 J	81.7	277	232
Total Dissolved Solids	MG/L	398	328	621	588
Total Organic Carbon (TOC)	MG/L	1.1	1.0	3.1	2.8
Total Suspended Solids	MG/L				

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

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[tblRES].[LOCID] like 'GW03-015*-P*' AND [tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Alkalinity, Total (as CaCO3)' OR [tblRES].[PARNAME] = 'Calcium' OR [tblRES].[PARNAME] = 'Chloride' OR [tblRES].[PARNAME] = 'Hardness' OR [tblRES].[PARNAME] = 'Magnesium' OR [tblRES].[PARNAME] = 'Potassium' OR

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TABLE 5
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015A-P1	GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Sample ID		GW03-015A-P1	GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	04/12/04	03/10/04	04/13/04	03/09/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L					
1,1,2,2-Tetrachloroethane	UG/L					
1,1,2-Trichloroethane	UG/L					
1,1-Dichloroethane	UG/L					
1,1-Dichloroethene	UG/L					
1,2-Dichloroethane	UG/L					
1,2-Dichloroethene (cis)	UG/L	0.96 J	3.2			
1,2-Dichloroethene (trans)	UG/L		6.7			
Benzene	UG/L		0.76 J		0.40 J	9.2
Carbon Disulfide	UG/L			6.6	2.8 J	
Chlorobenzene	UG/L		0.21 J			
Chloroform	UG/L		0.44 J			
Cyclohexane	UG/L				1.0 J	3.2
Ethylbenzene	UG/L				0.35 J	
Isopropylbenzene (Cumene)	UG/L					
Methyl Ethyl Ketone (2-Butanone)	UG/L					
Methylcyclohexane	UG/L					0.60 J
Methylene Chloride	UG/L					
Tetrachloroethene	UG/L	0.36 J	0.30 J			
Toluene	UG/L				0.39 J	2.6
Total Xylenes	UG/L					2.3 J
Trichloroethene	UG/L	1.0	1.2			
Vinyl Chloride	UG/L	4.5	130 D			

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Advanced Selection: WATERQUAL4

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[tblRES].[LOCID] LIKE 'GW03-015*' AND ((([tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Arsenic' OR [tblRES].[PARNAME] = 'Cadmium' OR [tblRES].[PARNAME] = 'Lead' OR [tblRES].[PARNAME] = 'Monomethyl Mercury' OR [tblRES].[PARNAME] = 'Total Coliform' OR [tblRES].[PARNAME] =

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TABLE 5
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015A-P1	GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Sample ID		GW03-015A-P1	GW03-015A-P1	GW03-015A-P2	GW03-015A-P2	GW03-015A-P3
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		03/05/04	04/12/04	03/10/04	04/13/04	03/09/04
Parameter	**Units**					
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/L				2 J	
4-Chloroaniline	UG/L					
Caprolactam	UG/L			14		
Naphthalene	UG/L				3 J	
Phenol	UG/L			1 J		7 J
Pesticides						
4,4-DDT	UG/L					NA
delta-BHC	UG/L					NA
gamma-BHC (Lindane)	UG/L					NA
Metals						
Cadmium	UG/L					1.1
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	39	1200	26 J	82	3500
Total Coliform	C/100 ML	120	500			

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Advanced Selection: WATERQUAL4

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[tblRES].[LOCID] LIKE 'GW03-015*' AND ((([tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Arsenic' OR [tblRES].[PARNAME] = 'Cadmium' OR [tblRES].[PARNAME] = 'Lead' OR [tblRES].[PARNAME] = 'Monomethyl Mercury' OR [tblRES].[PARNAME] = 'Total Coliform' OR [tblRES].[PARNAME] =

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TABLE 5
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P5	GW03-015B-P5
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P5	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/13/04	03/04/04	04/13/04	03/08/04	04/13/04
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	UG/L				1.9 J	1.5
1,1,2,2-Tetrachloroethane	UG/L				3.2 J	32
1,1,2-Trichloroethane	UG/L				2.9 J	41 D
1,1-Dichloroethane	UG/L				2.8 J	1.6
1,1-Dichloroethene	UG/L					3.3
1,2-Dichloroethane	UG/L				45	26
1,2-Dichloroethene (cis)	UG/L				5.9	78 D
1,2-Dichloroethene (trans)	UG/L				140	67 D
Benzene	UG/L				2.0 J	1.3
Carbon Disulfide	UG/L	0.55 J			4.0	3.2
Chlorobenzene	UG/L					0.33 J
Chloroform	UG/L				2.6 J	28
Cyclohexane	UG/L	2.8			1.8 J	1.9
Ethylbenzene	UG/L					
Isopropylbenzene (Cumene)	UG/L					0.22 J
Methyl Ethyl Ketone (2-Butanone)	UG/L	11				
Methylcyclohexane	UG/L	0.67 J			1.8 J	2.0
Methylene Chloride	UG/L					6.4
Tetrachloroethene	UG/L			0.45 J		0.84 J
Toluene	UG/L				1.4 J	0.87 J
Total Xylenes	UG/L	2.7 J				
Trichloroethene	UG/L				3.7 J	8.5
Vinyl Chloride	UG/L				30	520 D

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Advanced Selection: WATERQUAL4

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[tblRES].[LOCID] LIKE 'GW03-015*' AND ((([tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Arsenic' OR [tblRES].[PARNAME] = 'Cadmium' OR [tblRES].[PARNAME] = 'Lead' OR [tblRES].[PARNAME] = 'Monomethyl Mercury' OR [tblRES].[PARNAME] = 'Total Coliform' OR [tblRES].[PARNAME] =

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TABLE 5
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P5	GW03-015B-P5
Sample ID		GW03-015A-P3	GW03-015B-P4	GW03-015B-P4	GW03-015B-P5	GW03-015B-P5
Matrix		Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-	-
Date Sampled		04/13/04	03/04/04	04/13/04	03/08/04	04/13/04
Parameter	**Units**					
Semivolatile Organic Compounds						
2-Methylnaphthalene	UG/L	NA				
4-Chloroaniline	UG/L	NA				
Caprolactam	UG/L	NA				
Naphthalene	UG/L	NA				
Phenol	UG/L	NA				
Pesticides						
4,4-DDT	UG/L	NA				
delta-BHC	UG/L	NA			0.016 J	
gamma-BHC (Lindane)	UG/L	NA				0.020 J
Metals						
Cadmium	UG/L	NA				
Bacterial and Microbial Parameters						
Heterotrophic Plate Count	CFU/ML	NA	2 J	2400	21 J	920
Total Coliform	C/100 ML	NA		300		20

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Advanced Selection: WATERQUAL4

Printed: 6/11/2004 9:29:14 AM

[tblRES].[LOCID] LIKE 'GW03-015*' AND ((([tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Arsenic' OR [tblRES].[PARNAME] = 'Cadmium' OR [tblRES].[PARNAME] = 'Lead' OR [tblRES].[PARNAME] = 'Monomethyl Mercury' OR [tblRES].[PARNAME] = 'Total Coliform' OR [tblRES].[PARNAME] =

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TABLE 5
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015B-P6	GW03-015B-P6	GW03-015C-P7	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015B-P6	GW03-015C-P7	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	04/12/04	03/08/04	04/13/04
Parameter	Units				
Volatile Organic Compounds					
1,1,1-Trichloroethane	UG/L				
1,1,2,2-Tetrachloroethane	UG/L				
1,1,2-Trichloroethane	UG/L				
1,1-Dichloroethane	UG/L				
1,1-Dichloroethene	UG/L				
1,2-Dichloroethane	UG/L				
1,2-Dichloroethene (cis)	UG/L		0.35 J	1.4 J	14
1,2-Dichloroethene (trans)	UG/L		0.49 J	3.7 J	20
Benzene	UG/L			1.6 J	3.1 J
Carbon Disulfide	UG/L			1.4 J	10
Chlorobenzene	UG/L				
Chloroform	UG/L				
Cyclohexane	UG/L				
Ethylbenzene	UG/L				
Isopropylbenzene (Cumene)	UG/L				
Methyl Ethyl Ketone (2-Butanone)	UG/L				
Methylcyclohexane	UG/L				
Methylene Chloride	UG/L				
Tetrachloroethene	UG/L				
Toluene	UG/L				
Total Xylenes	UG/L				
Trichloroethene	UG/L	0.30 J	0.50 J		1.6 J
Vinyl Chloride	UG/L			90	580 D

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Advanced Selection: WATERQUAL4

Printed: 6/11/2004 9:29:16 AM

[tblRES].[LOCID] LIKE 'GW03-015*' AND ((([tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Arsenic' OR [tblRES].[PARNAME] = 'Cadmium' OR [tblRES].[PARNAME] = 'Lead' OR [tblRES].[PARNAME] = 'Monomethyl Mercury' OR [tblRES].[PARNAME] = 'Total Coliform' OR [tblRES].[PARNAME] =

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TABLE 5
GW03-015 LOCATION GROUNDWATER SAMPLE ANALYTICAL RESULTS
DETECTED TARGET ANALYTES
MARCH AND APRIL 2004 SAMPLING EVENTS

Location ID		GW03-015B-P6	GW03-015B-P6	GW03-015C-P7	GW03-015C-P7
Sample ID		GW03-015B-P6	GW03-015B-P6	GW03-015C-P7	GW03-015C-P7
Matrix		Groundwater	Groundwater	Groundwater	Groundwater
Depth Interval (ft)		-	-	-	-
Date Sampled		03/09/04	04/12/04	03/08/04	04/13/04
Parameter	Units				
Semivolatile Organic Compounds					
2-Methylnaphthalene	UG/L				
4-Chloroaniline	UG/L				1 J
Caprolactam	UG/L				
Naphthalene	UG/L				
Phenol	UG/L				
Pesticides					
4,4-DDT	UG/L			0.100 NJ	
delta-BHC	UG/L				
gamma-BHC (Lindane)	UG/L	0.038 J			
Metals					
Cadmium	UG/L				
Bacterial and Microbial Parameters					
Heterotrophic Plate Count	CFU/ML	120	350	27 J	18 J
Total Coliform	C/100 ML	80			20

Flags assigned during chemistry validation are shown.

Only Detected Results Reported.

Advanced Selection: WATERQUAL4

Printed: 6/11/2004 9:29:19 AM

[tblRES].[LOCID] LIKE 'GW03-015*' AND ((([tblRES].[LOGDATE] BETWEEN #02/01/04# AND #04/30/04# AND [tblRES].[MATRIX] = 'WG' AND [tblRES].[SACODE] = 'N' AND ([tblRES].[PARNAME] = 'Arsenic' OR [tblRES].[PARNAME] = 'Cadmium' OR [tblRES].[PARNAME] = 'Lead' OR [tblRES].[PARNAME] = 'Monomethyl Mercury' OR [tblRES].[PARNAME] = 'Total Coliform' OR [tblRES].[PARNAME] =

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APPENDIX N

WELL GW03-015 GROUNDWATER LEVEL AND WATER QUALITY PARAMETER DATA

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FIGURE N1-1

GW03-015A-P1, GROUNDWATER ELEVATIONS AND CHLORIDE CONCENTRATIONS

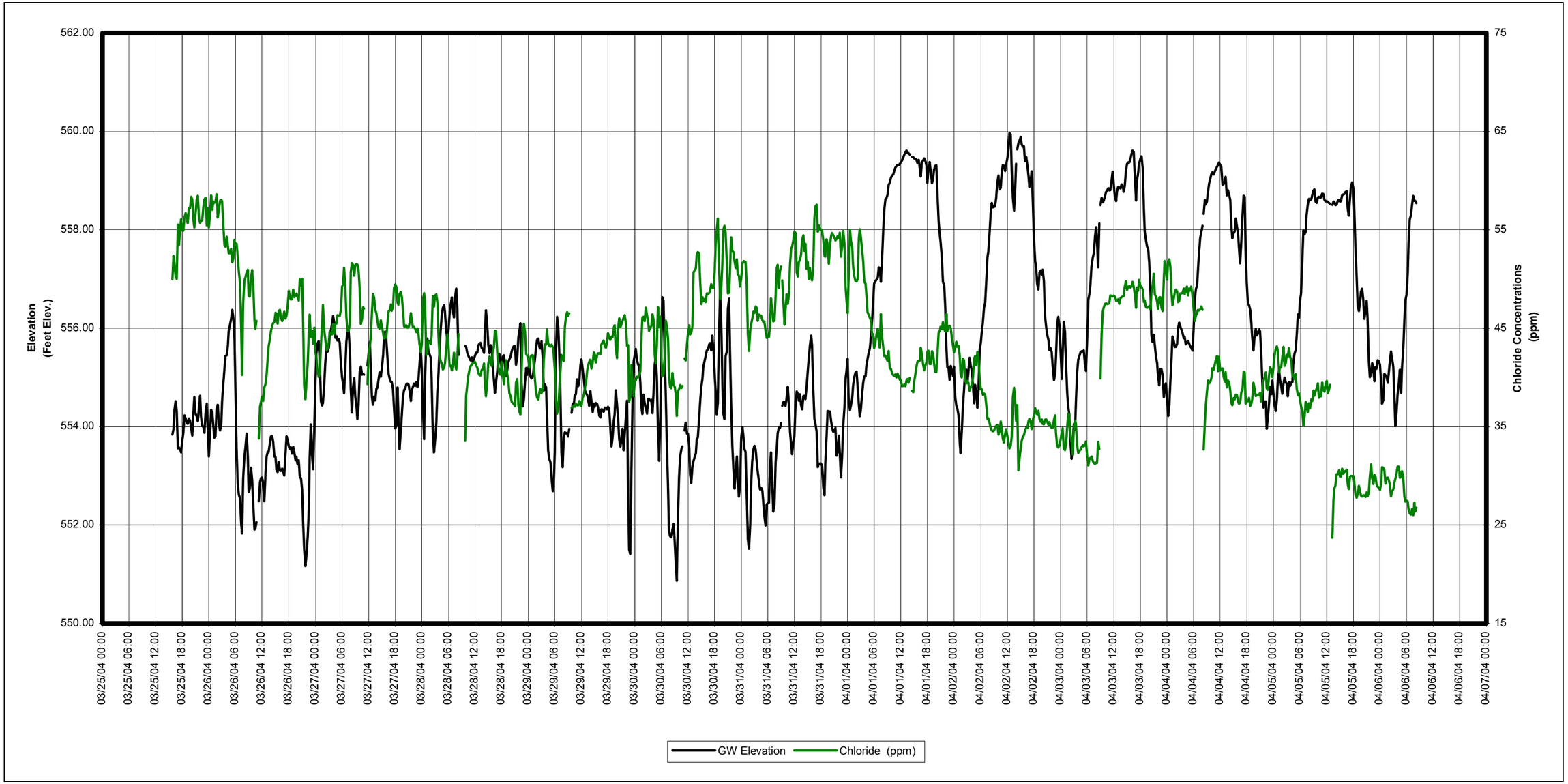

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FIGURE N1-2

GW03-015A-P1, GROUNDWATER ELEVATIONS AND CONDUCTIVITY

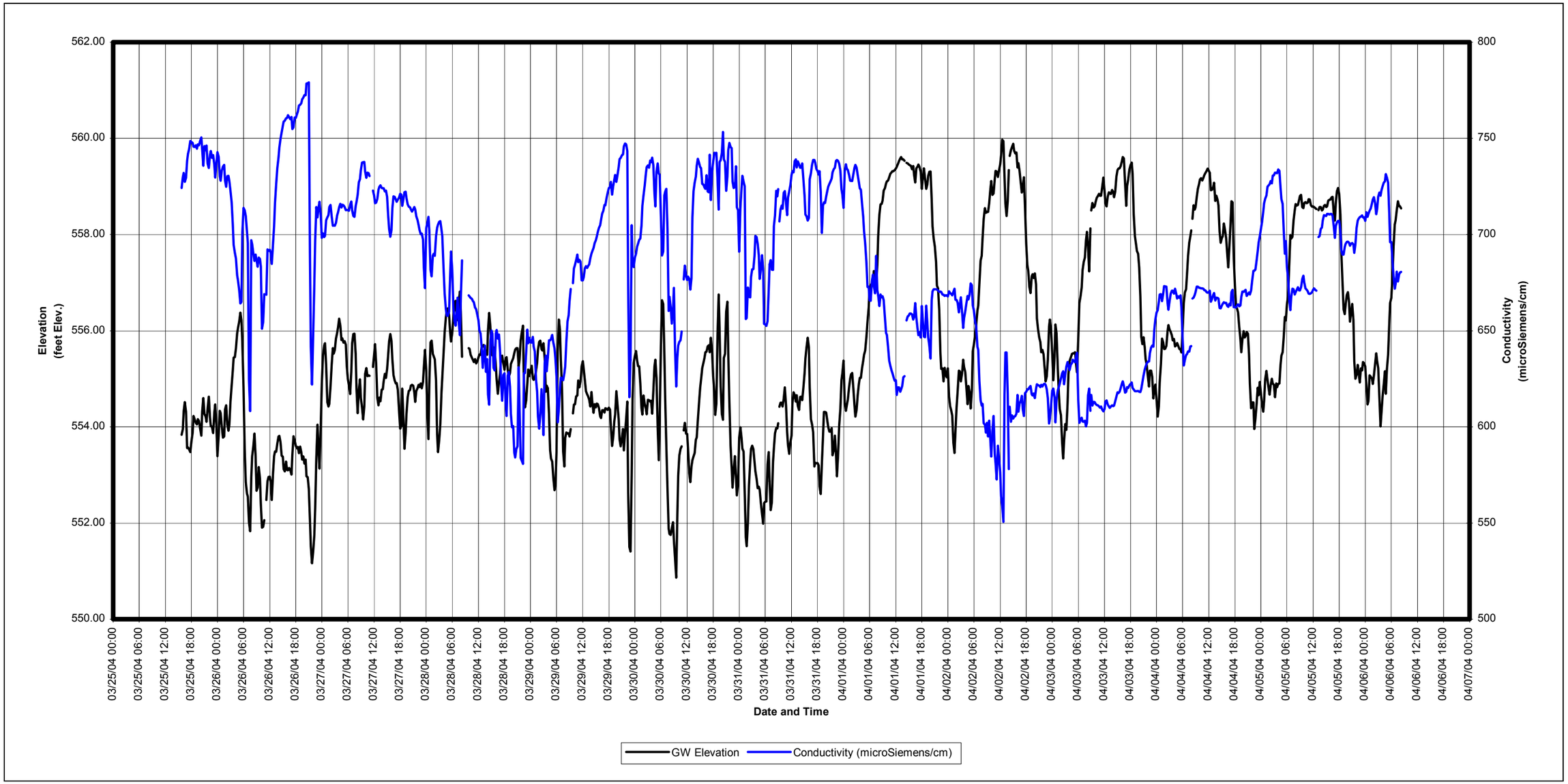

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FIGURE N1-3

GW03-015A-P1, GROUNDWATER ELEVATIONS AND pH

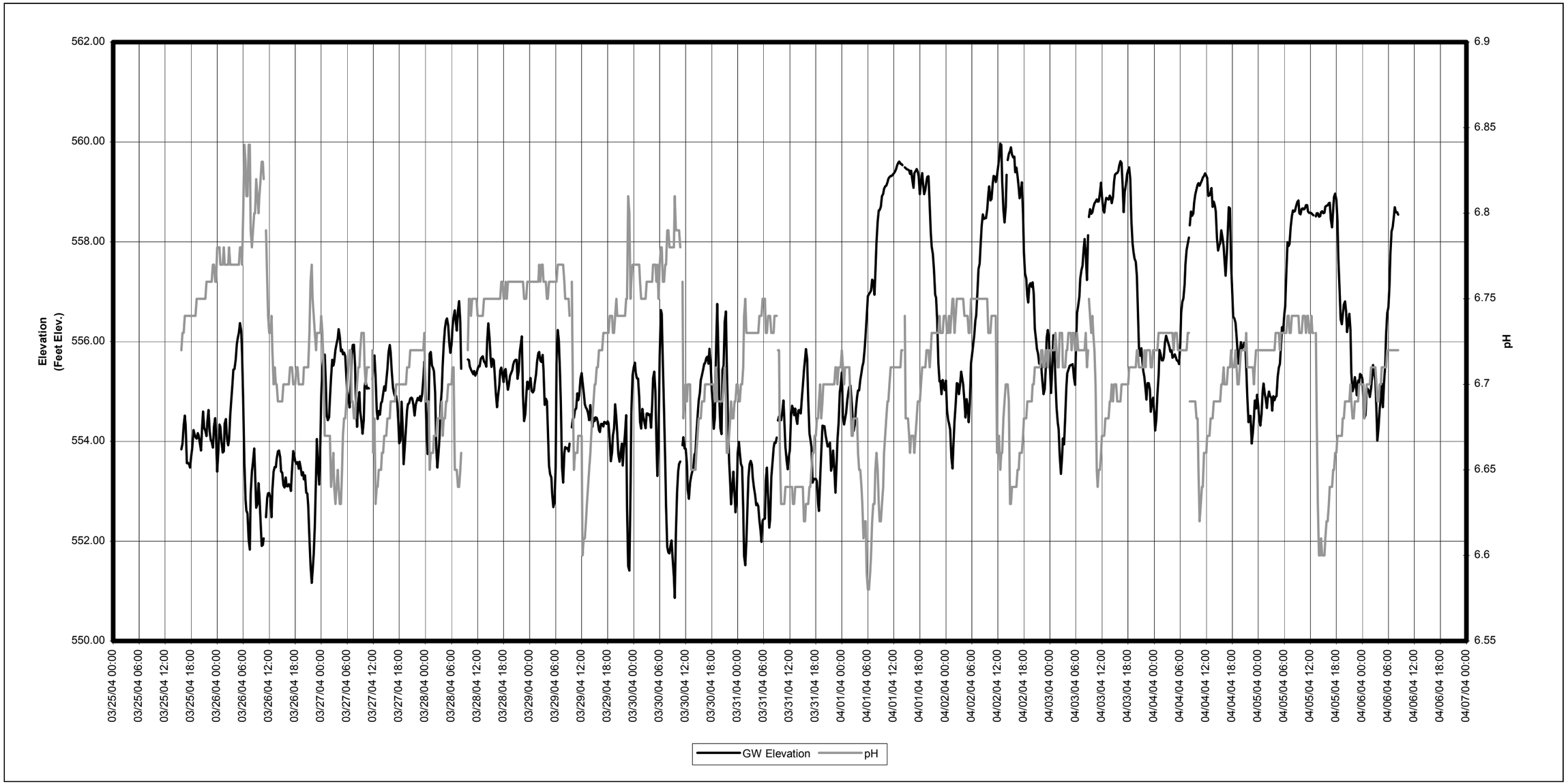

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FIGURE N1-4

GW03-015A-P1, GROUNDWATER ELEVATIONS AND OXIDATION-REDUCTION POTENTIAL

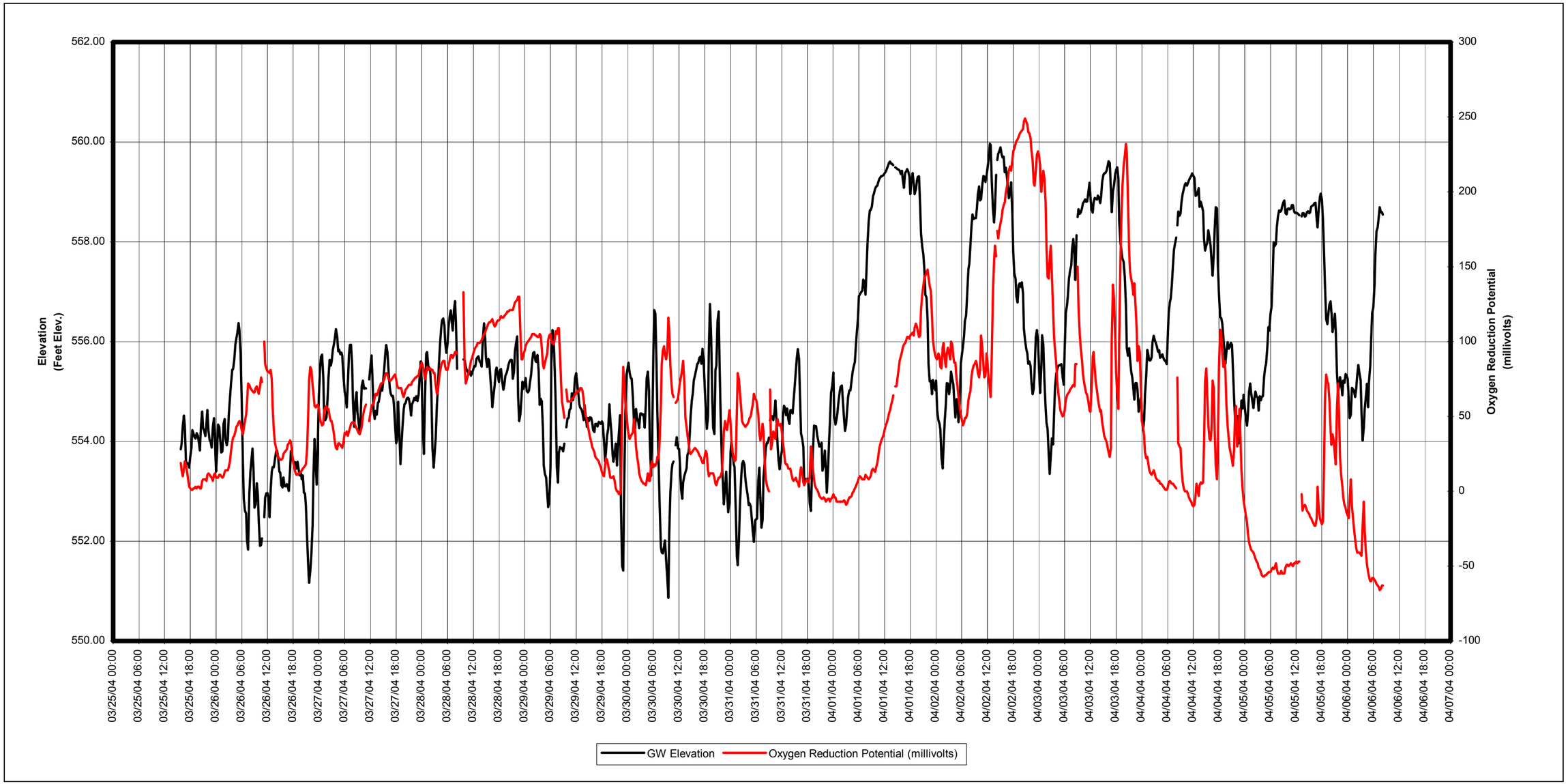

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FIGURE N1-5

GW03-015A-P1, GROUNDWATER ELEVATIONS AND DISSOLVED OXYGEN

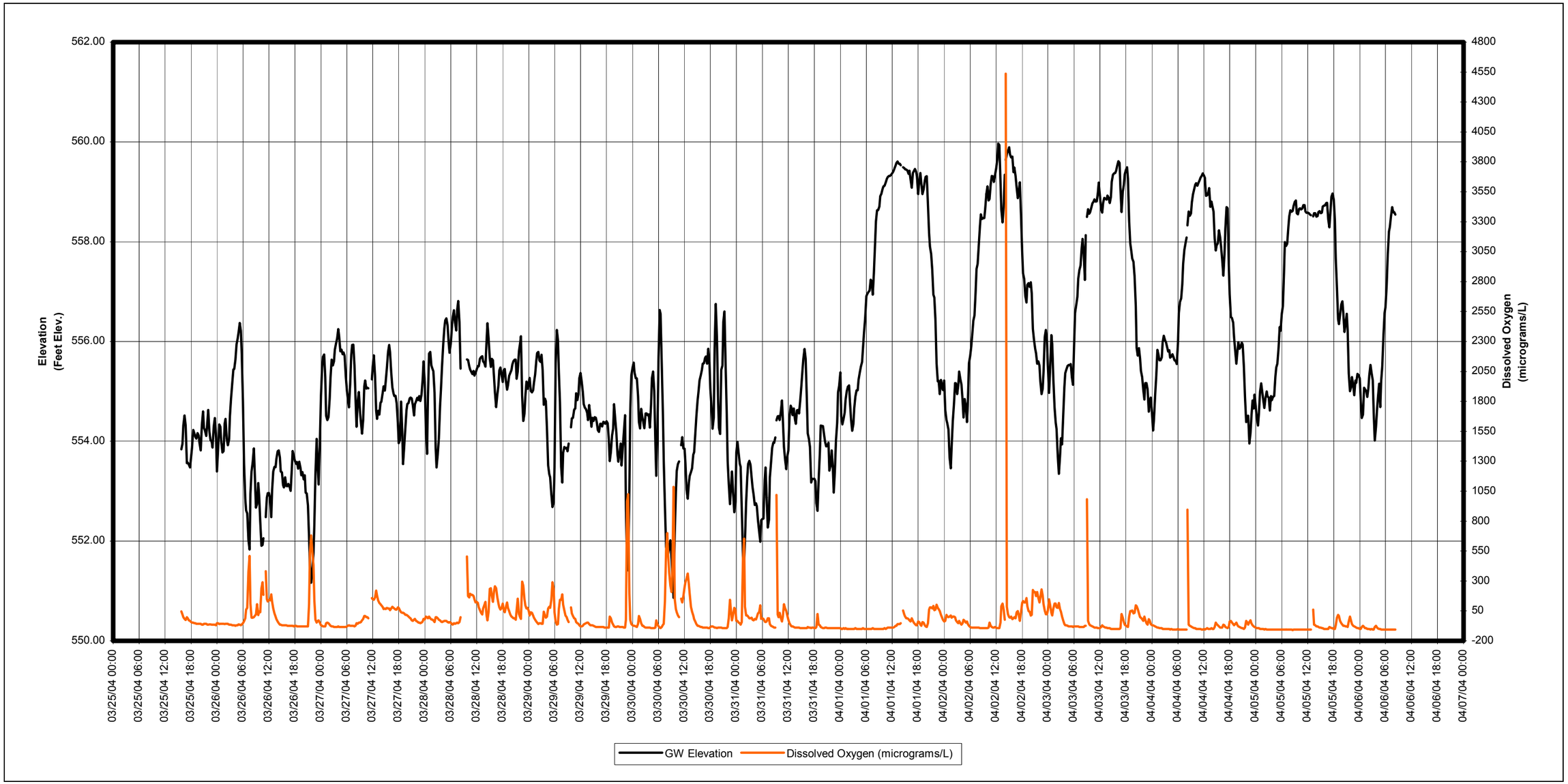

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FIGURE N1-6

GW03-015A-P1, GROUNDWATER ELEVATIONS AND BAROMETRIC PRESSURE

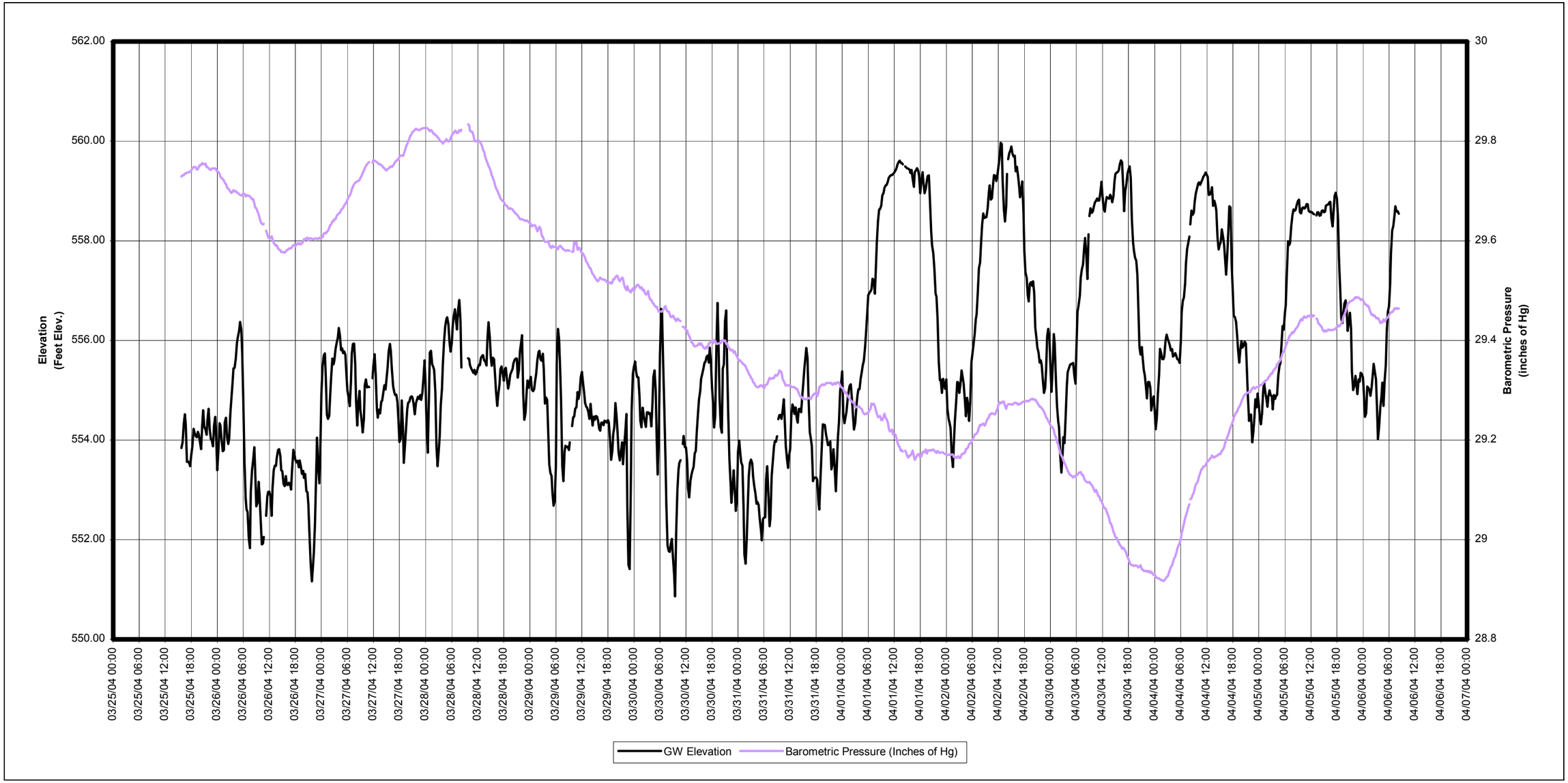

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FIGURE N1-7

GW03-015A-P1, GROUNDWATER ELEVATIONS AND TEMPERATURE

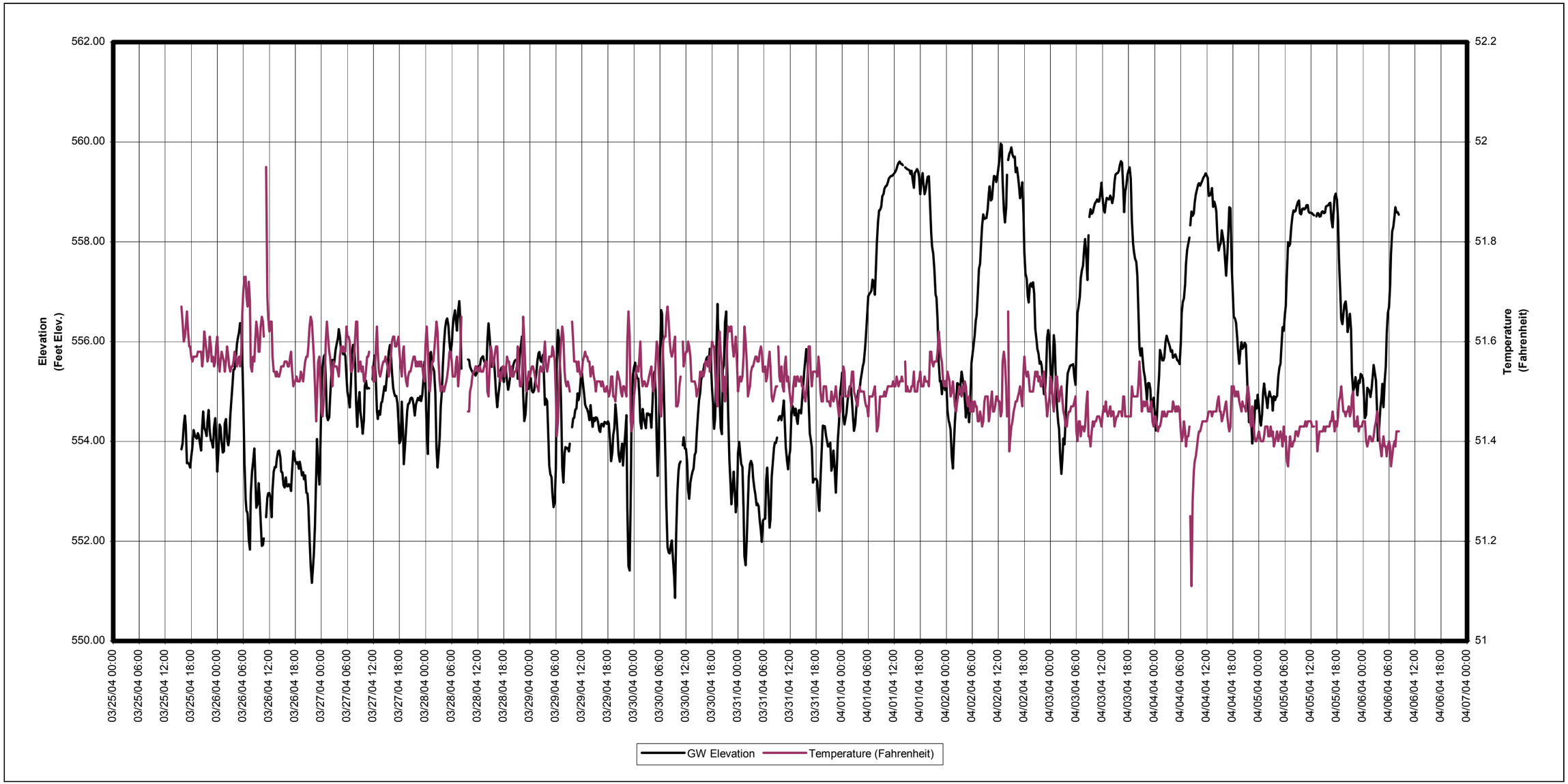

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FIGURE N2-1

GW03-015A-P2, GROUNDWATER ELEVATIONS AND CHLORIDE CONCENTRATIONS

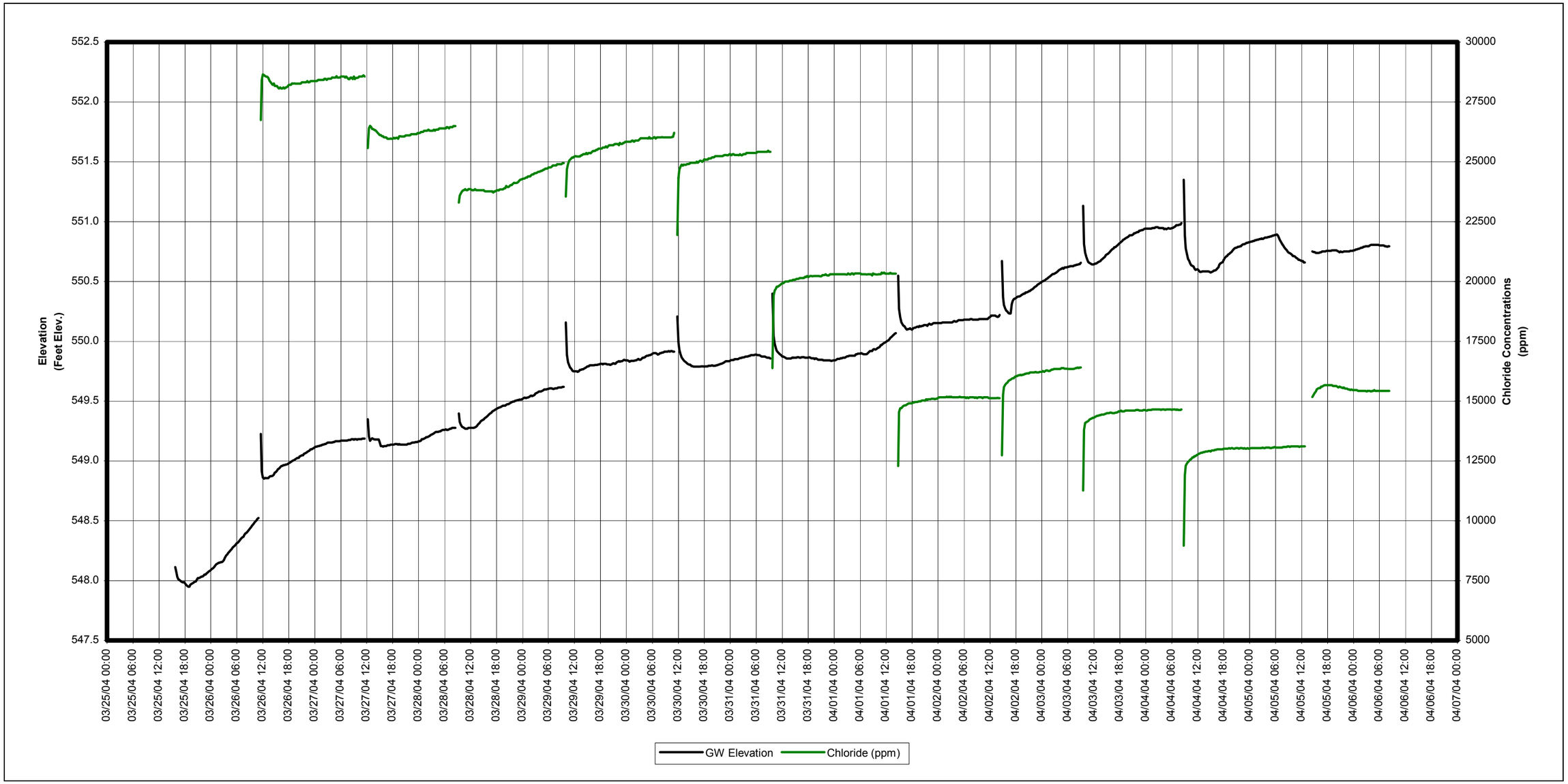

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FIGURE N2-2

GW03-015A-P2, GROUNDWATER ELEVATIONS AND CONDUCTIVITY

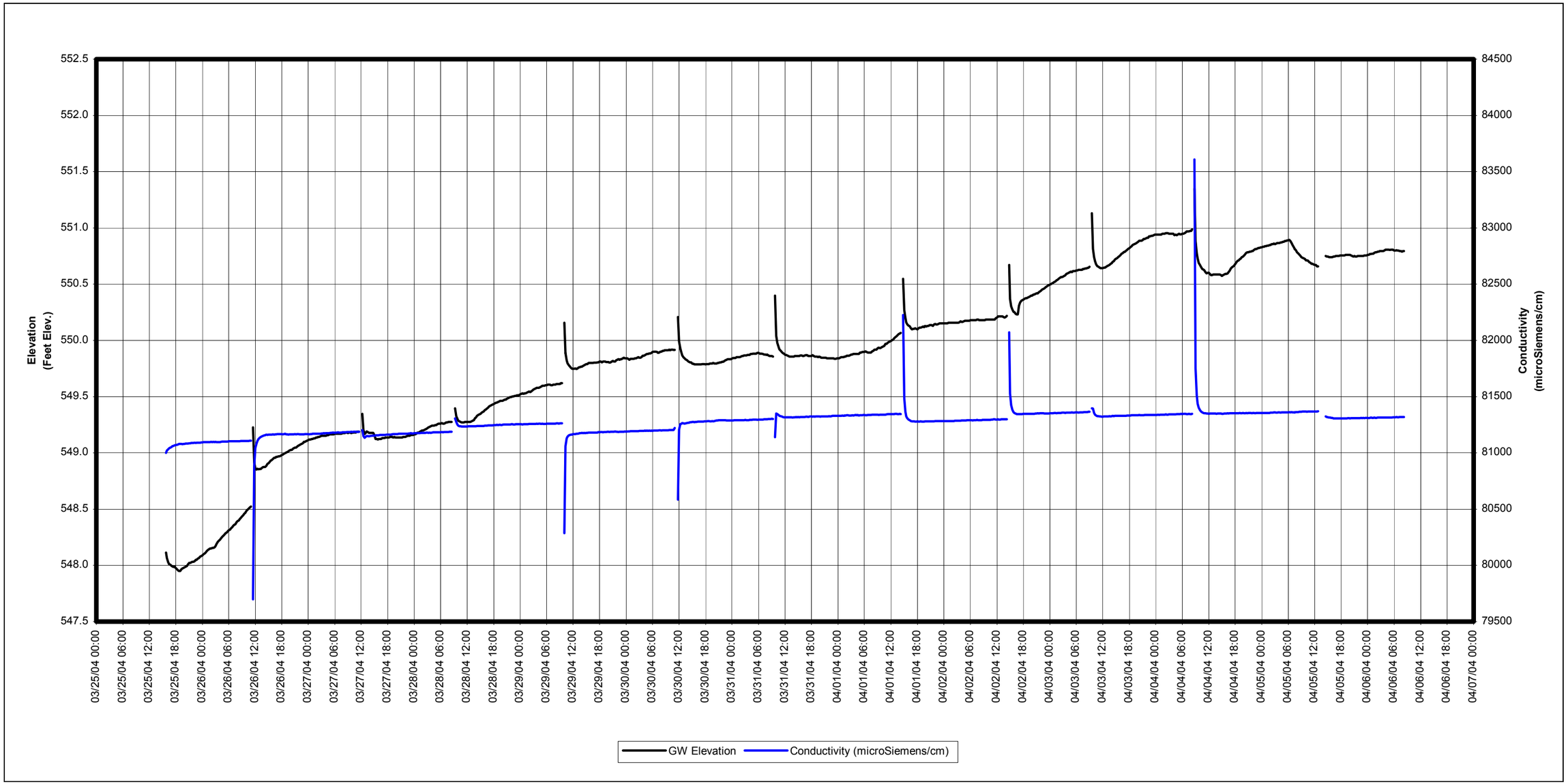

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FIGURE N2-3

GW03-015A-P2, GROUNDWATER ELEVATIONS AND pH

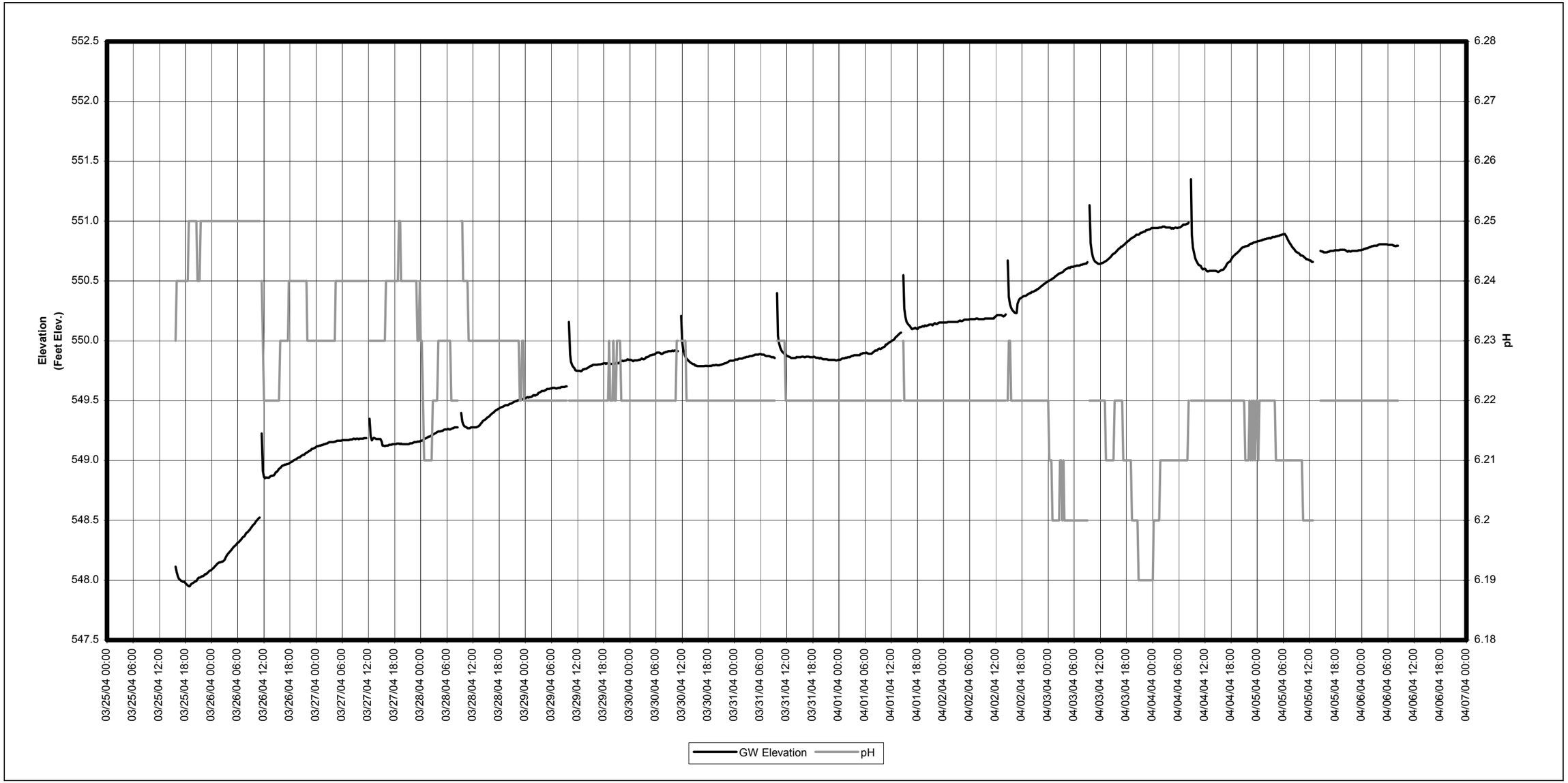

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FIGURE N2-4

GW03-015A-P2, GROUNDWATER ELEVATIONS AND OXIDATION-REDUCTION POTENTIAL

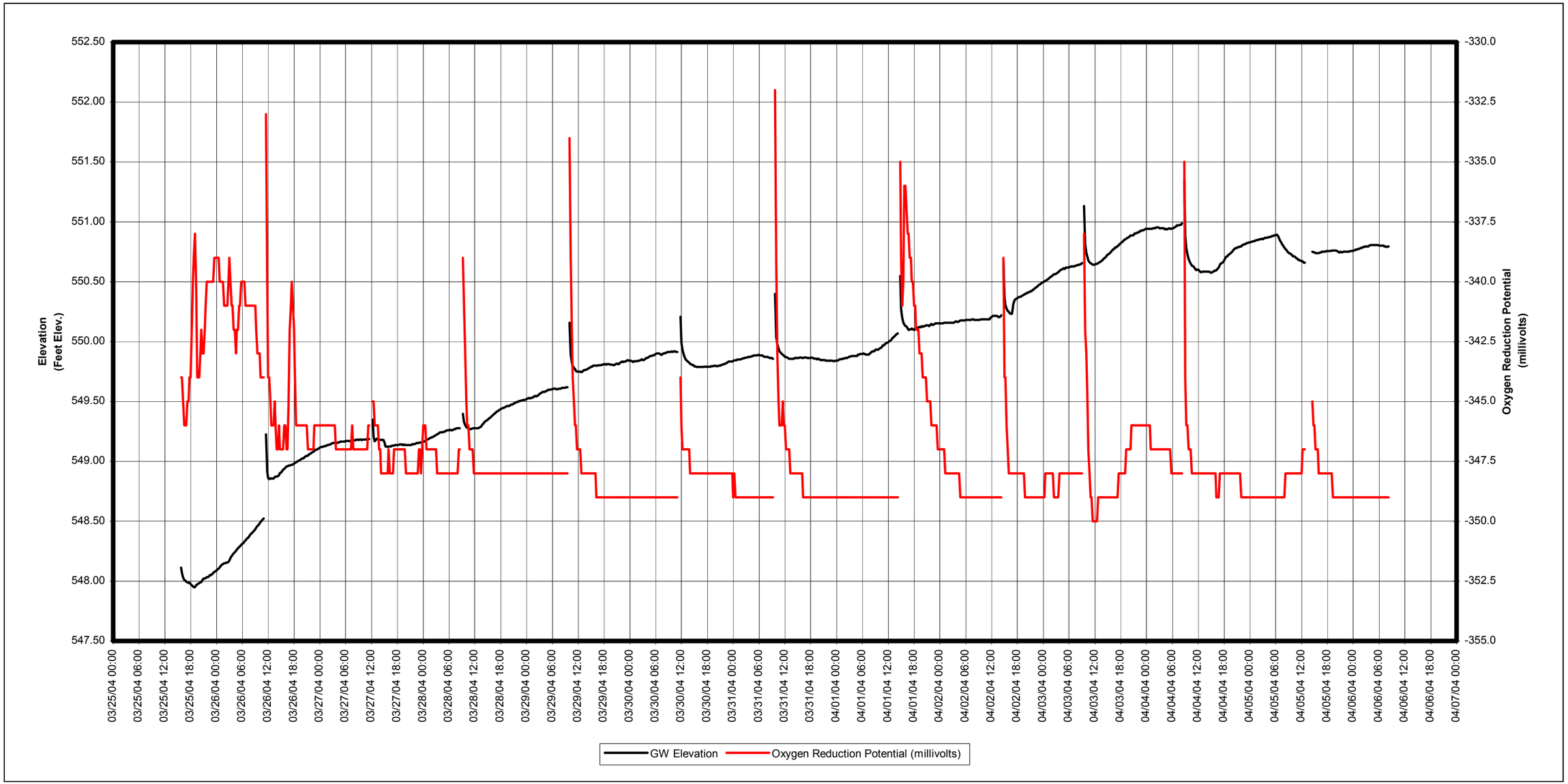

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FIGURE N2-5

GW03-015A-P2, GROUNDWATER ELEVATIONS AND DISSOLVED OXYGEN

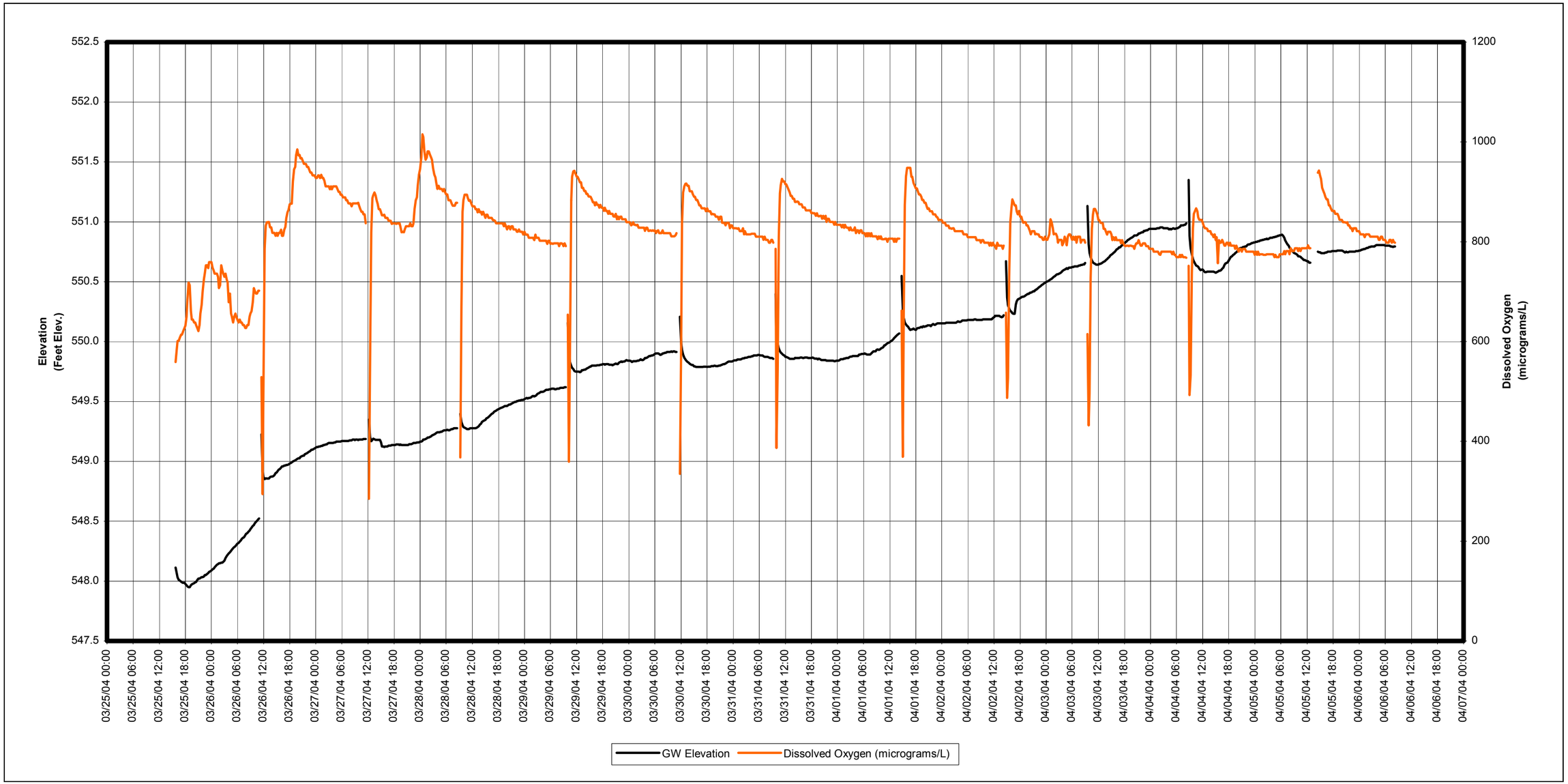

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FIGURE N2-6

GW03-015A-P2, GROUNDWATER ELEVATIONS AND BAROMETRIC PRESSURE

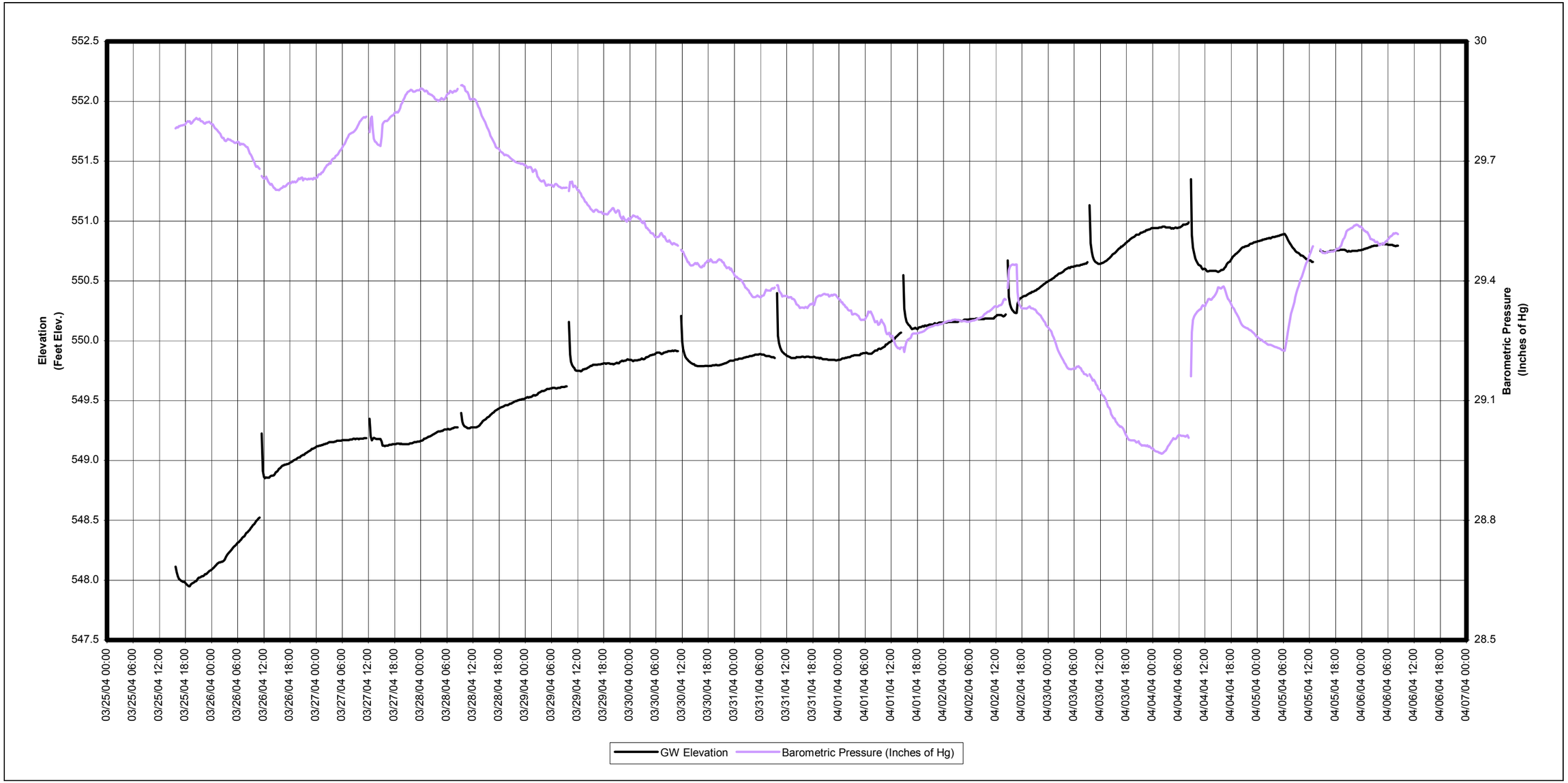

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FIGURE N2-7

GW03-015A-P2, GROUNDWATER ELEVATIONS AND TEMPERATURE

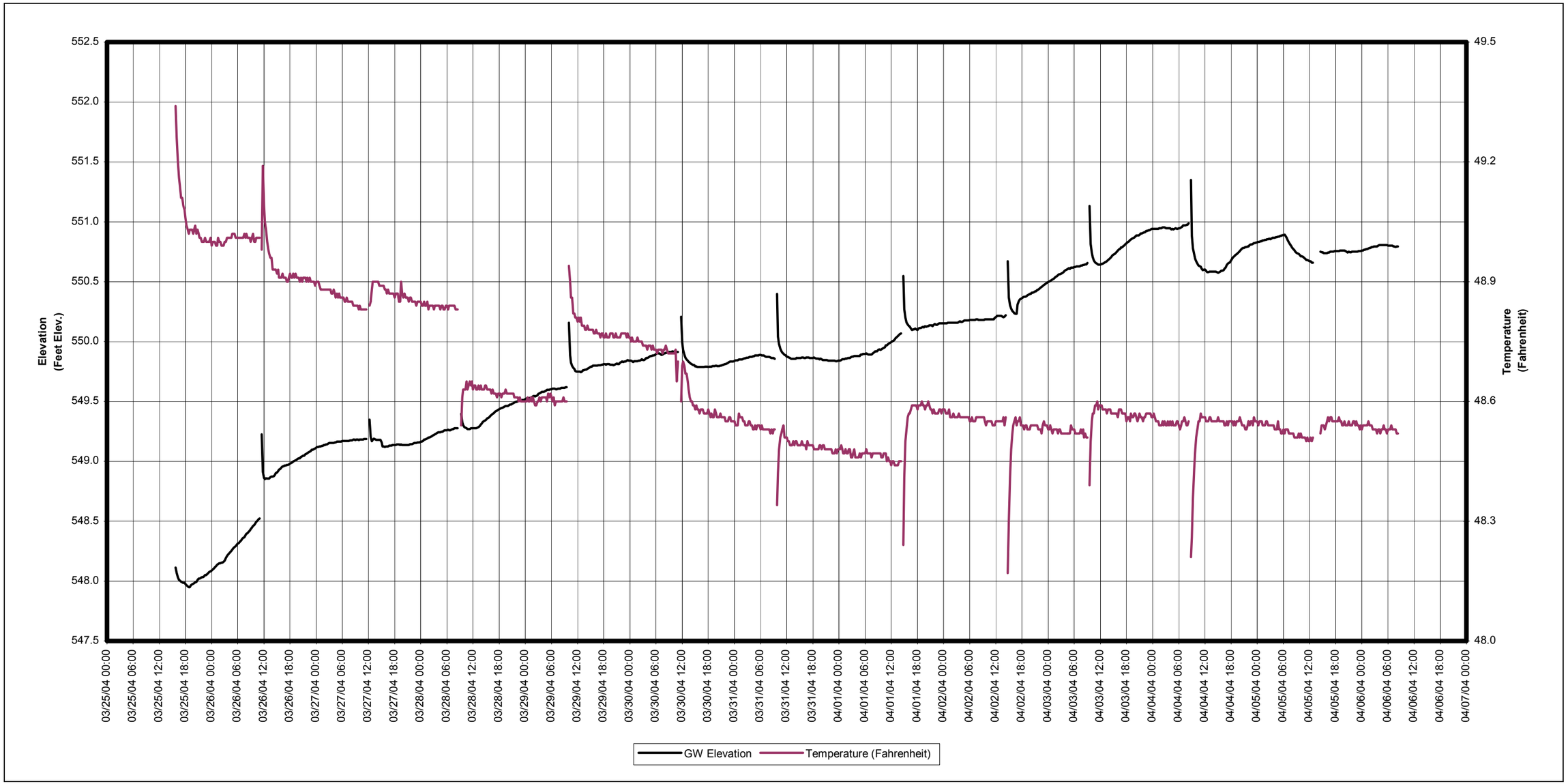

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FIGURE N3-1

GW03-015A-P3, GROUNDWATER ELEVATIONS AND CHLORIDE CONCENTRATIONS

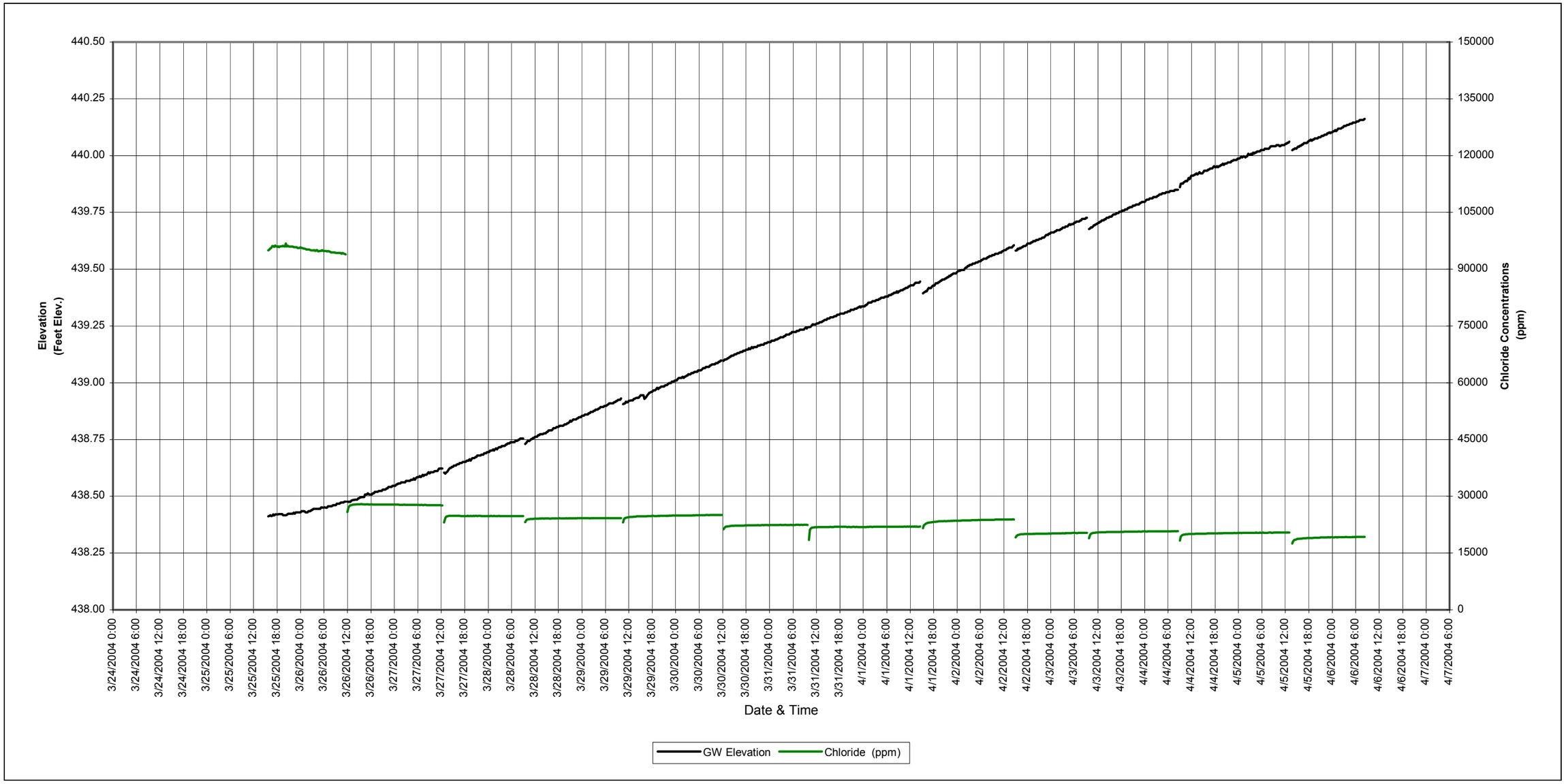

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FIGURE N3-2

GW03-015A-P3, GROUNDWATER ELEVATIONS AND CONDUCTIVITY

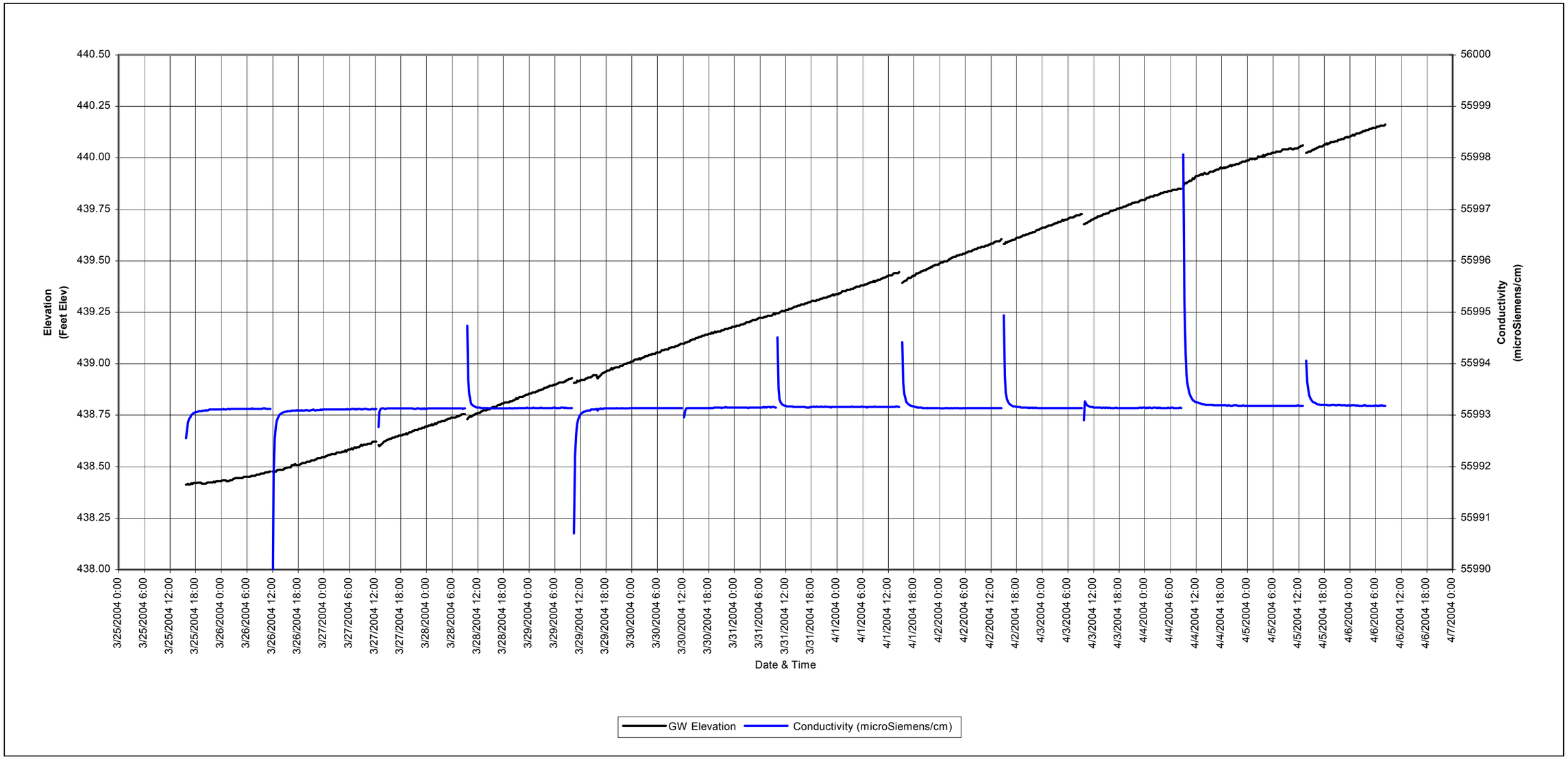

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FIGURE N3-3

GW03-015A-P3, GROUNDWATER ELEVATIONS AND pH

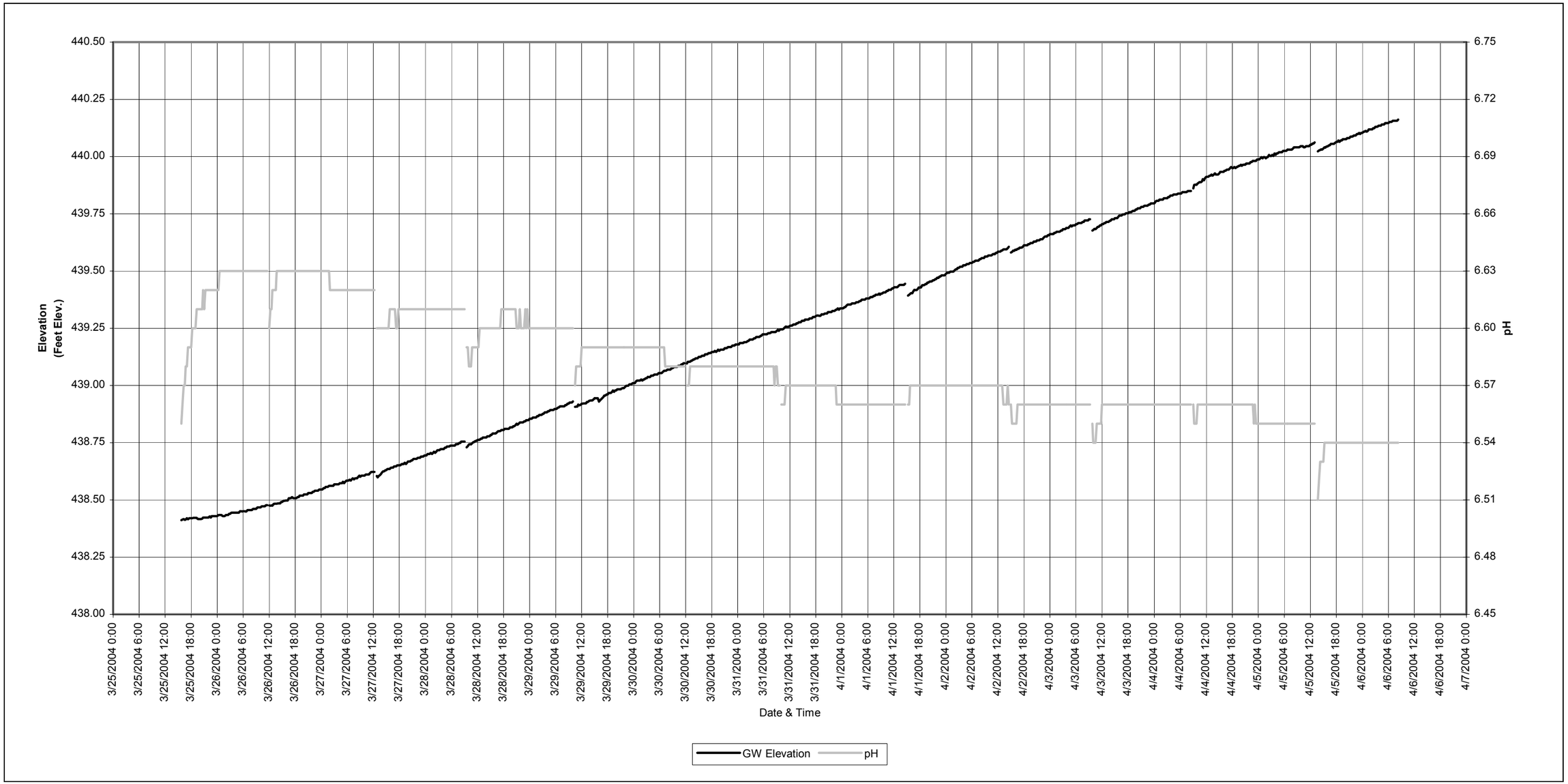

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FIGURE N3-4

GW03-015A-P3, GROUNDWATER ELEVATIONS AND OXIDATION-REDUCTION POTENTIAL

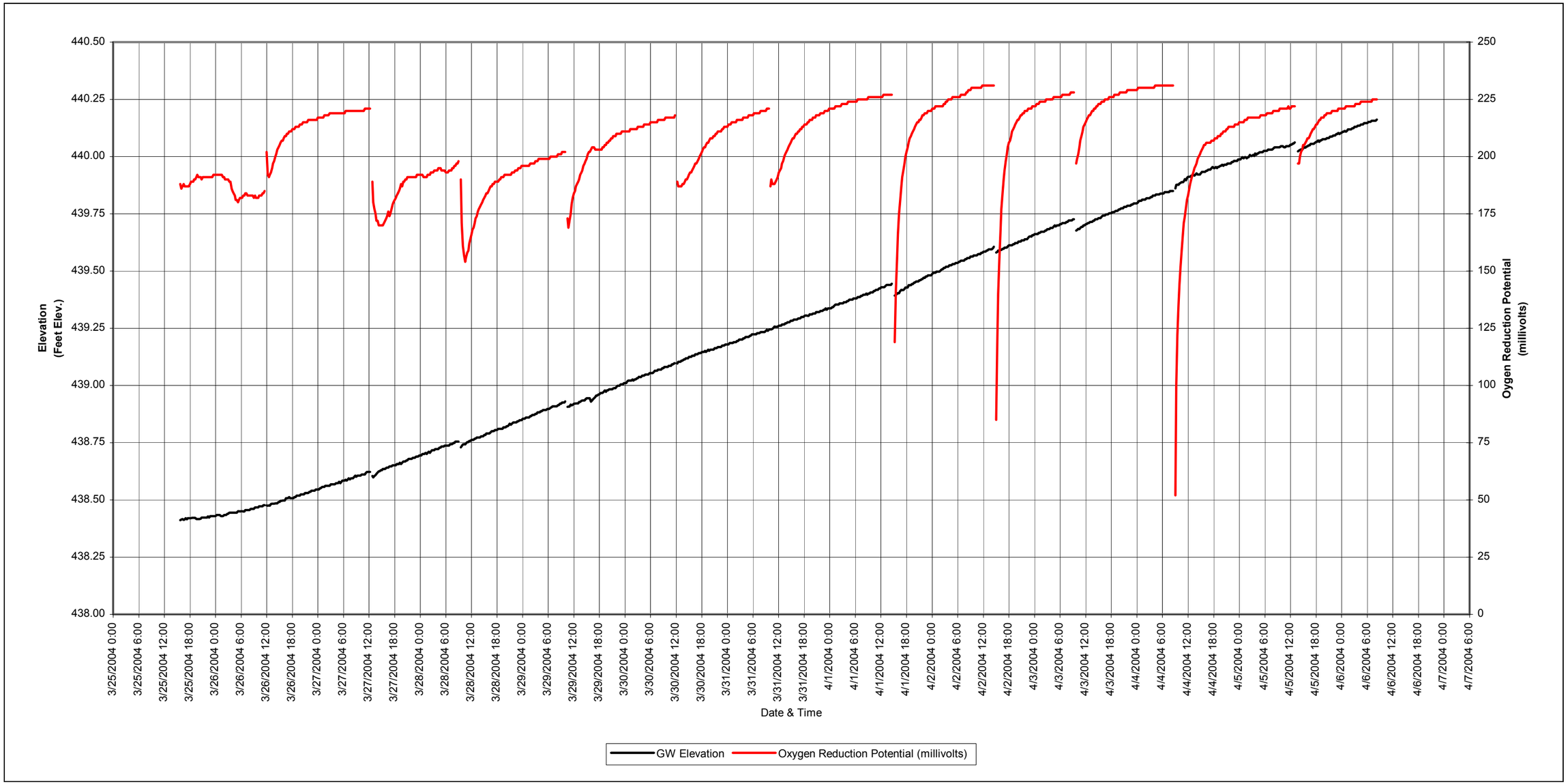

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FIGURE N3-5

GW03-015A-P3, GROUNDWATER ELEVATIONS AND DISSOLVED OXYGEN

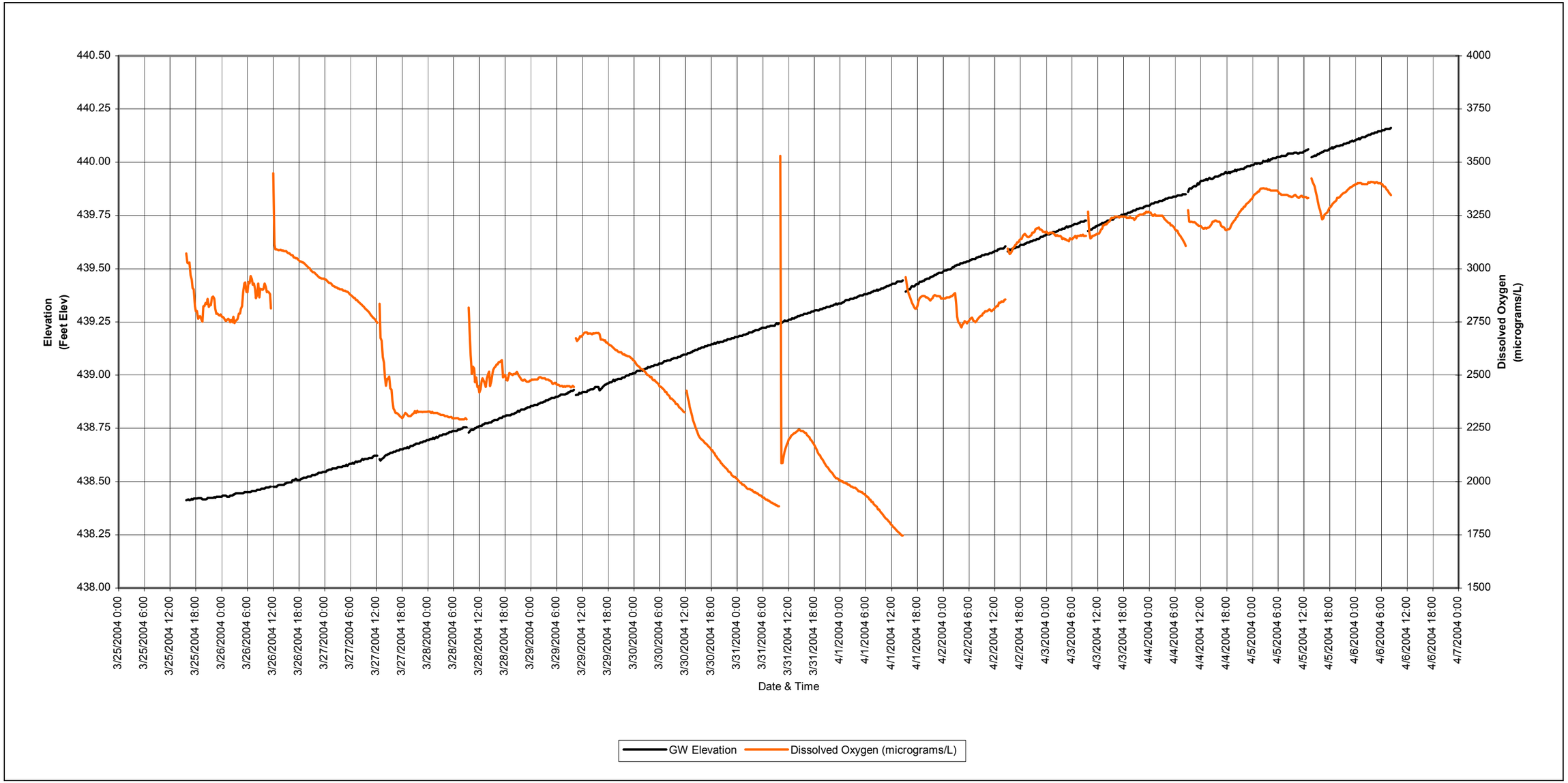

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FIGURE N3-6

GW03-015A-P3, GROUNDWATER ELEVATIONS AND BAROMETRIC PRESSURE

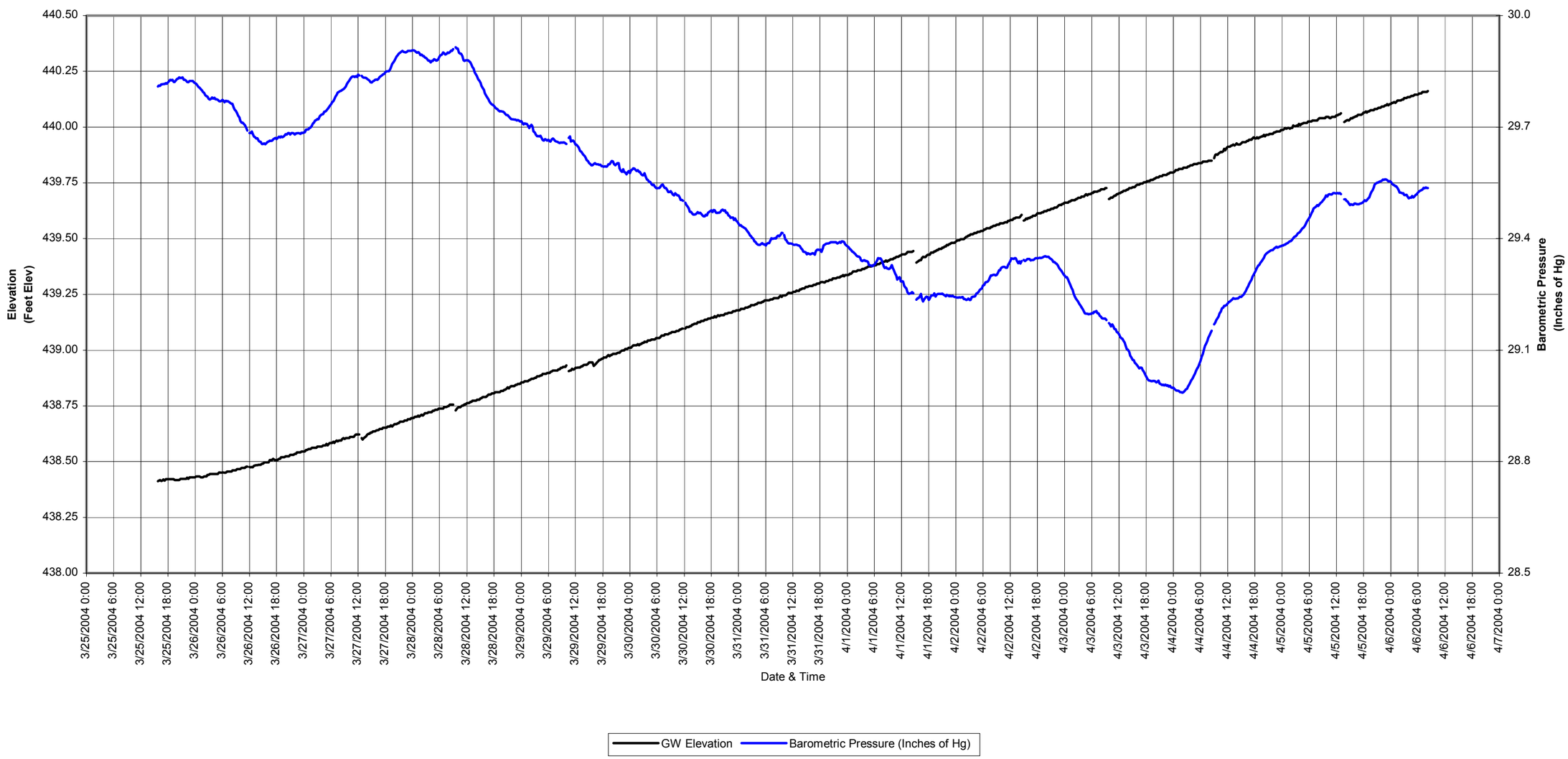

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FIGURE N3-7

GW03-015A-P3, GROUNDWATER ELEVATIONS AND TEMPERATURE

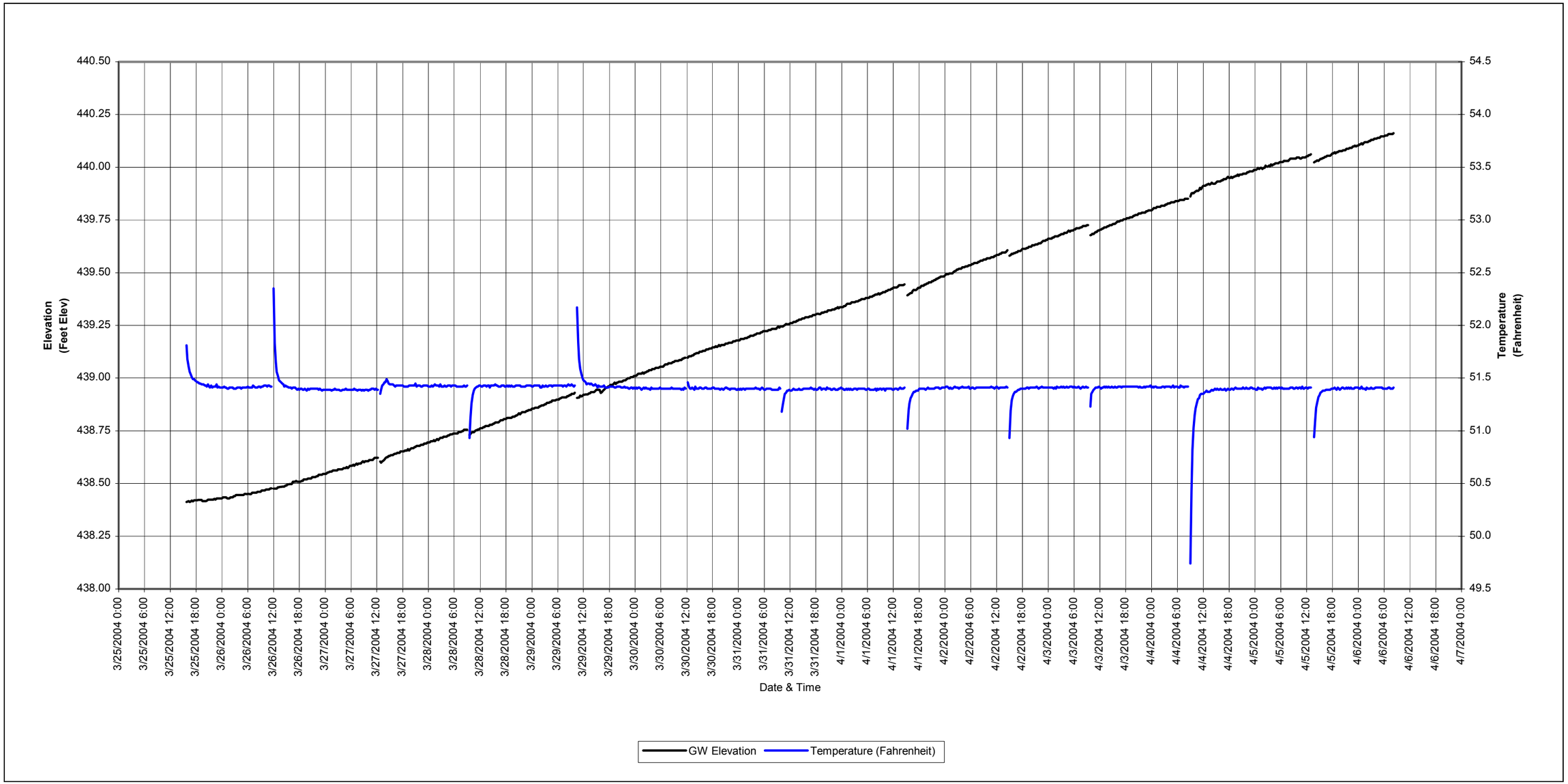

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FIGURE N4-1

GW03-015A-P4, GROUNDWATER ELEVATIONS AND CHLORIDE CONCENTRATIONS

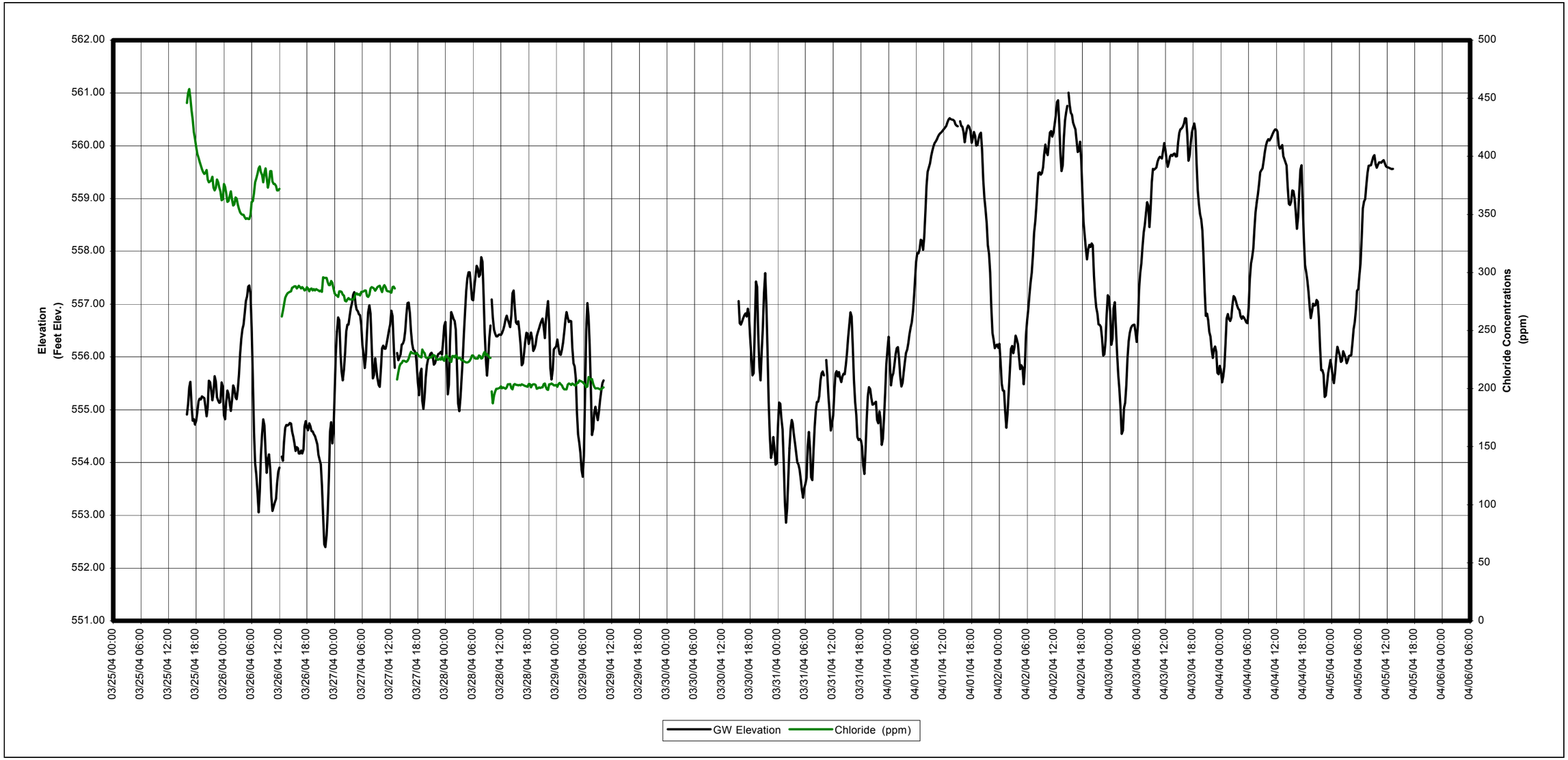

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FIGURE N4-2

GW03-015A-P4, GROUNDWATER ELEVATIONS AND CONDUCTIVITY

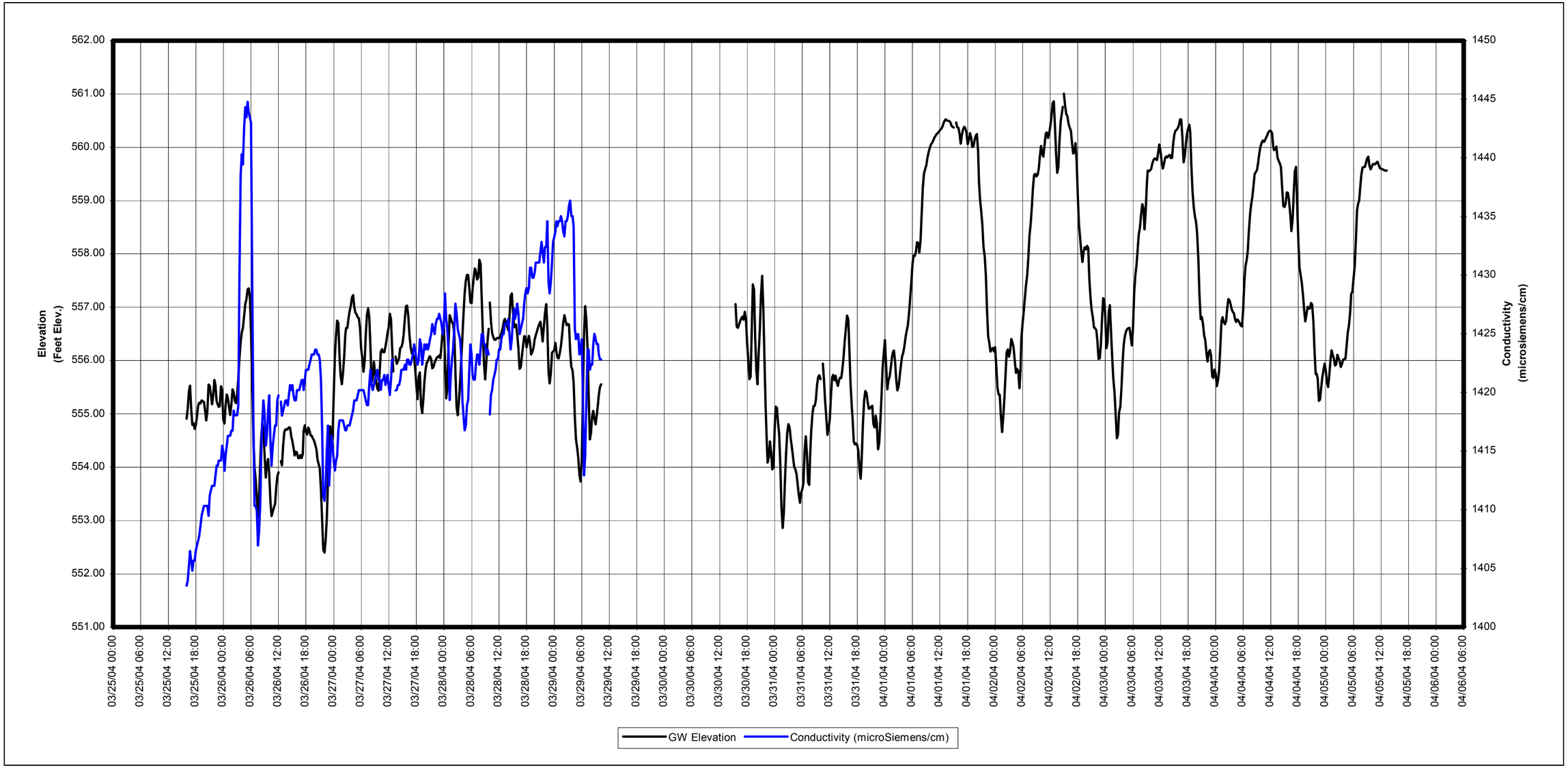

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FIGURE N4-3

GW03-015A-P4, GROUNDWATER ELEVATIONS AND pH

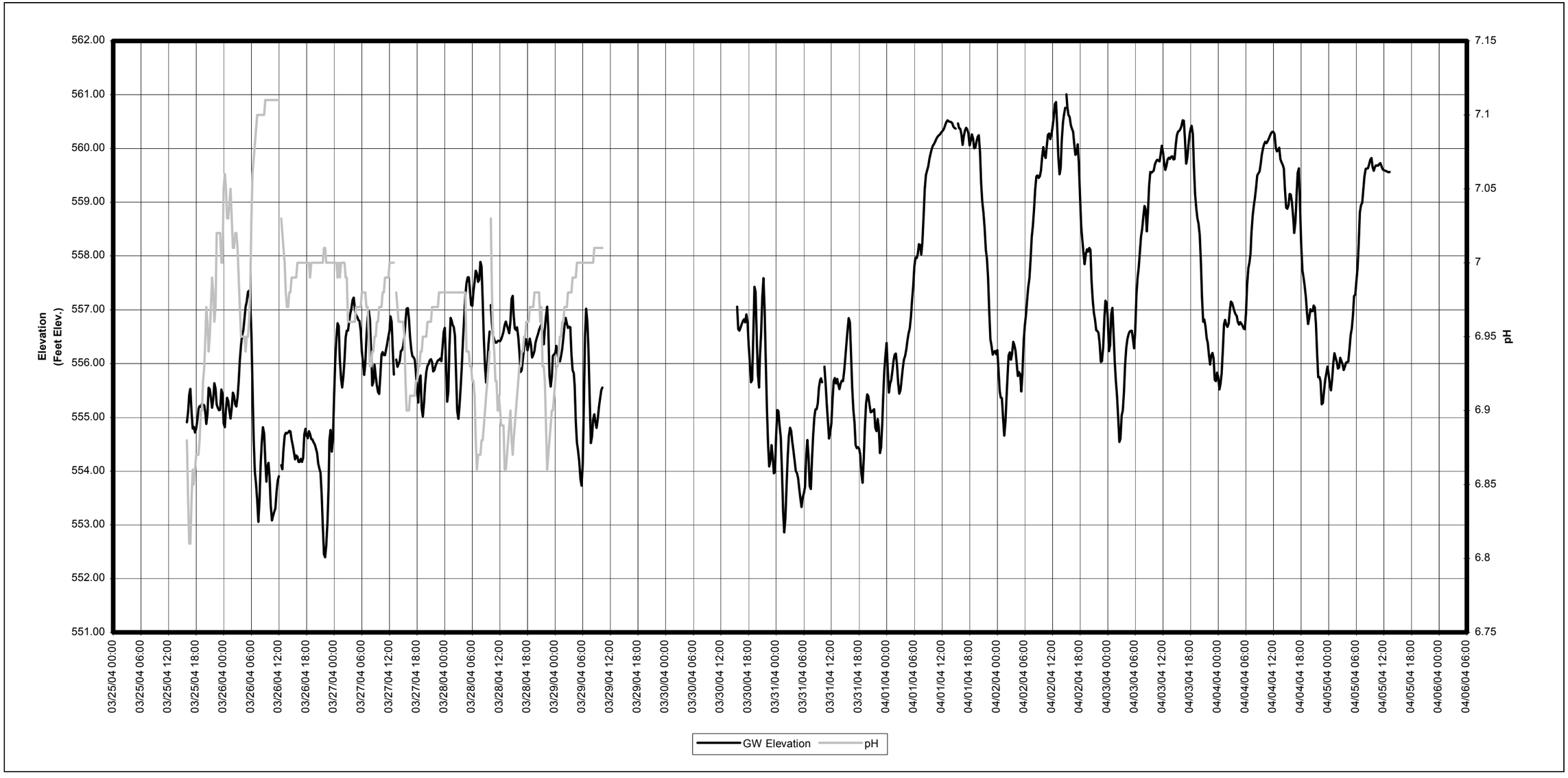

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FIGURE N4-4

GW03-015A-P4, GROUNDWATER ELEVATIONS AND OXIDATION-REDUCTION POTENTIAL

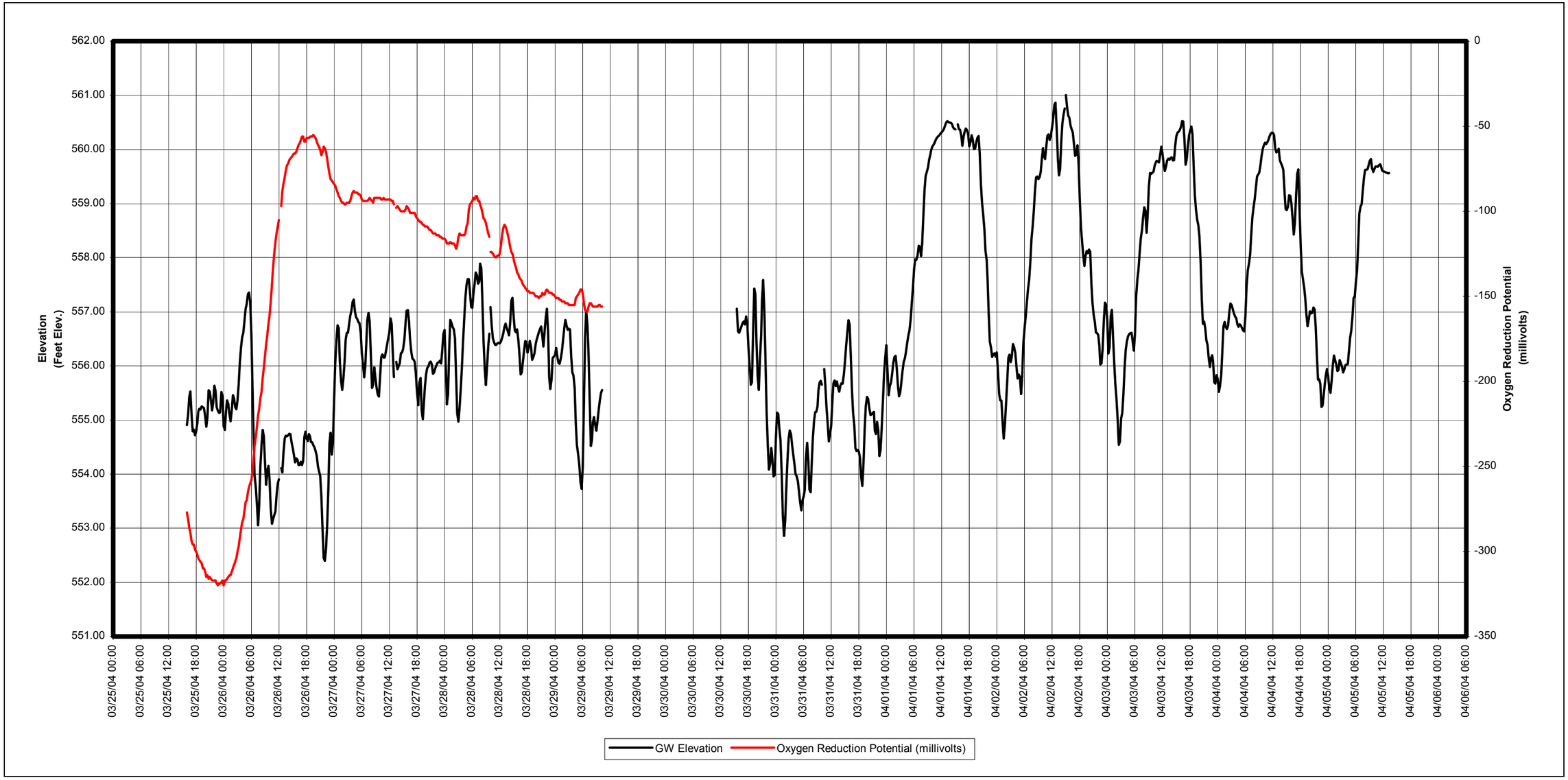

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FIGURE N4-5

GW03-015A-P4, GROUNDWATER ELEVATIONS AND DISSOLVED OXYGEN

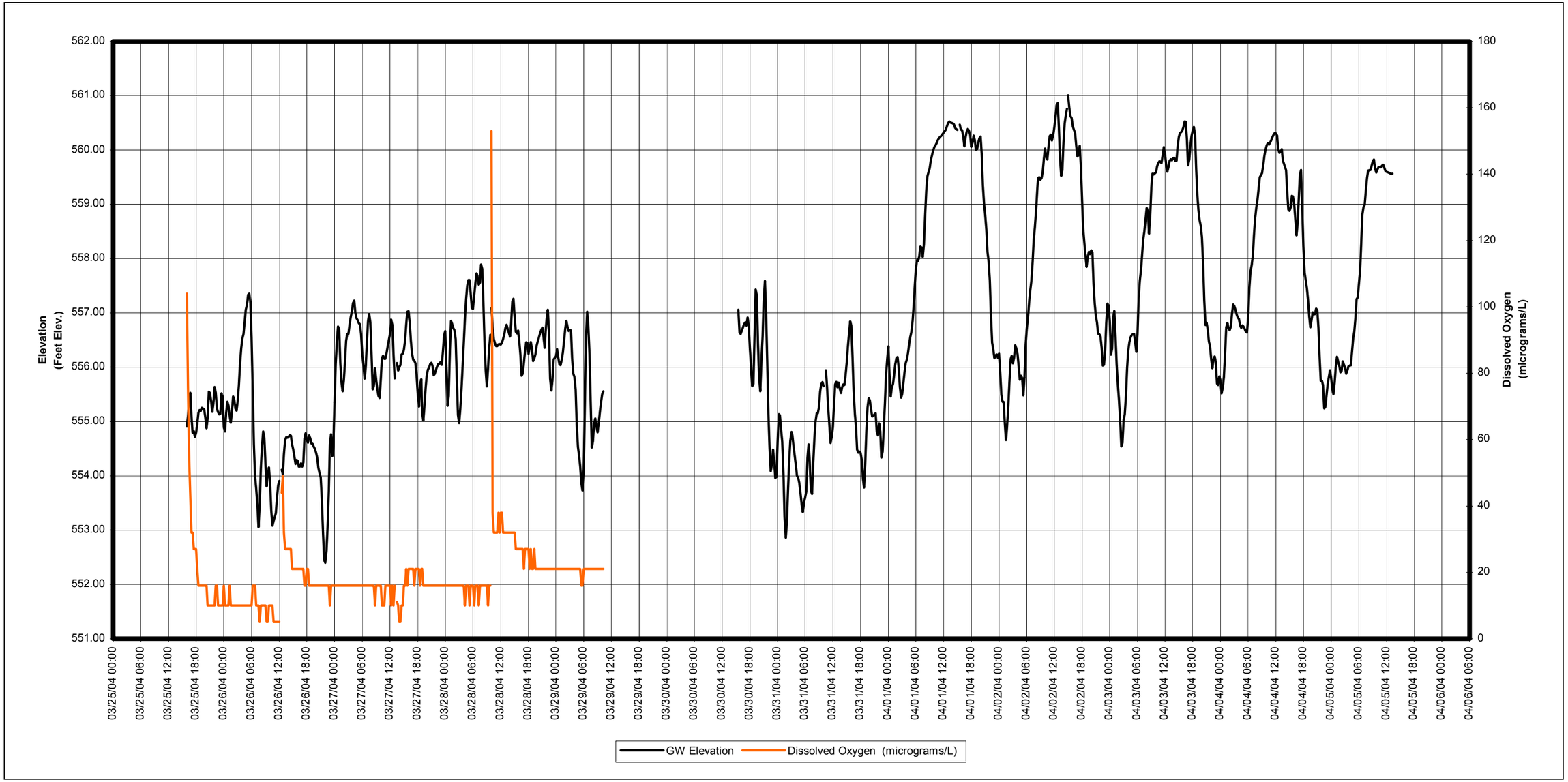

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FIGURE N4-6

GW03-015A-P4, GROUNDWATER ELEVATIONS AND BAROMETRIC PRESSURE

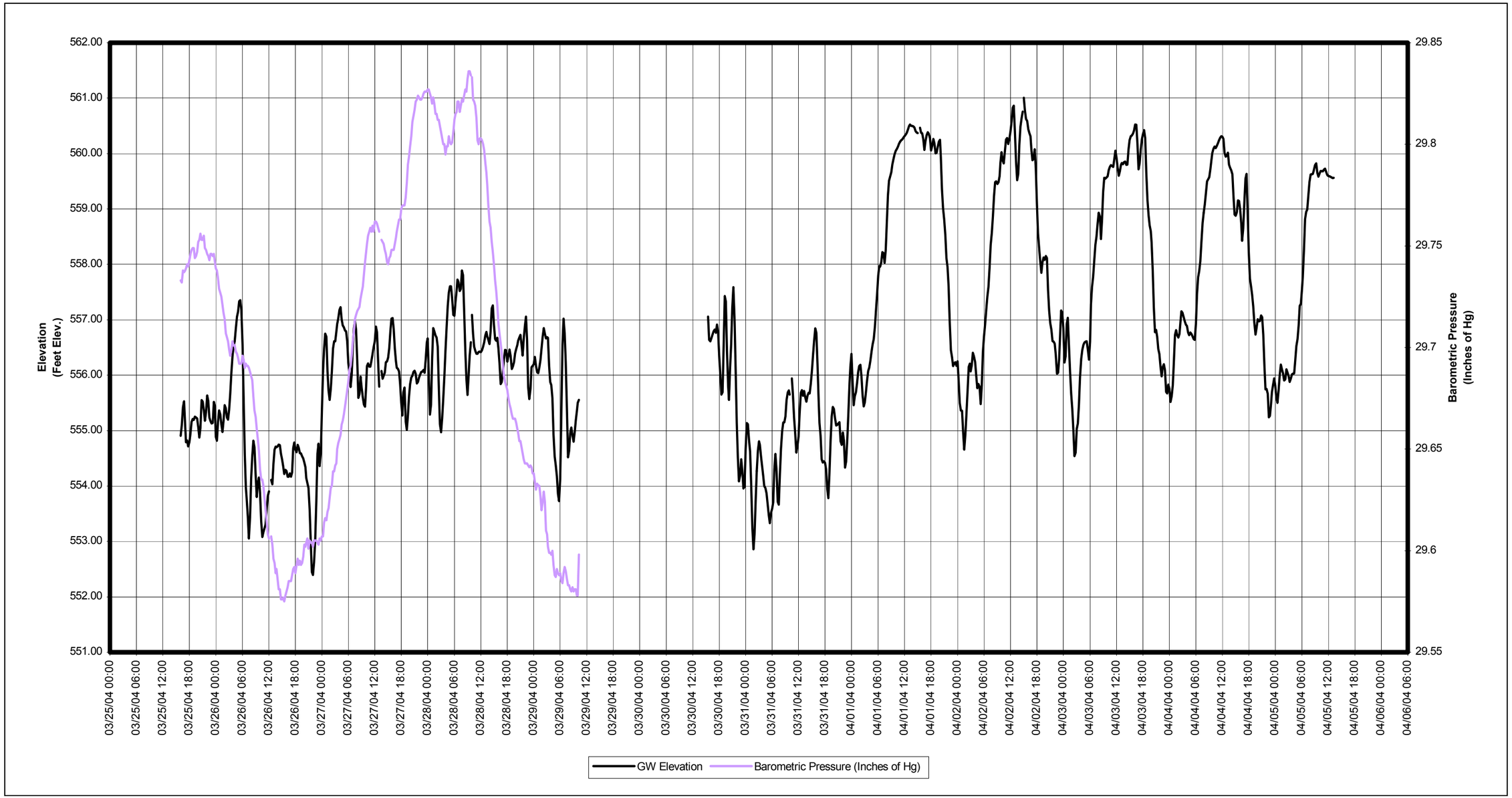

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FIGURE N4-7

GW03-015A-P4, GROUNDWATER ELEVATIONS AND TEMPERATURE

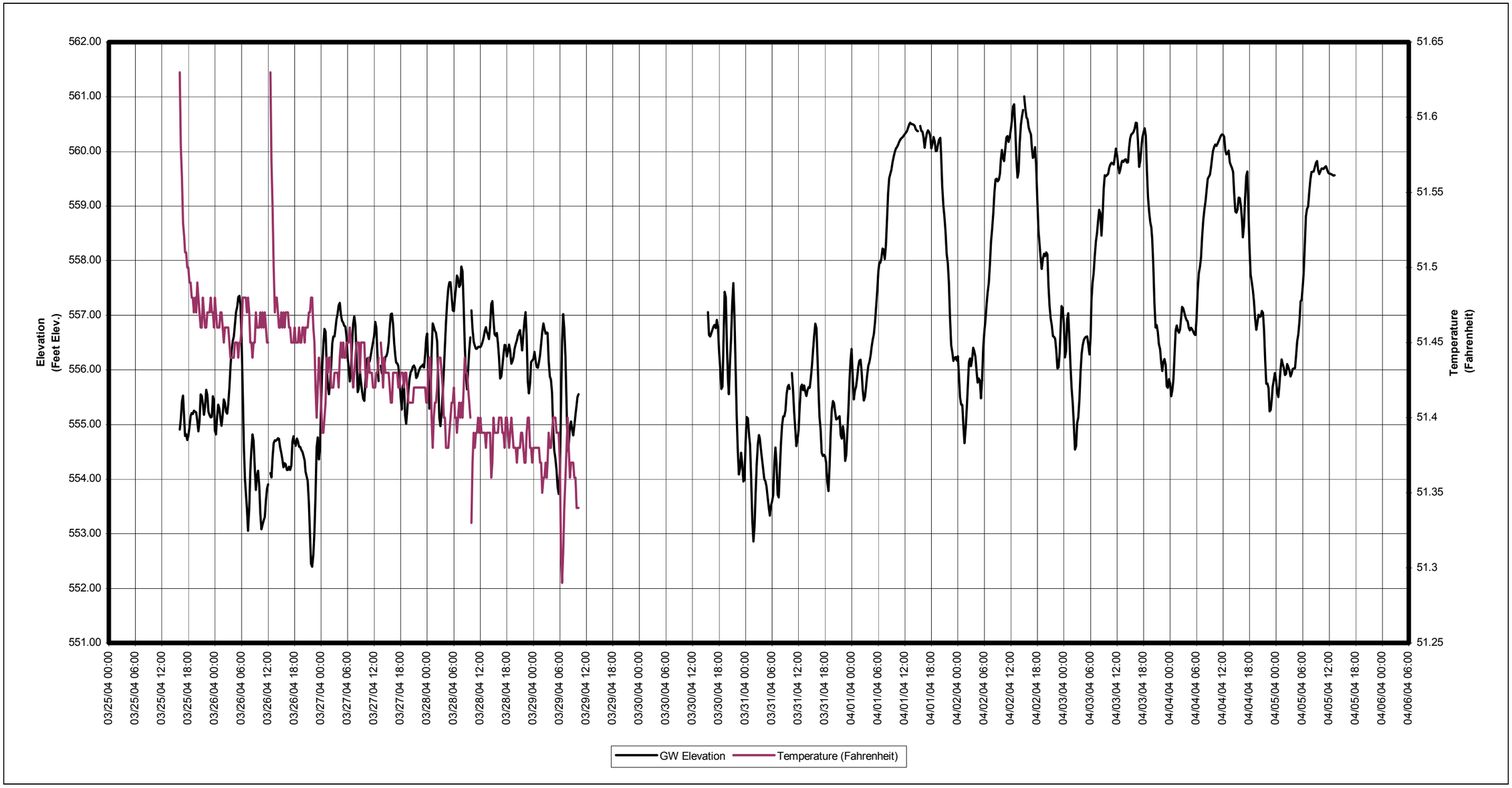

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FIGURE N5-1

GW03-015A-P5, GROUNDWATER ELEVATIONS AND CHLORIDE CONCENTRATIONS

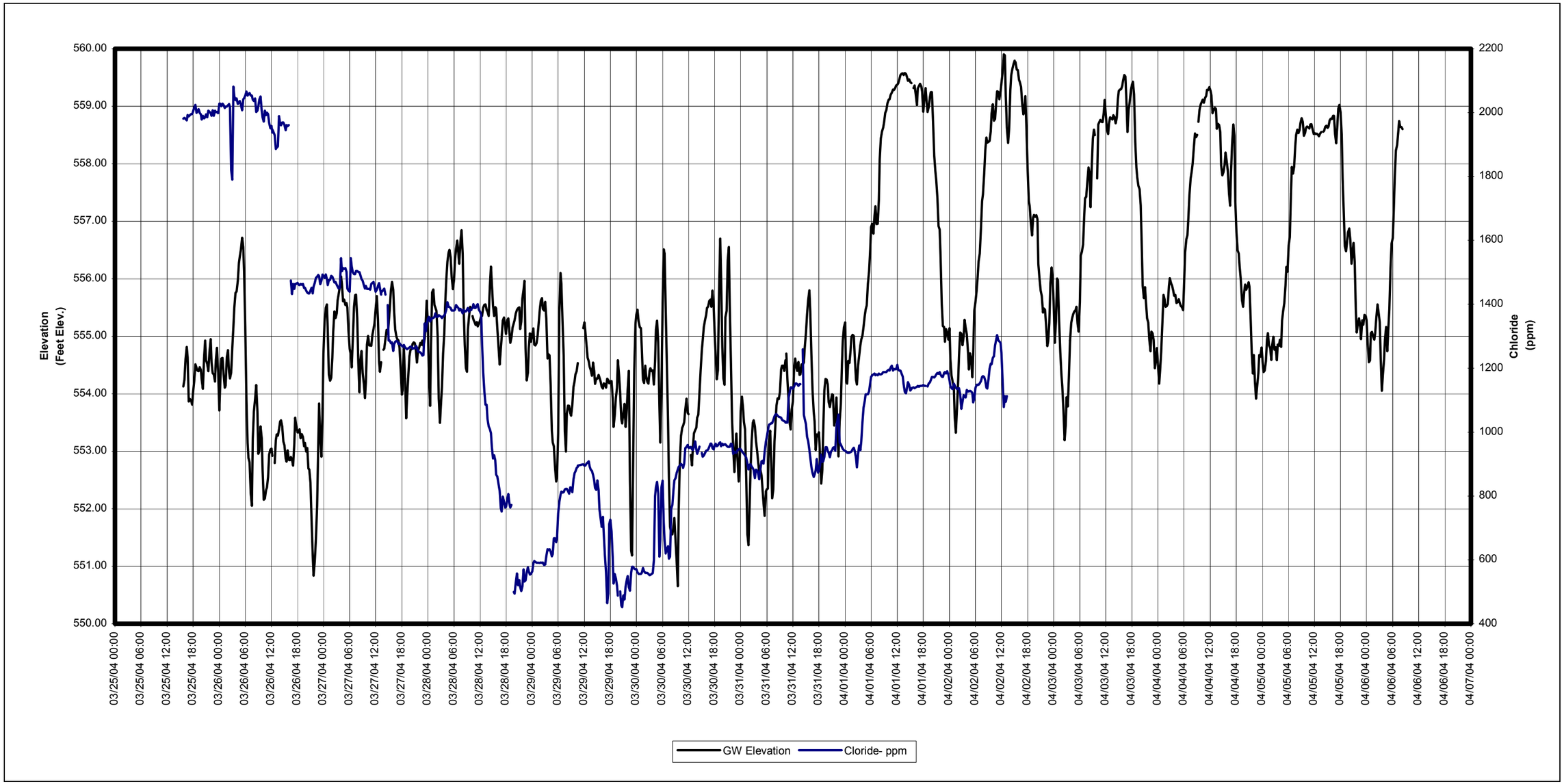

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FIGURE N5-2

GW03-015A-P5, GROUNDWATER ELEVATIONS AND CONDUCTIVITY

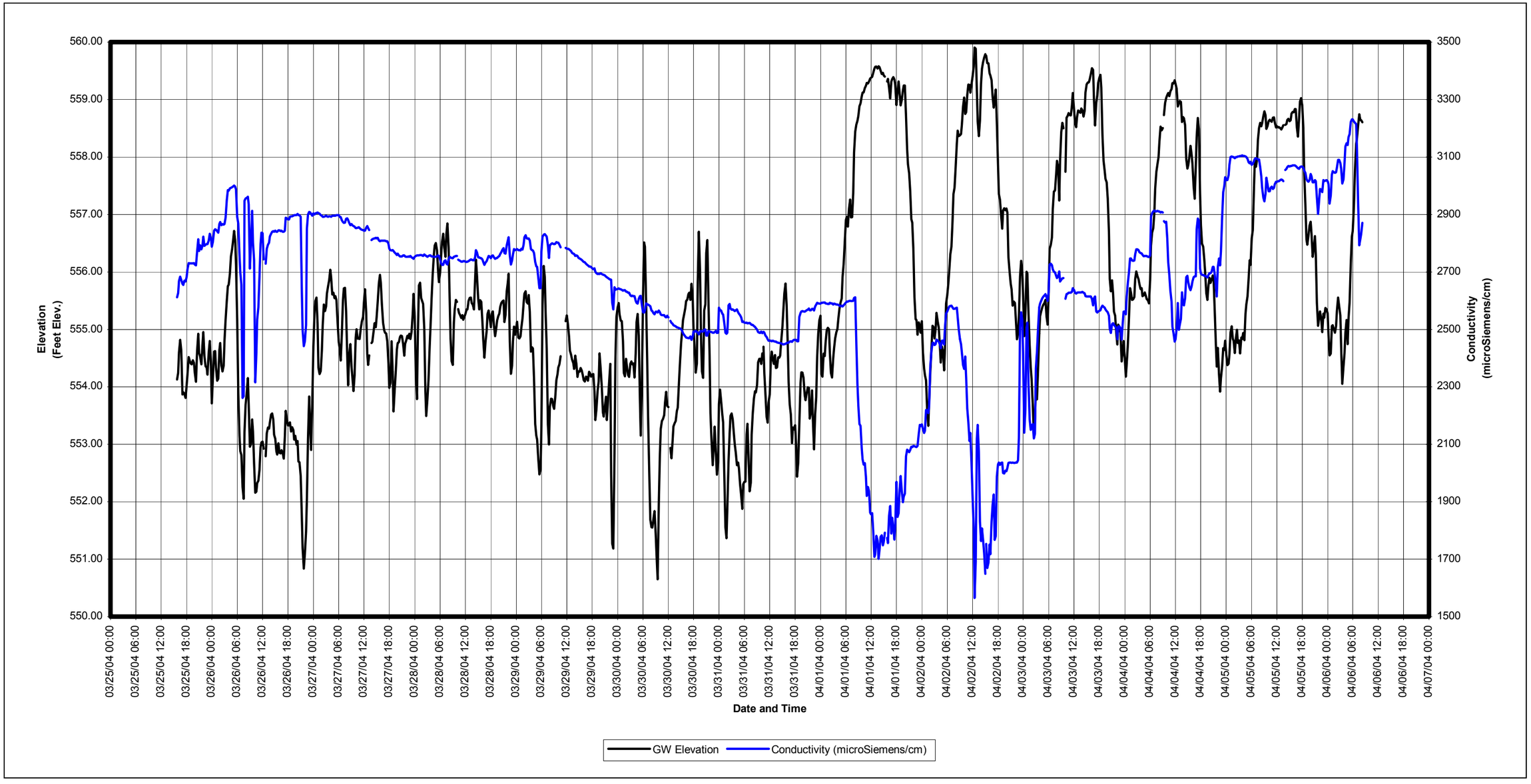

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FIGURE N5-3

GW03-015A-P5, GROUNDWATER ELEVATIONS AND pH

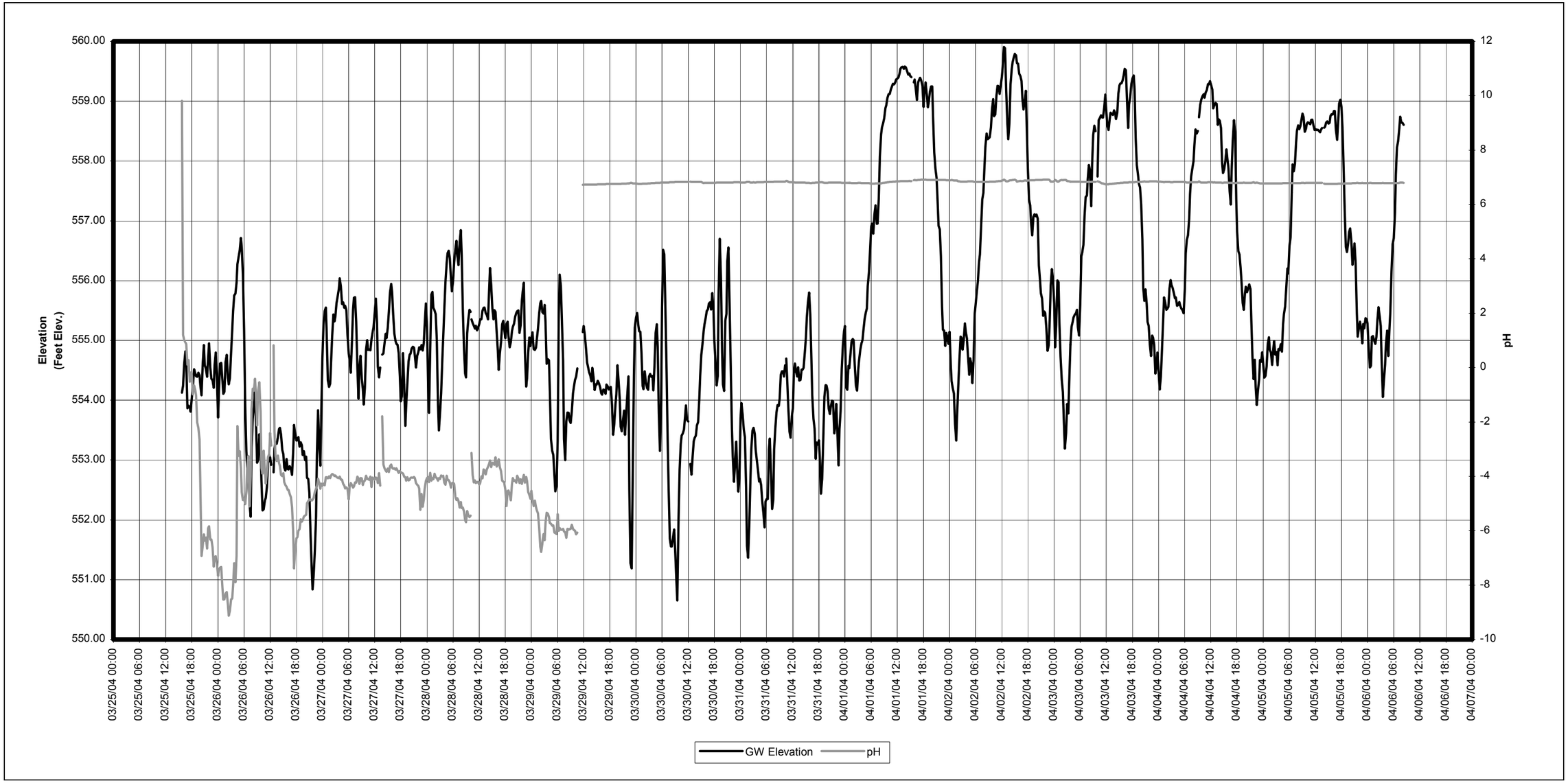

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FIGURE N5-4

GW03-015A-P5, GROUNDWATER ELEVATIONS AND OXIDATION-REDUCTION POTENTIAL

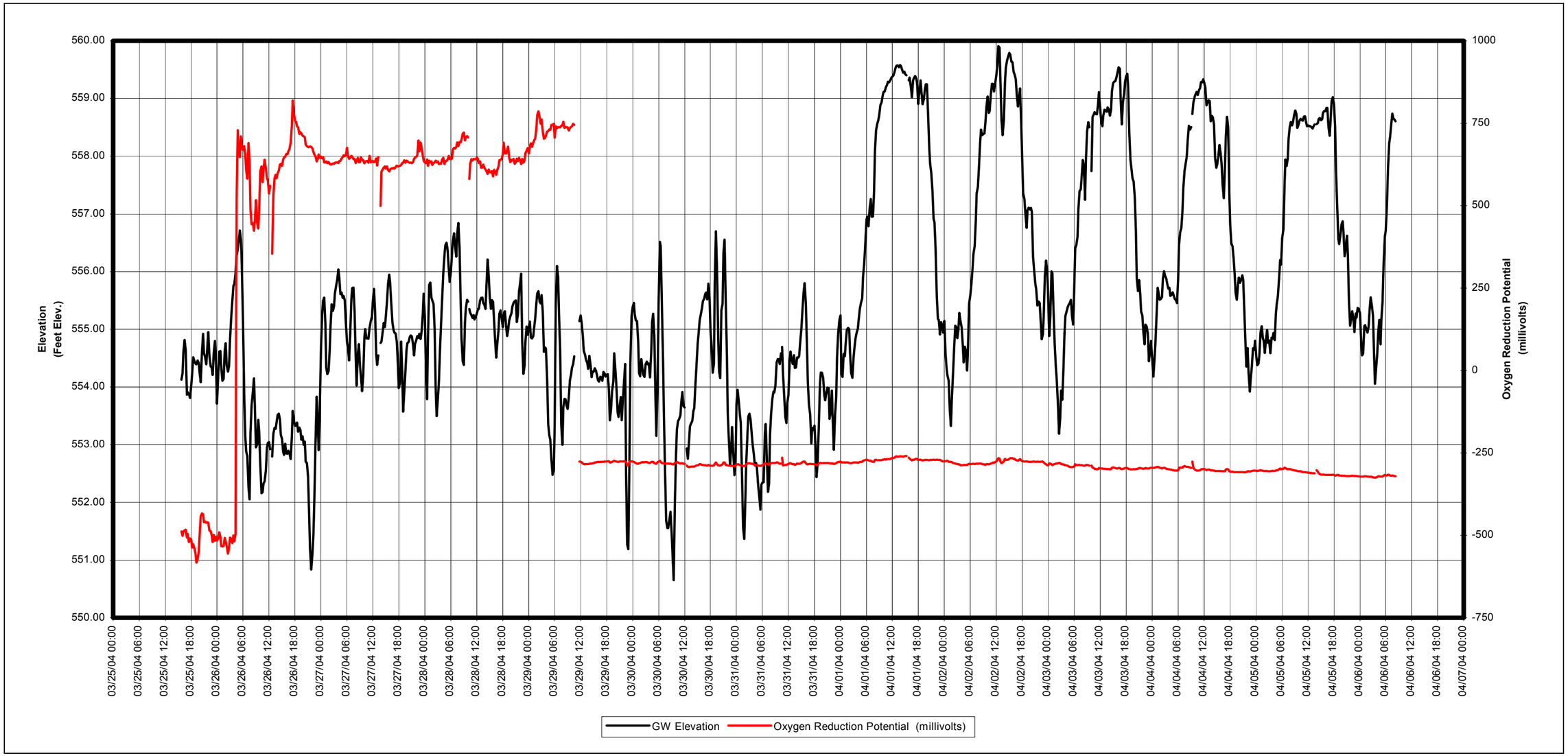

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FIGURE N5-5

GW03-015A-P5, GROUNDWATER ELEVATIONS AND DISSOLVED OXYGEN

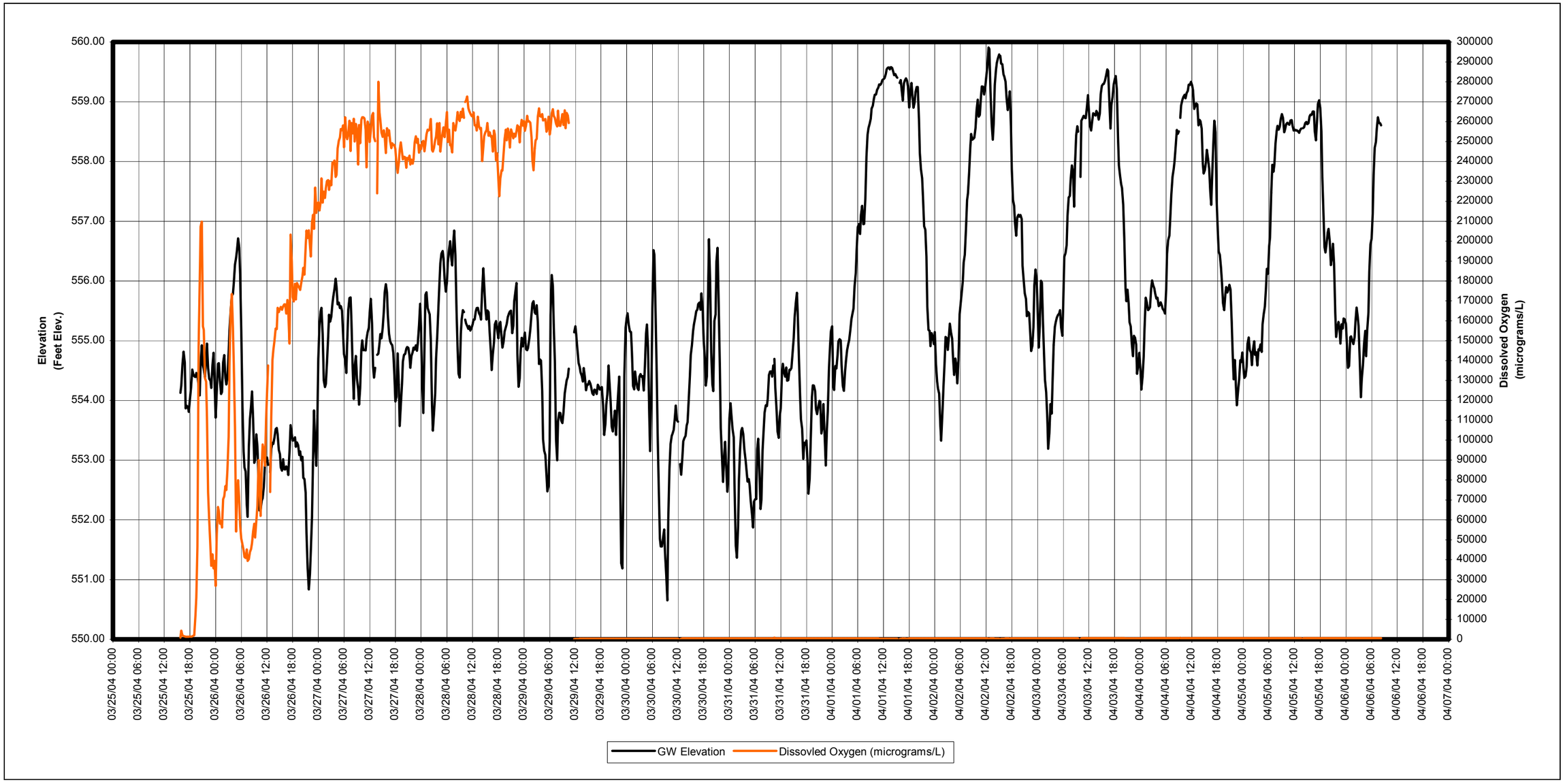

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FIGURE N5-6

GW03-015A-P5, GROUNDWATER ELEVATIONS AND BAROMETRIC PRESSURE

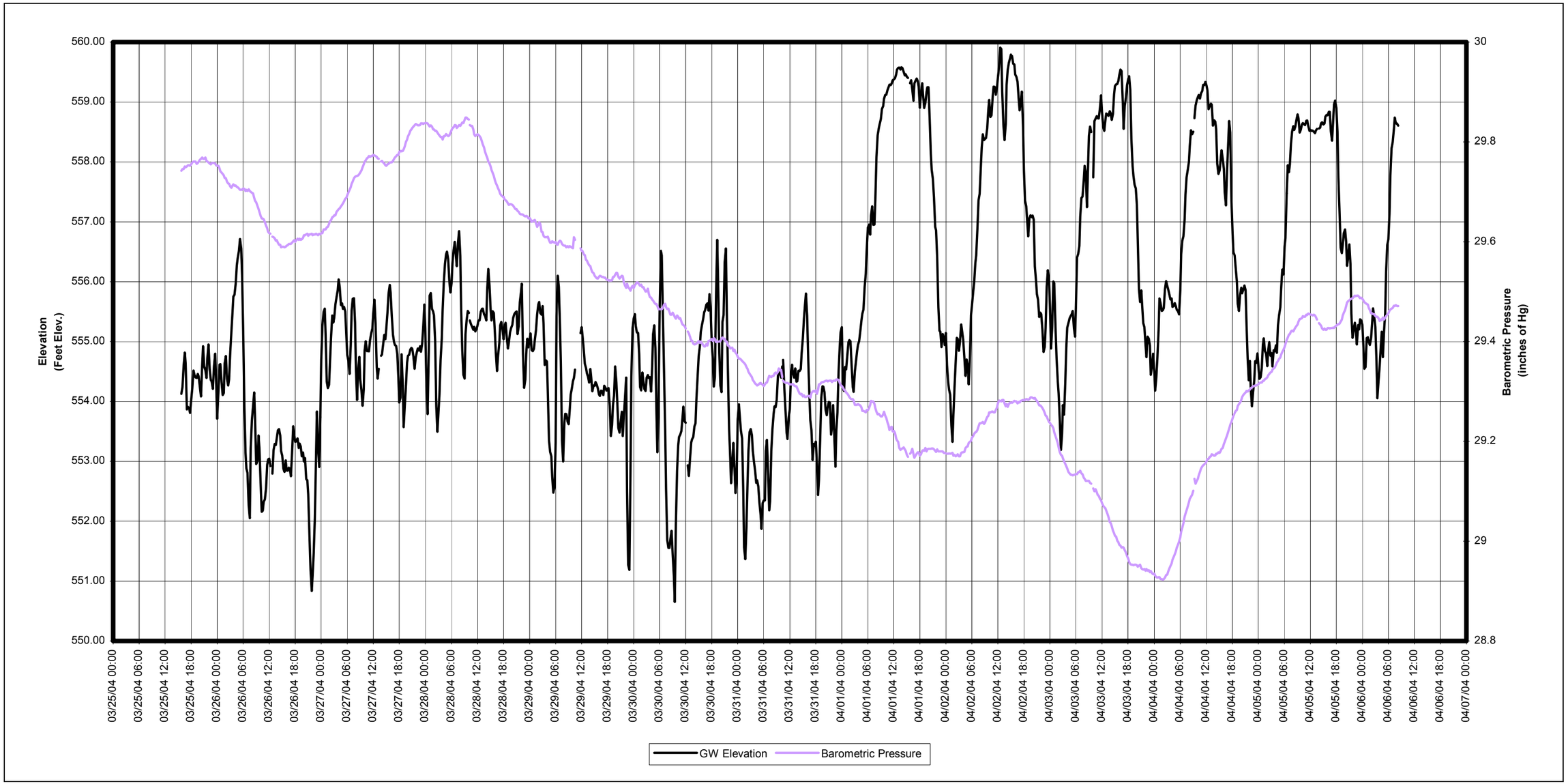

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FIGURE N5-7

GW03-015A-P5, GROUNDWATER ELEVATIONS AND TEMPERATURE

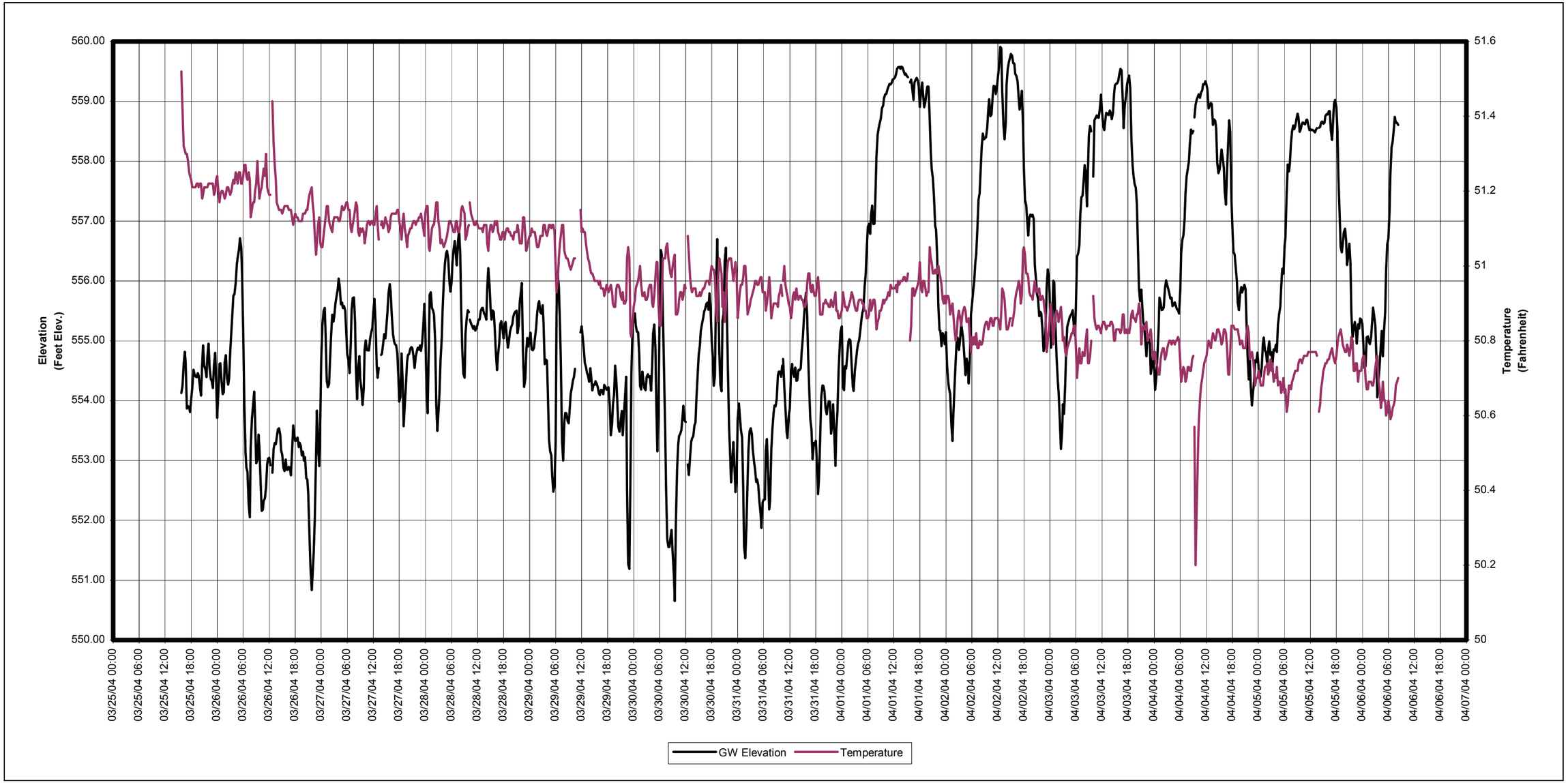

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FIGURE N6-1

GW03-015A-P6, GROUNDWATER ELEVATIONS AND CHLORIDE CONCENTRATIONS

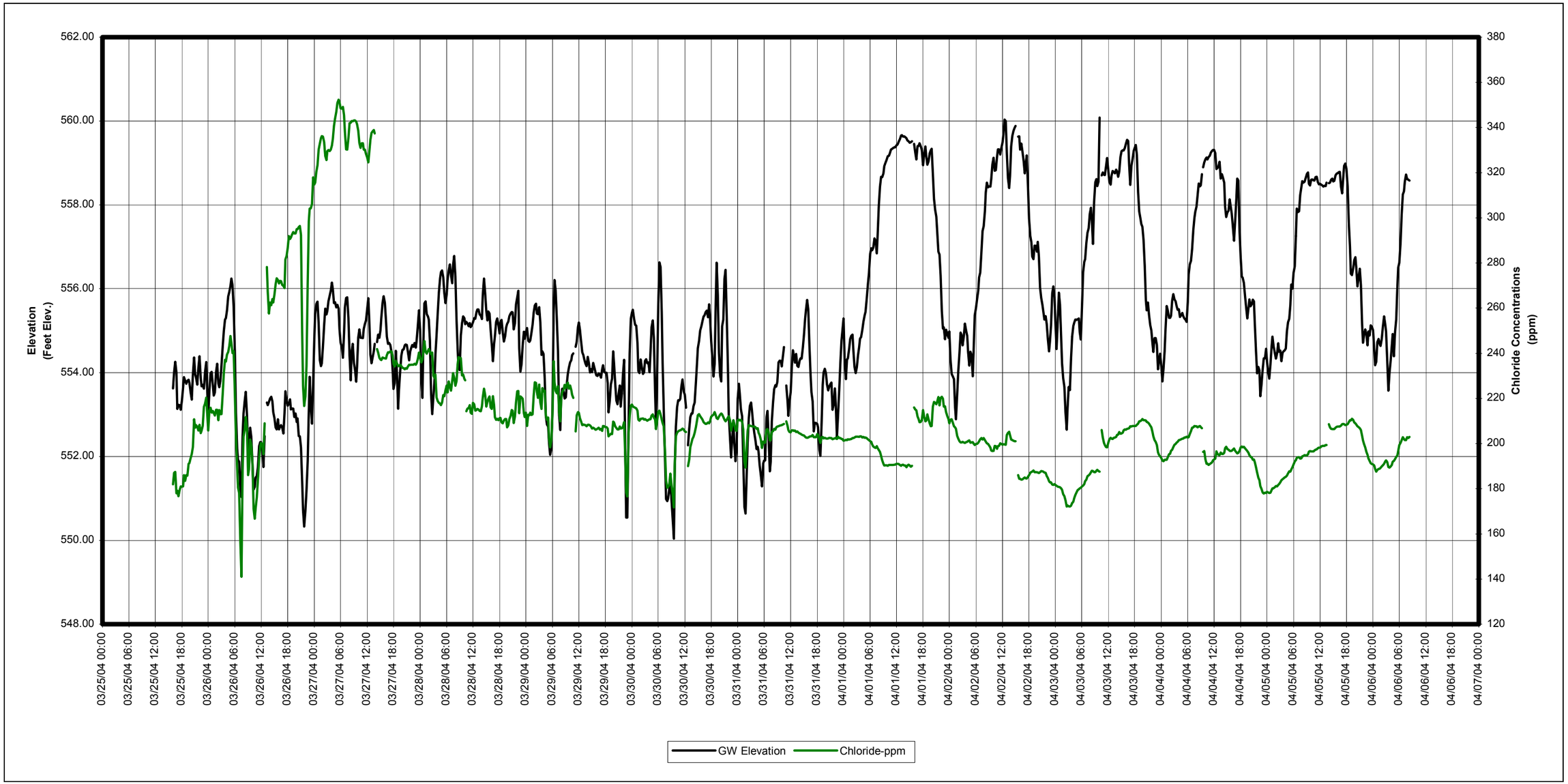

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FIGURE N6-2

GW03-015A-P6, GROUNDWATER ELEVATIONS AND CONDUCTIVITY

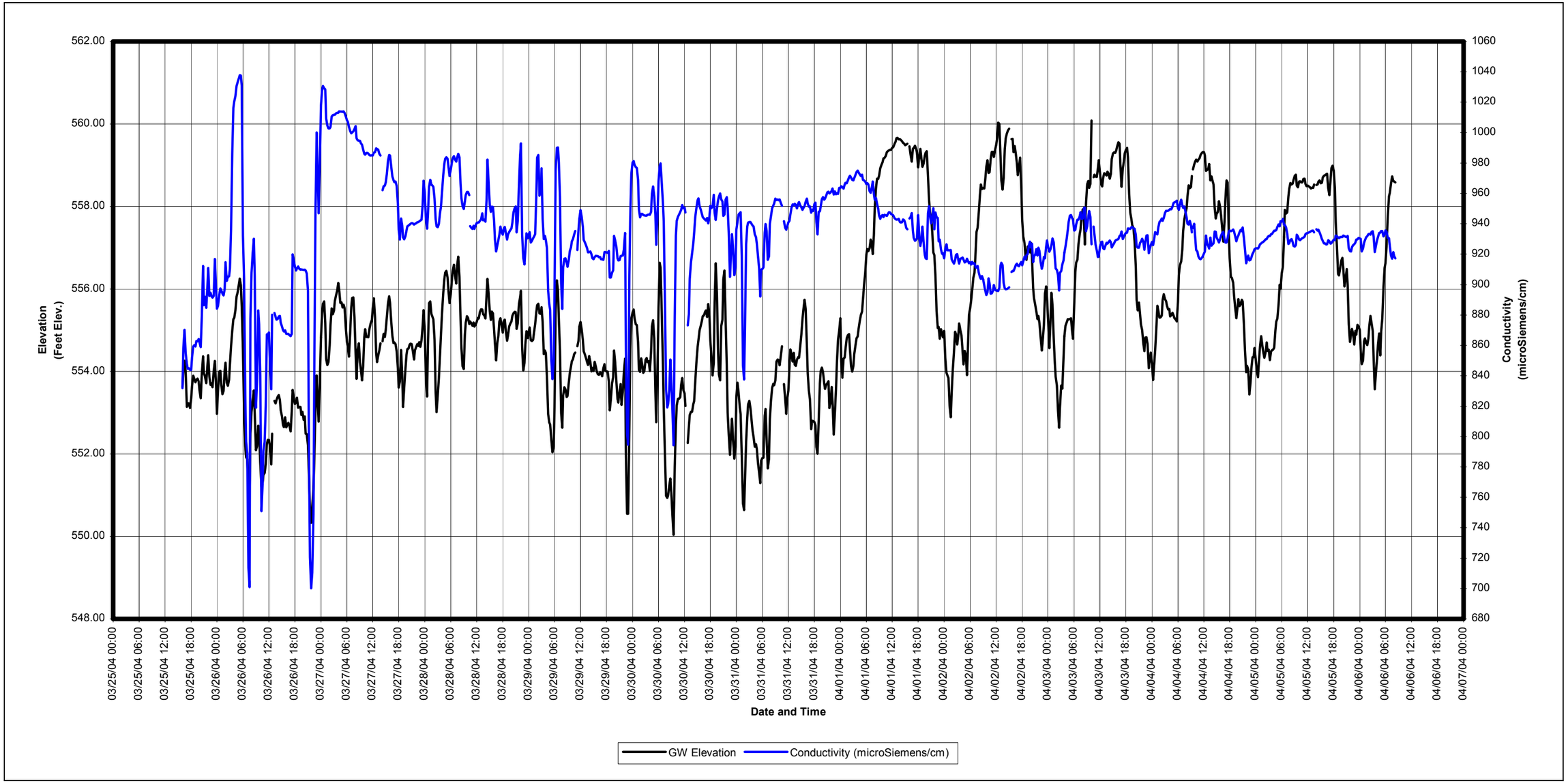

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FIGURE N6-3

GW03-015A-P6, GROUNDWATER ELEVATIONS AND pH

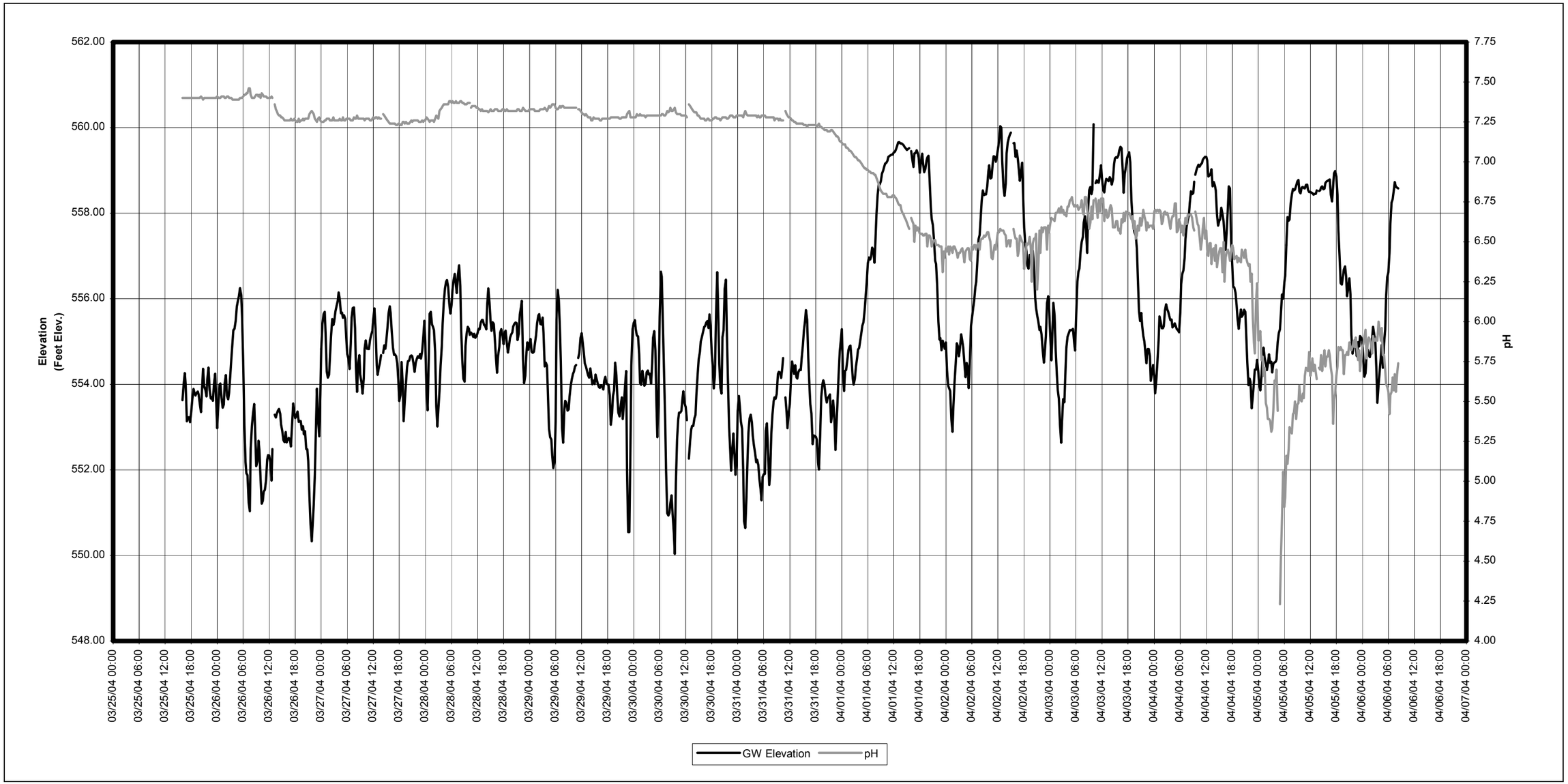

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FIGURE N6-4

GW03-015A-P6, GROUNDWATER ELEVATIONS AND OXIDATION-REDUCTION POTENTIAL

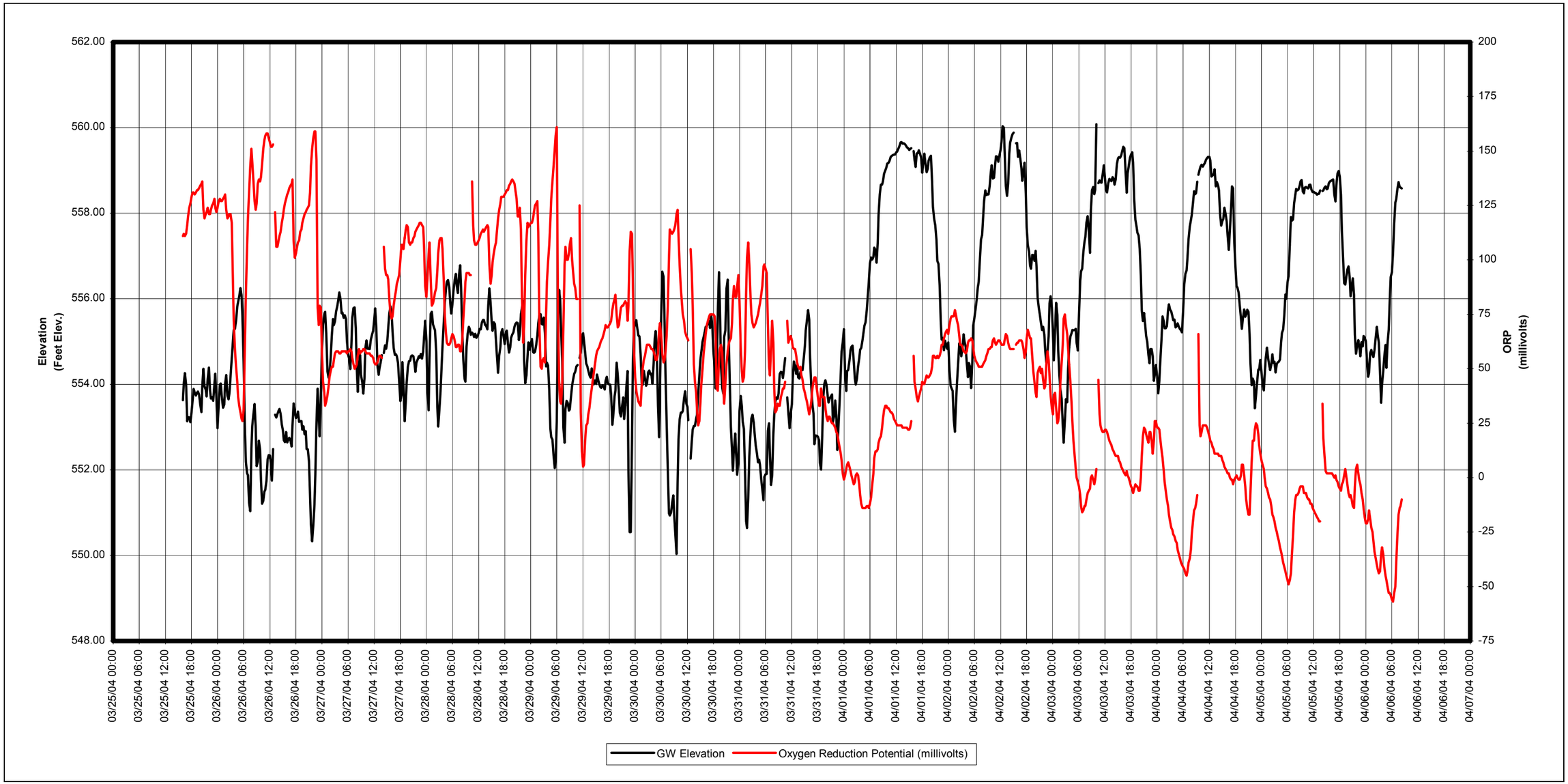

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FIGURE N6-5

GW03-015A-P6, GROUNDWATER ELEVATIONS AND DISSOLVED OXYGEN

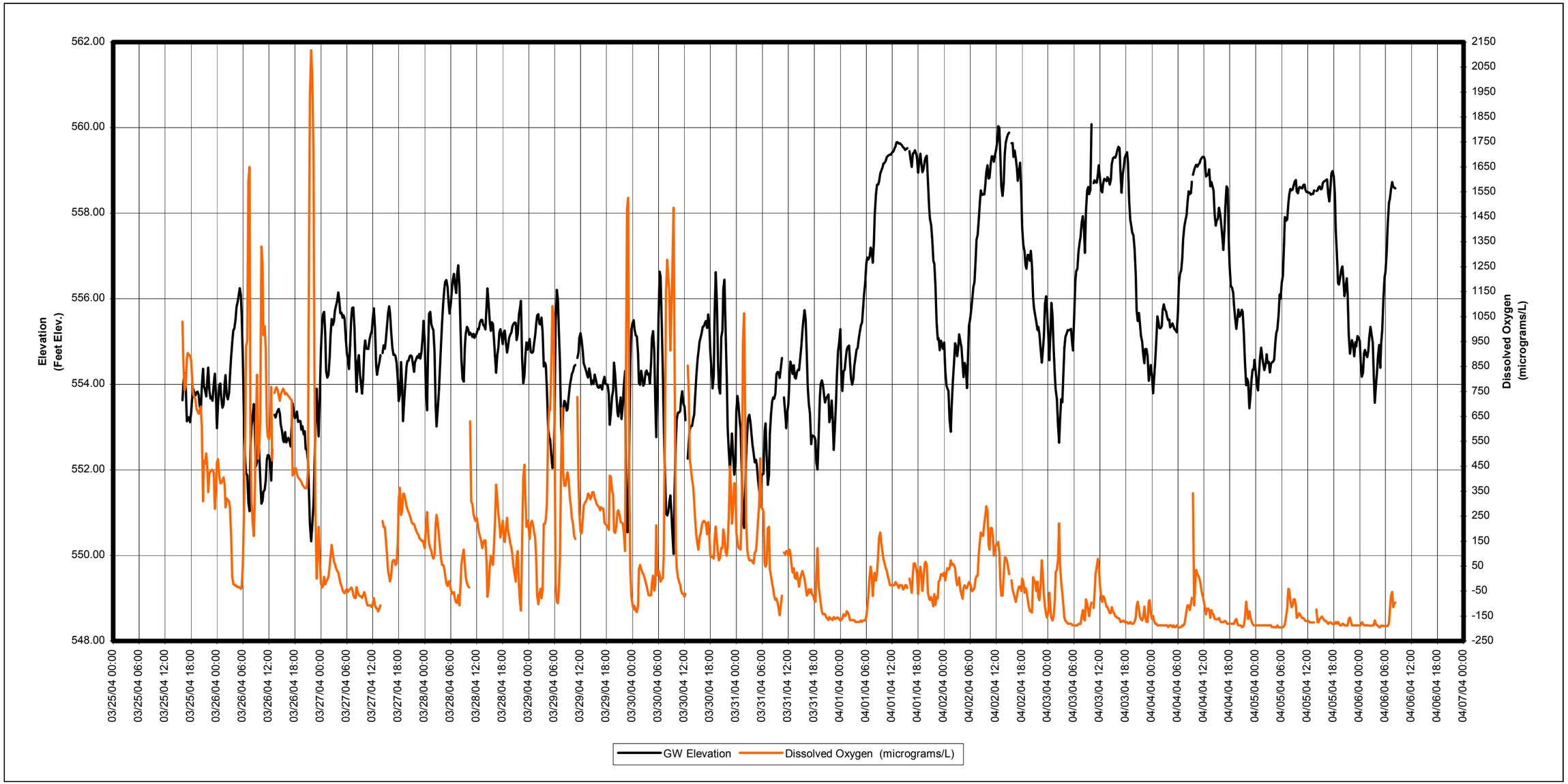

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FIGURE N6-6

GW03-015A-P6, GROUNDWATER ELEVATIONS AND BAROMETRIC PRESSURE

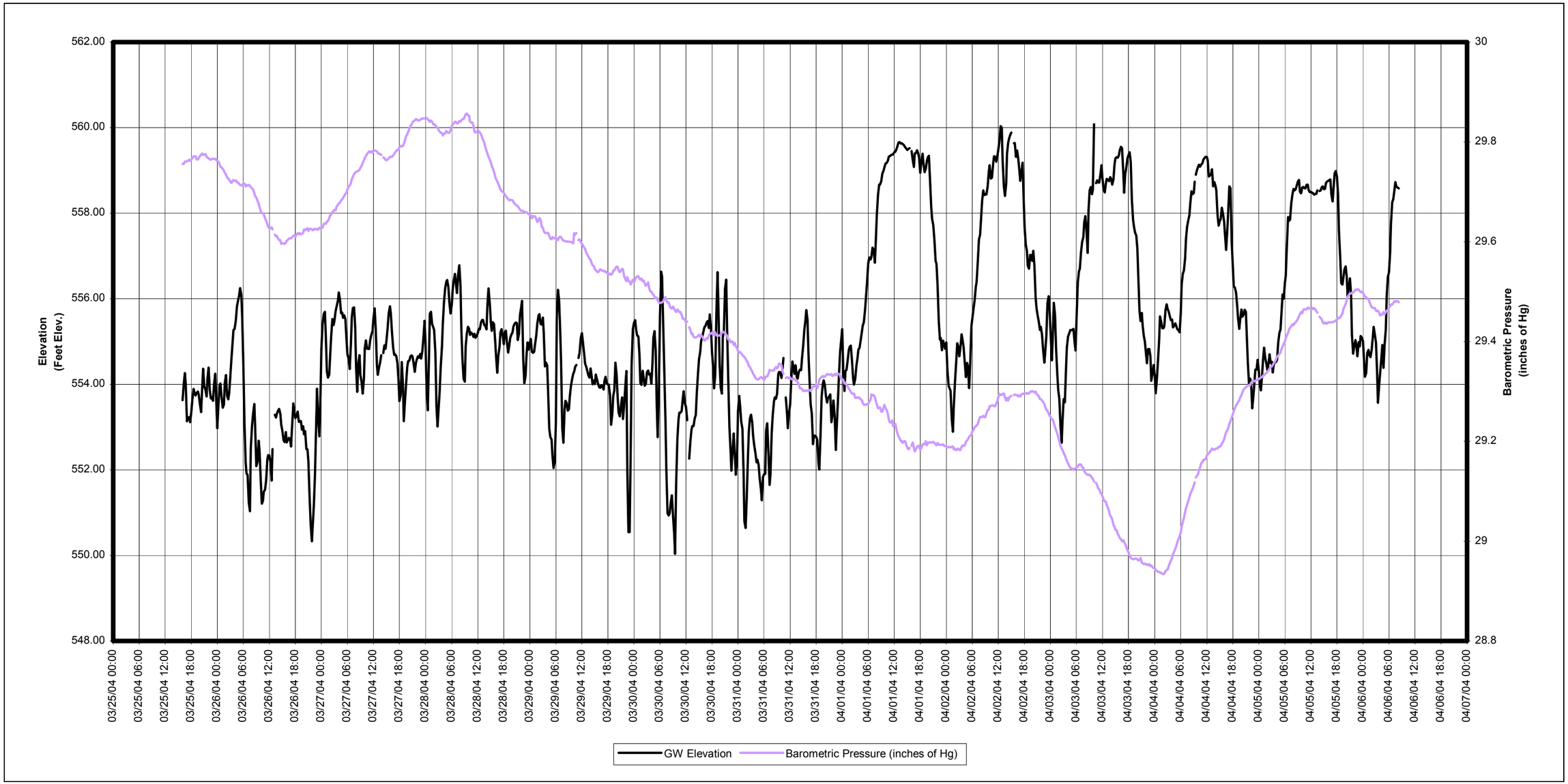

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FIGURE N6-7

GW03-015A-P6, GROUNDWATER ELEVATIONS AND TEMPERATURE

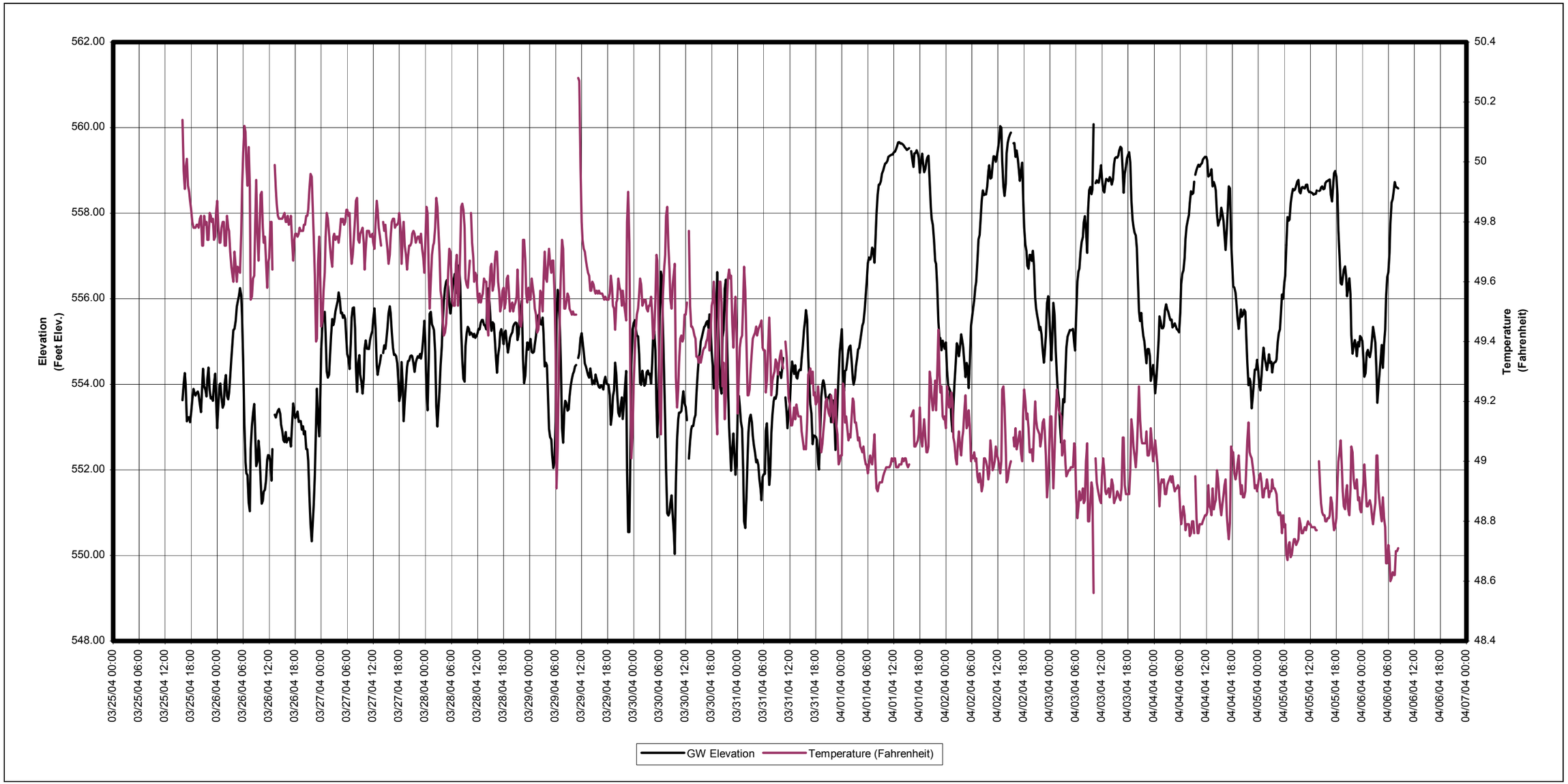

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FIGURE N7-1

GW03-015A-P7, GROUNDWATER ELEVATIONS AND CHLORIDE CONCENTRATIONS

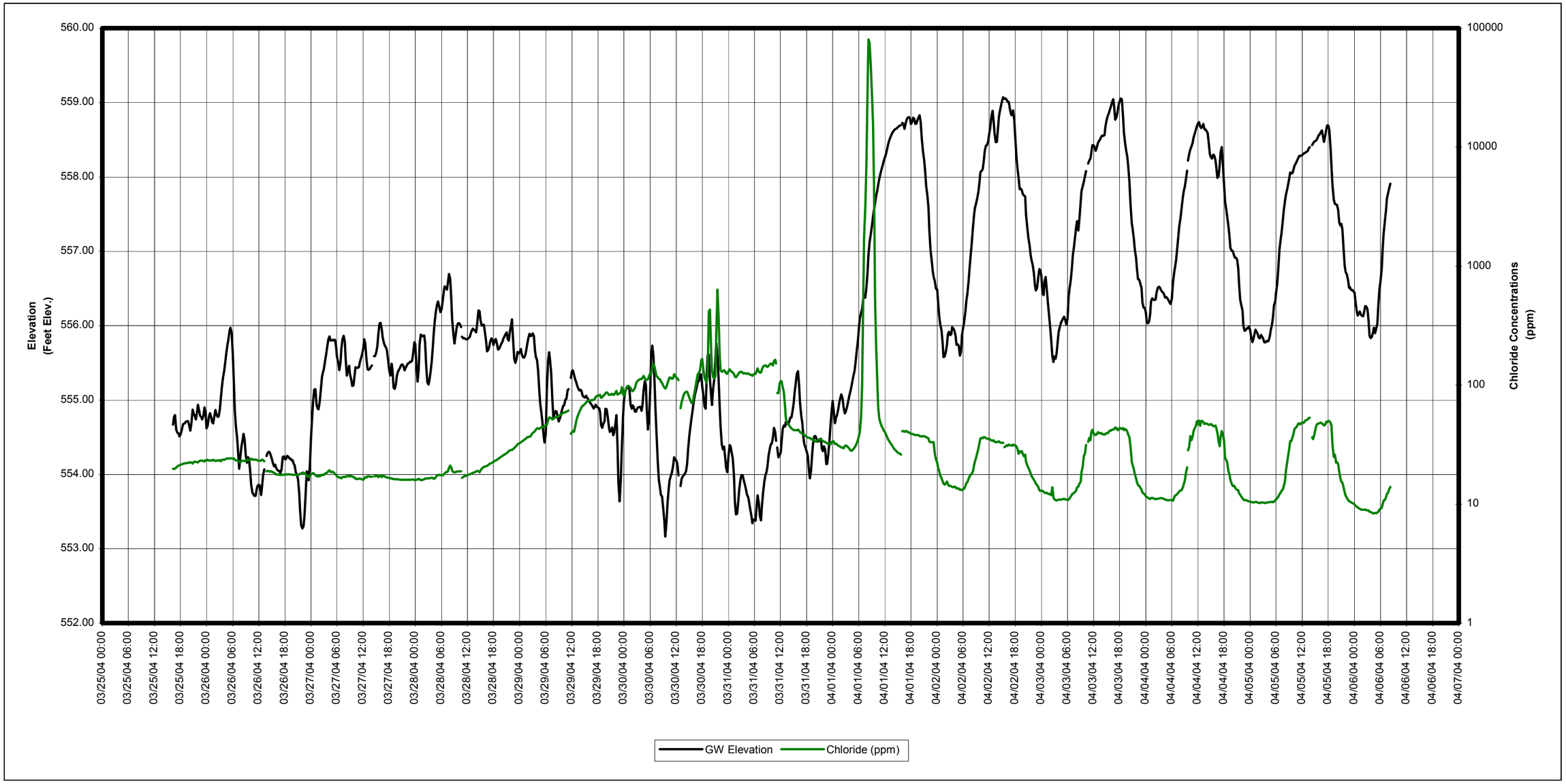

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FIGURE N7-2

GW03-015A-P7, GROUNDWATER ELEVATIONS AND CONDUCTIVITY

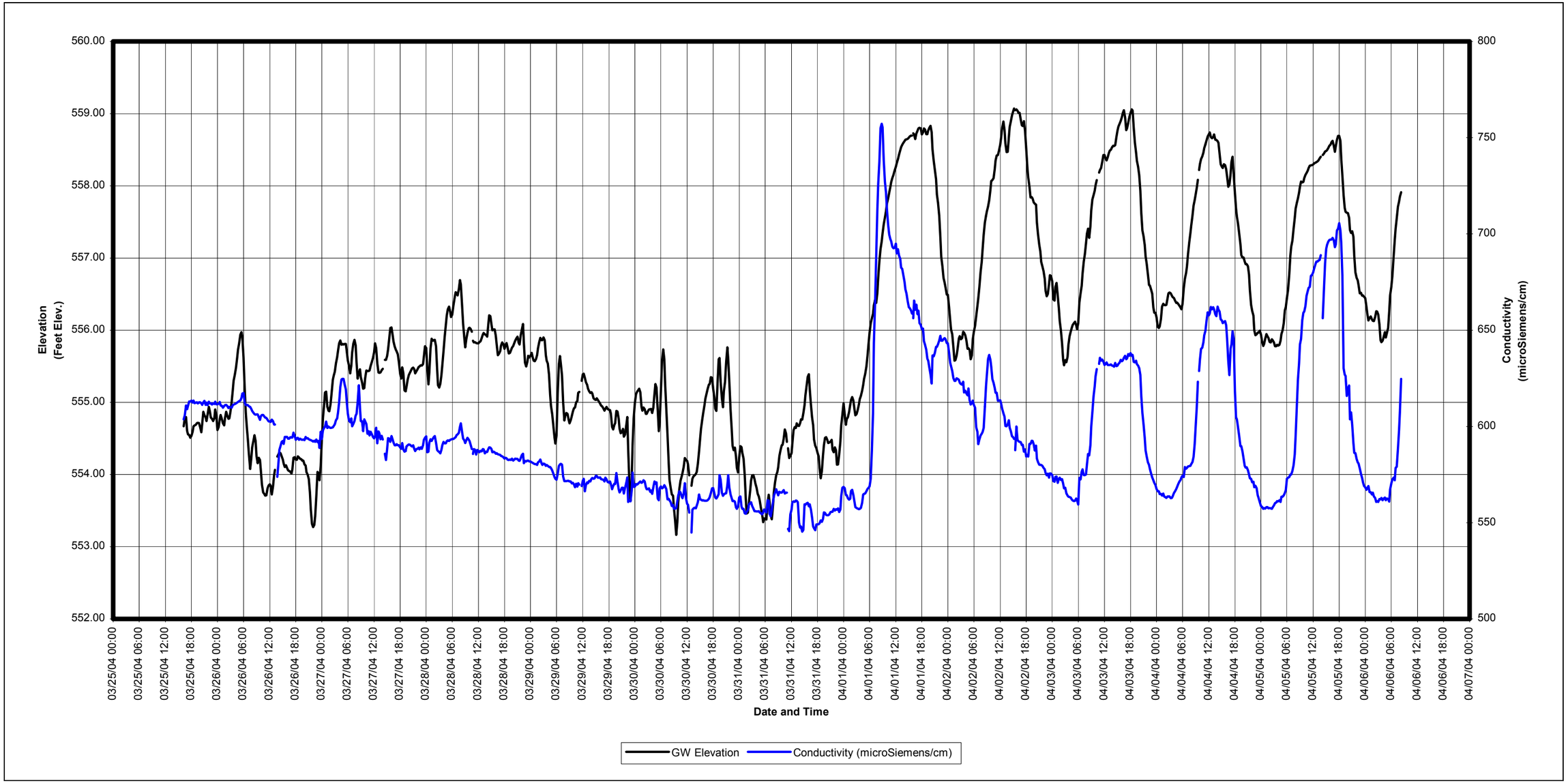

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FIGURE N7-3

GW03-015A-P7, GROUNDWATER ELEVATIONS AND pH

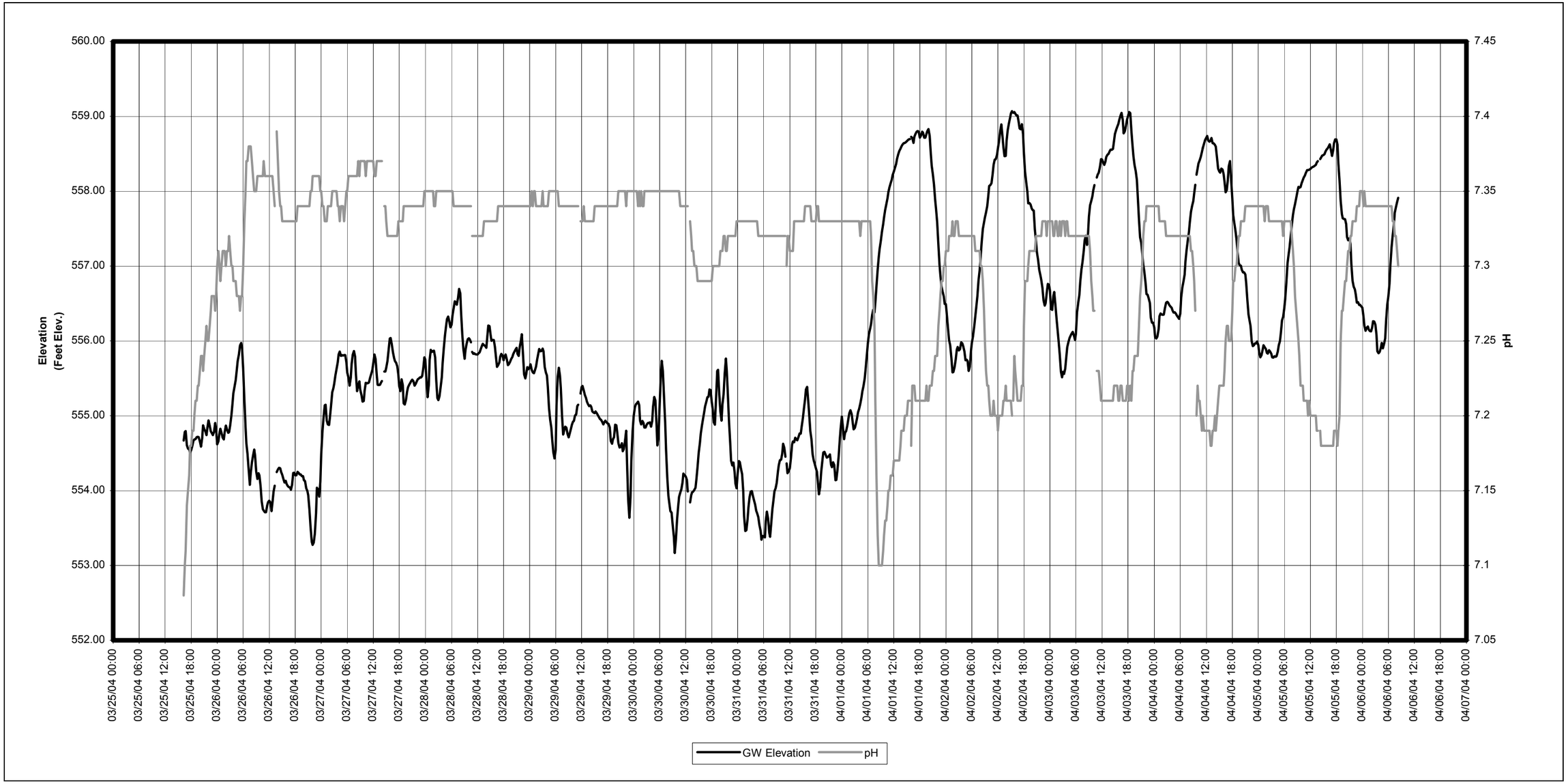

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FIGURE N7-4

GW03-015A-P7, GROUNDWATER ELEVATIONS AND OXIDATION-REDUCTION POTENTIAL

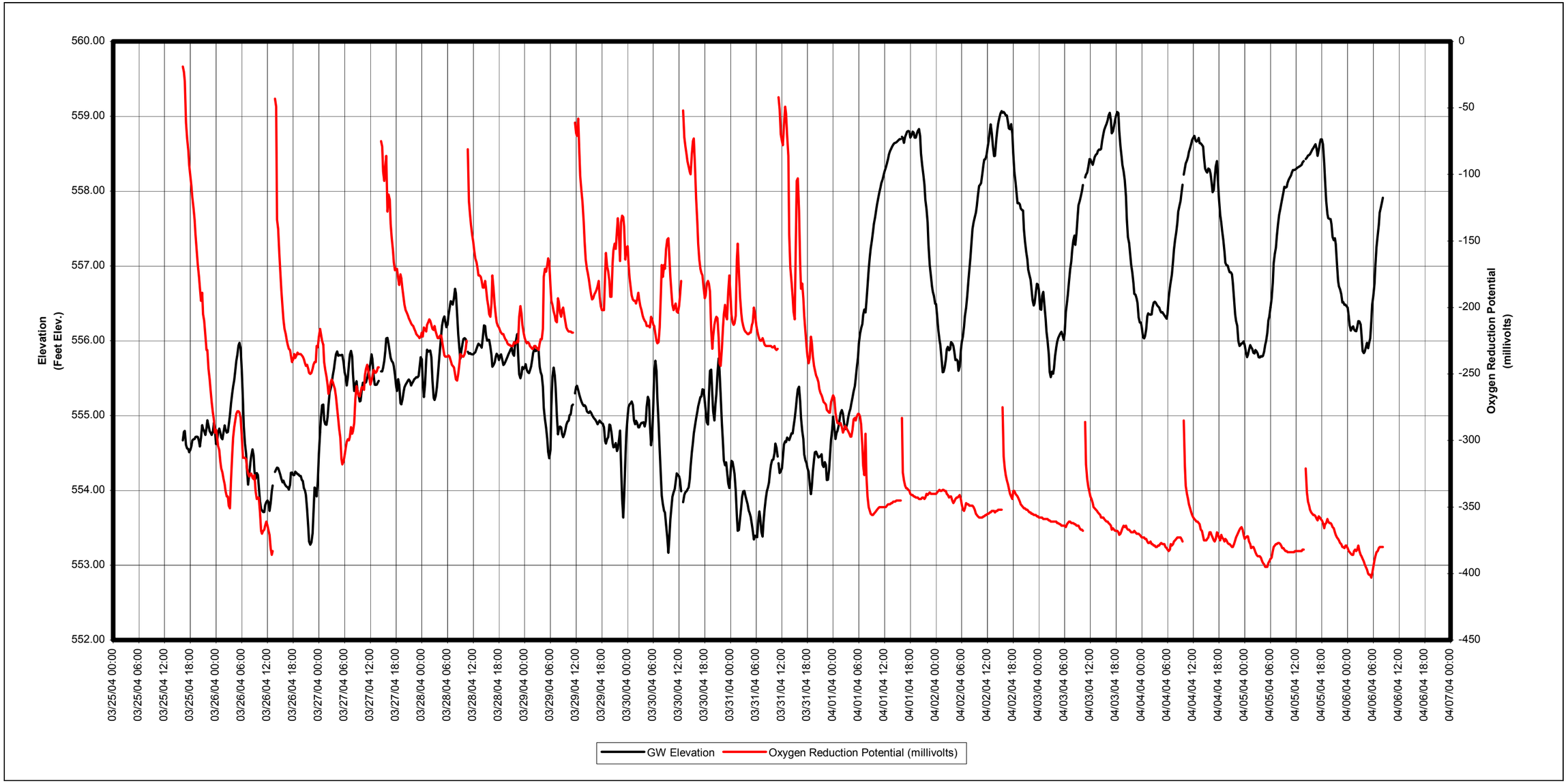

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FIGURE N7-5

GW03-015A-P7, GROUNDWATER ELEVATIONS AND DISSOLVED OXYGEN

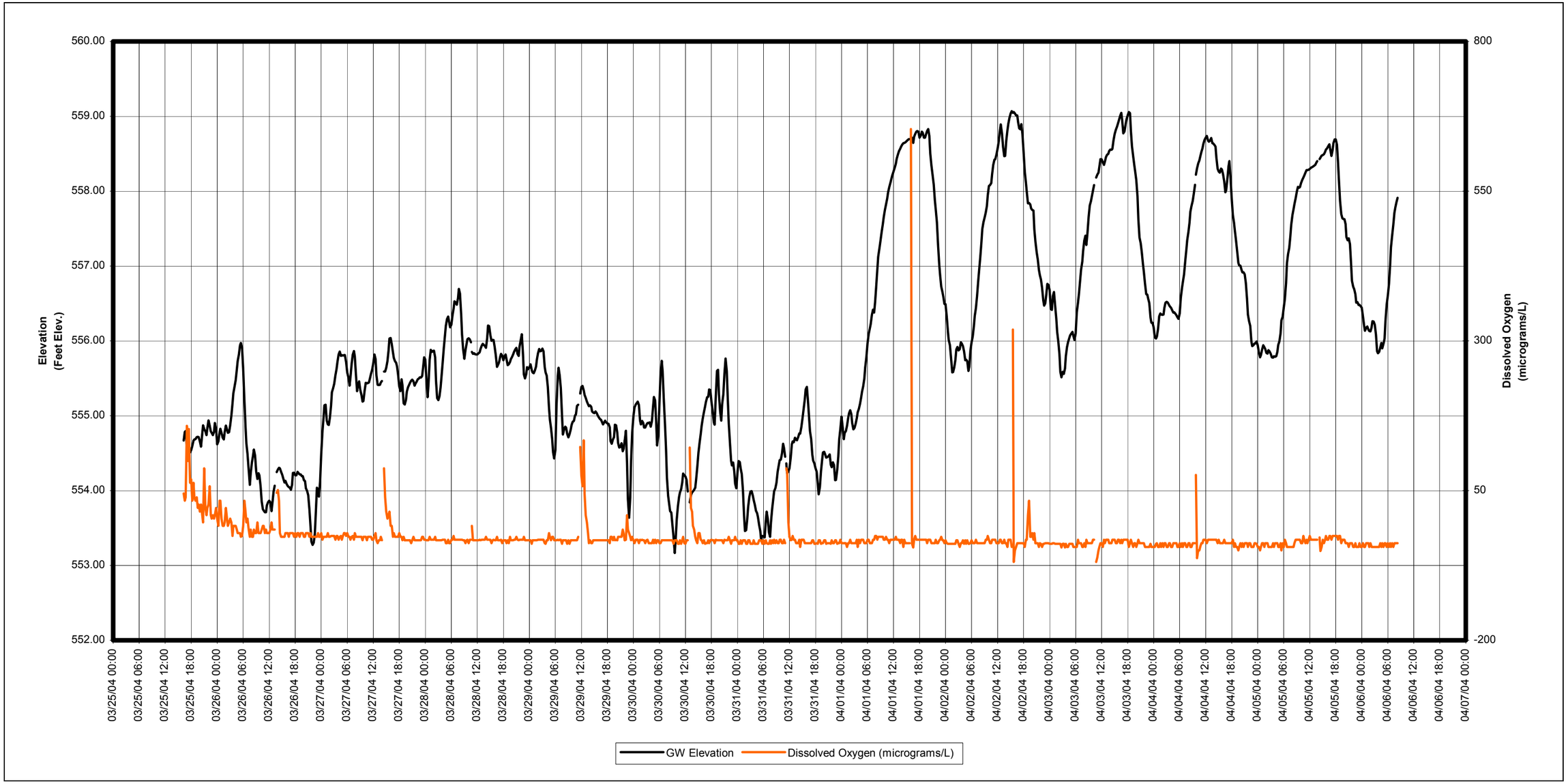

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FIGURE N7-6

GW03-015A-P7, GROUNDWATER ELEVATIONS AND BAROMETRIC PRESSURE

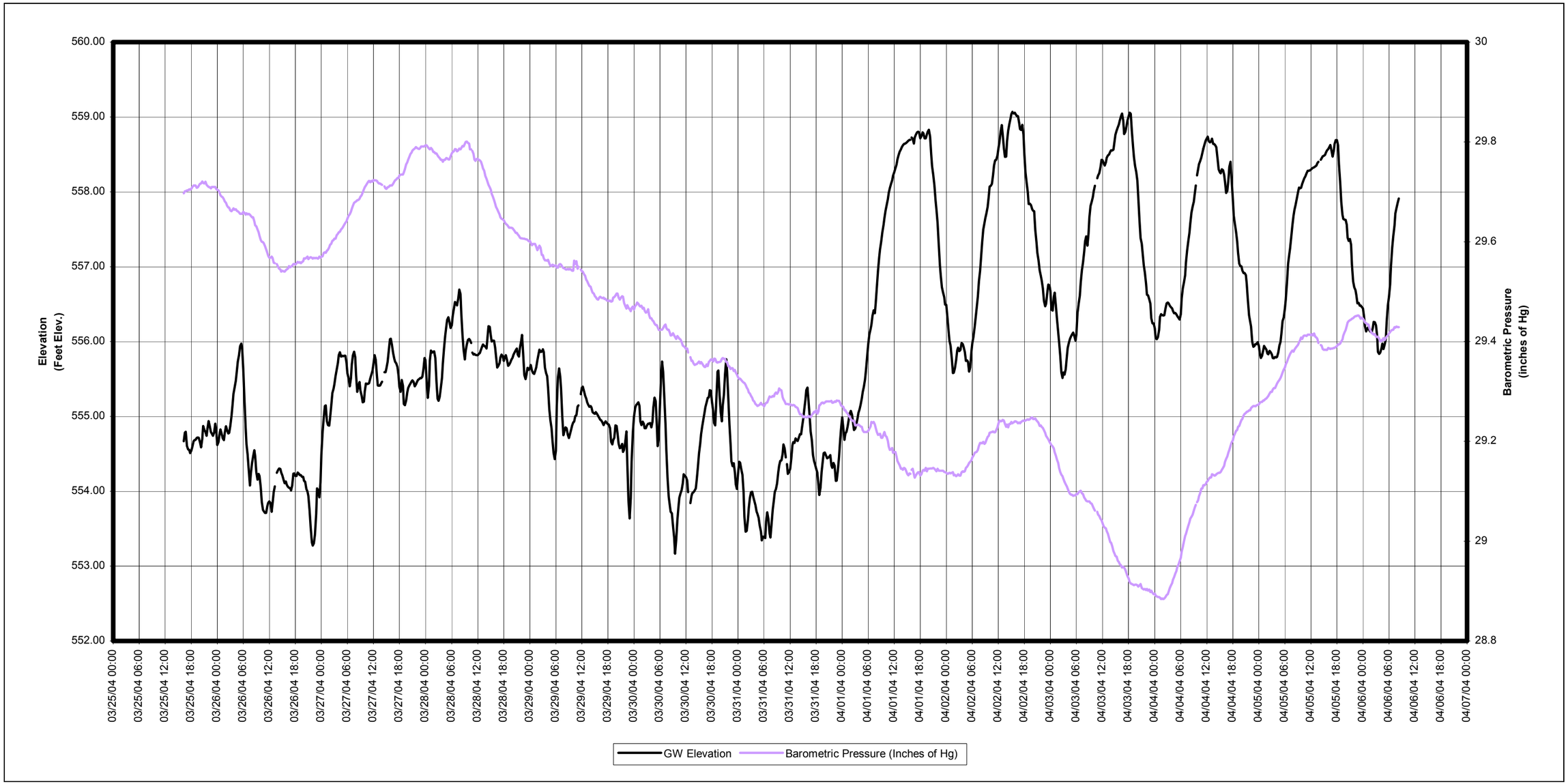

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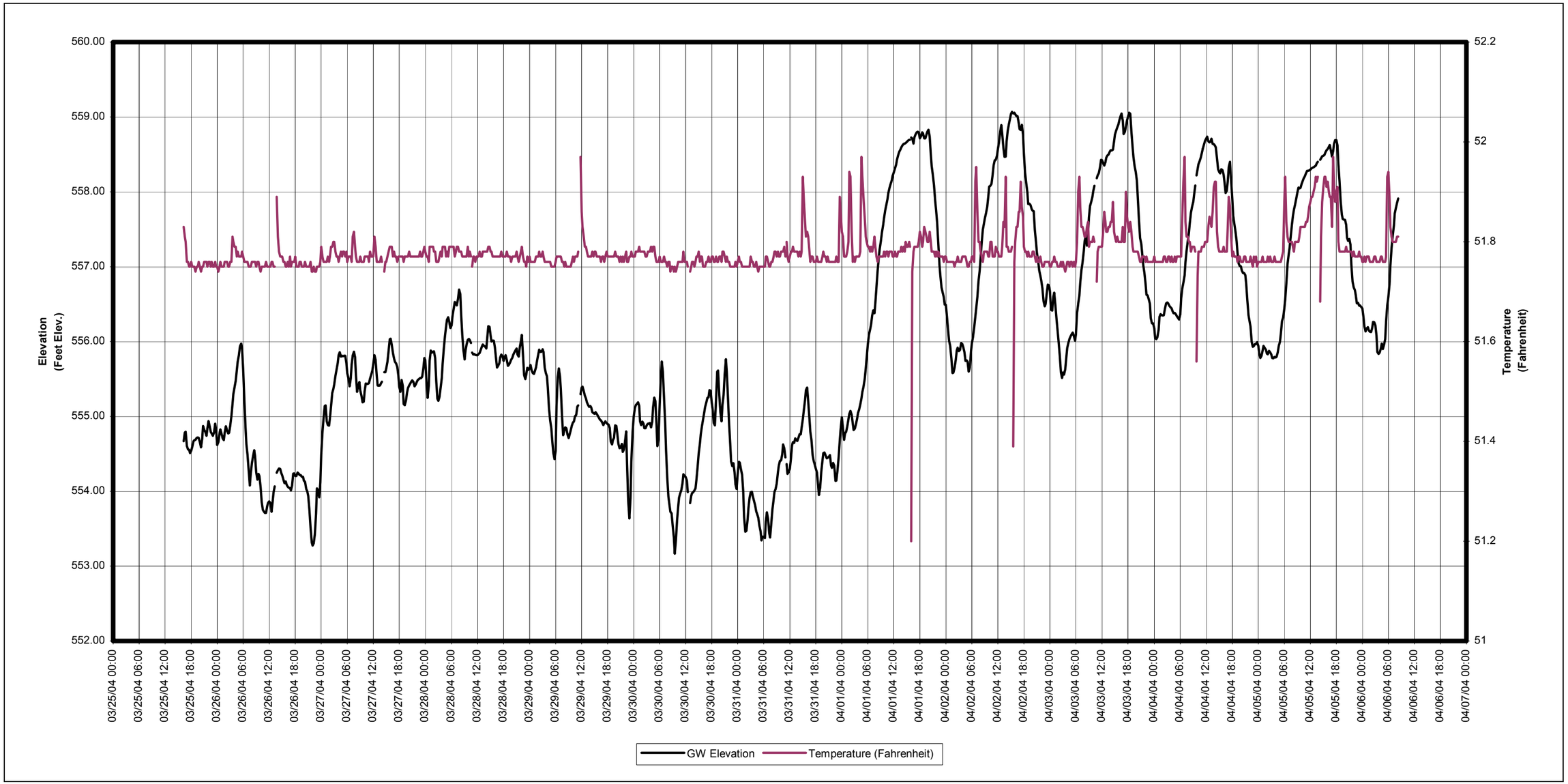
FIGURE N7-7

GW03-015A-P7, GROUNDWATER ELEVATIONS AND TEMPERATURE



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APPENDIX O

ANALYSIS OF HYDRAULIC GRADIENTS IN CONDUIT DRAINAGE SYSTEM

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NIAGARA POWER PROJECT (FERC NO. 2216)
DETERMINE TO WHAT EXTENT PROJECT OPERATIONS AFFECT THE TRANSPORT OF GROUNDWATER AND CONTAMINANTS

CALCULATION COVER SHEET

Client: NYPA Project Name: Relicensing Services

Project/Calculation Number: 11171932.00006

Title: Analysis of Gradients in Conduit Drainage System

Total Number of Pages (including cover sheet): 22 (21 + cover)

Total Number of Computer Runs: 0

Prepared by: Craig Taylor Date: 19 Jan 04

Checked by: Duane Lenhardt Date: 4 Feb 04

Description and Purpose:
To determine flow directions and gradients within the Conduit Drainage System of the New York Power Authority - Niagara Power Project Conduits

Design Basis/References/Assumptions
See test.

Remarks/Conclusions/Results:
See Table 4.

Calculation Approved by: Colin Wasteneys (*signature*) 2/5/04
Project Manager/Date

Revision No.:	Description of Revision:	Approved by:

Project Manager/Date

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URS CORPORATION

JOB NO. 11171932.00006
MADE BY: CTT DATE: 2/5/04
CHKD. BY: DL DATE: 2/4/04

PROJECT: NYPA – 2003 Groundwater Study

SUBJECT: Analysis of Gradients in Conduit Drainage System

1. PURPOSE

The purpose of this report is to present the results of an analysis of surface water and groundwater head data nearby the New York Power Authority (NYPA) Niagara Power Project (NPP) conduits and to infer gradients and flow direction(s) within the Conduit Drainage System (CDS). The location of the NPP (with associated conduits) is shown on Figure 1.

2. SITE CONDITIONS

The NPP consists of six elements: (1) two Niagara River intake structures, (2) two underground conduits and associated pump stations, (3) a forebay, (4) the Lewiston Reservoir and Lewiston Pump Generating Plant, (5) the Robert Moses Niagara Power Plant, and (6) the Niagara switchyard (Figure 1).

Flow from the Niagara River is diverted from the Chippewa Grass-Island Pool by the intake structures and conveyed through the conduits to the forebay for the purposes of generating hydroelectric power. The average flow rate in the Niagara River is approximately 212,300 cubic feet per second (cfs) above all hydroelectric intakes of which only a portion is allocated, by international treaty, for diversion to generating power. Based on the treaty flow diversion restrictions two "seasons" are identified; "tourist season" extending between April 1st and October 31st and "non-tourist season" extending between November 1st and March 31st of each year. The volume of water allocated for the generation of power is dependant on maintaining a minimum flow over Niagara Falls during two time periods, tourist hours (8:00 a.m. to 10:00 p.m. from April 1 through September 15 and from 8:00 a.m. to 8:00 p.m. from September 16 to October 31) and non-tourist hours. During tourist hours flow over Niagara Falls must be at least 100,000 cfs and during non-tourist hours flow must be at least 50,000 cfs. The NPP average diversion is 70,000 cfs.

The two underground conduits run generally northward from the intakes under the City of Niagara Falls and Towns of Niagara and Lewiston to the southeast corner of the forebay, a distance of approximately 4.3 miles (22,704 feet). Each subterranean conduit is a reinforced-concrete structure with a flow area 46 feet wide by 66.5 feet height. The conduits have no diversion or control mechanisms, flow through them being determined strictly by the difference in elevation between the river surface and forebay. Pump stations, designed to remove collected groundwater from sump pits, are located near the conduits' head (in the vicinity of GW03-016) and just upstream of the forebay (in the vicinity of GW03-012). The sump pits are connected to the CDS (of both conduits), which are composed of interconnected vertical, lateral and horizontal pipes that are constructed within the concrete walls for the conduits and are open to conduit floor and sidewall bedrock. The purpose of

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the CDS is to relieve hydrostatic head pressure on the conduit floor and walls, from local groundwater, in the event the conduits are dewatered. Consequently, the head in the sump pits is equal to the head in the CDS at the pump stations. The CDS is continuous along the entire length of the conduits but are not directly connected to either the river or forebay.

3. METHODOLOGY

3.1 Data Collection

To estimate CDS flow and gradients, data was collected from two surface water staff gauges (GN-Intakes and GN-Forebay) and six groundwater monitoring locations (GW03-012 through GW03-017) using both manual and electronic (datalogger) methods (Figure 2). The groundwater monitoring locations were completed with up to 3 well clusters each containing up to 3 nested piezometers, thereby monitoring up to 9 different regional water bearing flow zones at each location. The groundwater zones monitored correspond to hydrogeologic units previously defined in a regional 3-dimensional numeric model (Table 1 and Figure 3) presented in USGS Water-Supply Paper 2487 (Yager 1996). At each monitoring location, the wells were installed in close proximity to the conduits, east of the east conduit wall of Conduit No. 1.

Between August 22, and December 8, 2003, manual water level data were periodically collected from the piezometers using an electronic water level probe (Table 2). Dataloggers were used to measure and record continuous water level data on a 15-minute interval based on the datalogger rotation schedule presented in Table 3. NYPA staff gauges recorded data for the intakes and forebay using 1-hour intervals.

Monitoring well construction diagrams are presented in Appendix __of the main document. Monitoring locations for this analysis are presented in Figure 2.

3.2 Data Comparisons

Plots of data collected from the Pump Station A (GW03-PSA-D) and Pump Station B (GW03-PSB-D) drainage system sumps were compared with their closest well clusters, GW03-016 and GW03-012, respectively.

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Well cluster GW03-016 is located in the immediate vicinity of the CDS, at the horizontal distance of approximately 40 feet. It contains several piezometers screened at different elevations. Hydraulic heads in all piezometers were compared with the hydraulic heads recorded in the central pump station. Very close correspondence with respect to both the values of hydraulic heads (difference on the order of 0.1 ft) and the temporal fluctuation pattern (essentially no lag time) was identified at piezometers GW03-016B-P6 and –016C-P8. These two piezometers are screened in permeable water-bearing zones of the Lockport aquifer at approximately the same elevation as the floor drain of the CDS. At piezometers screened at elevations differing from the elevation of the CDS, the correspondence with heads in CDS was less exact. It appears that the hydraulic head in the CDS near Pump Station A closely corresponds to the hydraulic head in the aquifer as represented by piezometer GW03-016B-P6 (Figure 4).

The same method of analysis was applied to the data obtained in the vicinity of Pump Station B. However, at Pump Station B, the bottom of the conduits dip below the bottom of the Lockport aquifer. Therefore, the base of the CDS is located in the underlying DeCew formation. This stratum is relatively impermeable. As a result, time scale and amplitude of the response in piezometers screened in The DeCew are very different than the time scale and amplitude of changes of the hydraulic head in the CDS. Because of that, the lowest piezometer screened in Lockport was elected for comparison - GW03-012A-P2 (Figure 5).

At the south pump station, there is a very good correspondence between the hydraulic head in CDS and the potentiometric head in the aquifer (GW03-PSA-D and GW03-016B-P6) with respect to both the head values and the fluctuation pattern. At the north pump station (GW03-PSB-D and GW03-012A-P2), the fluctuation patterns show a close correspondence; however, the values of heads are farther apart.

The difference between the two locations is likely driven by the distance (both vertical and horizontal) between the well clusters and the CDS pipes. Well cluster GW03-012 is located approximately 300 feet from the CDS. Only approximately 40 feet separate the CDS from cluster GW03-016. The larger distance at GW03-012 causes a more significant degree of dampening, expressed as a difference in the amplitude of the fluctuations and a slight phase shift, both of which are essentially non-existent at GW03-016.

Other well clusters (GW03-013, -014, -015 and –017) are constructed in essentially the same way as GW03-016. They are located within approximately 40-50 feet from the CDS (except for GW03-015, approximately 100 feet from the CDS), and they all contain a piezometer screened at the same depth

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as CDS floor drain within a permeable zone of the Lockport aquifer. Therefore, it was assumed that the remaining piezometers behave like GW03-016, closely following the head in the CDS.

The head distribution within the CDS can be approximated by analyzing heads in selected piezometers located along the CDS alignment. This approximation is likely to be relatively accurate at well clusters PW03-013 through –017, located very close to the CDS and containing piezometers screened in permeable zones near the CDS. At GW03-012, the approximation is less accurate as noted above

4. DATA ANALYSIS

At each location, data from the piezometer screened nearest the conduit base (e.g. the conduit invert) were used (Table 4), except for location GW03-012. At GW03-012 the P3 piezometer is closer to the base of the conduit then the P2 piezometer but it did not provide usable elevation data (the formation was unresponsive and the piezometers was still recovering from development), therefore data from the next closest piezometer (GW03-012A-P2) were used. Data analysis of potentiometric head differences was completed for each segment between locations (e.g. between GW03-016 and GW03-015). For each segment, elevation data (manual and datalogger) was plotted against time (Figures 6 through 12).

For each pair of piezometers potentiometric differentials were calculated for all corresponding manual water levels (as a convention, positive values for all differentials indicate flow to the north and negative values indicate flow to the south). Distance between locations, minimum, maximum and average differentials, average hydraulic gradients and directional flow trends for both tourist and non-tourist seasons are provided on Table 5. Manual water levels from the Forebay and Intakes gauges corresponding with manual water levels from GW03-012A-P2 and GW03-017B-P5, respectively, were not available; therefore Forebay and Intakes surface water elevations were interpolated from staff gauge elevations recorded immediately before and after respective GW03-012A-P2 and GW03-017B-P5 manual level data.

5. SUMMARY

This analysis was initiated to assess flow direction and gradients within the CDS for both tourist and non-tourist seasons. Surface water elevations and groundwater potentiometric elevations were analyzed and the following observations were made:

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URS CORPORATION

JOB NO. 11171932.00006
MADE BY: CTT DATE: 2/5/04
CHKD. BY: DL DATE: 2/4/04

PROJECT: NYPA – 2003 Groundwater Study

SUBJECT: Analysis of Gradients in Conduit Drainage System

1) As presented in Table 5 and Figures 6 and 7, flow direction within the CDS pipes north of GW03-013 is variable. Flow both to the north and to the south can be observed during both operating modes (tourist and non-tourist seasons). The net direction of flow appears to be to the north between GW03-012 and Forebay. Average head differences are very low between GW03-013 and GW03-012, and the predominant flow direction in this segment is difficult to determine.

2) During the tourist season, flow between GW03-016 and GW03-013 is predominantly to the north, although short reversals (flow to the south) do occur. The flow is always to the north during the non-tourist season.

3) Flow between the intakes and GW03-016 is always to the north during both tourist and non-tourist seasons.

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TABLE 1
BEDROCK STRATIGRAPHY OF THE NIAGARA FALLS AREA (Yager 1996)

System	Series	Group	Formation	Average Thickness (feet)	Description
Silurian	Cayuga	Salina	Vernon Shale	57 (in study area)	Green and red shale
	Niagaran	Lockport	Guelph Dolomite	33	Brownish-gray to dark gray, fine to medium, thick-bedded dolomite, with some argillaceous dolomicrite, particularly near contact with the Vernon Shale
			Eramosa Dolomite	52	Brownish-gray, biostromal, bituminous, medium- to massive-bedded dolomite, with some argillaceous dolomicrite
			Goat Island Dolomite	41	Light olive-gray to brownish gray, fine to medium crystalline, thick- to massive-bedded saccharoidal, cherty dolomite, with argillaceous dolomicrite near top of formation
			Gasport Limestone	33	Basal unit is dolomitic, crinoidal grainstone, overlain by argillaceous limestone
		Clinton	DeCew Dolomite	10	Very fine crystalline dolomite, medium to dark gray, thin to medium bedded
			Rochester Shale	60	Dark-gray calcareous shale weathering to light gray to olive
			Irondequoit Limestone	12	Light-gray to pinkish-white coarse-grained limestone
			Reynales Limestone	10	White to yellowish-gray shaly limestone and dolomite
			Neahga Shale	5	Greenish-gray soft fissile shale
		Medina[1]	Thorold Sandstone	8	Greenish-gray shaly sandstone
			Grimsby Sandstone	45	Reddish-brown to greenish-gray cross-bedded sandstone interbedded with red to greenish-gray shale
			Power Glen Shale	40	Gray to greenish-gray shale interbedded with light gray sandstone
			Whirlpool Sandstone	20	White, quartzitic sandstone
Ordovician	Upper	Richmond	Queenston Shale	1,200	Brick-red sandy to argillaceous shale

[1]Designated Albion Group by the U.S. Geological Survey

Modified from Miller and Kappel, 1987, with additional data from Fisher and Brett, 1981; Brett and Calkin, 1987, Brett and others, 1995.

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TABLE 2
MANUAL GROUNDWATER ELEVATION DATA
GW03-012 through GW03-017

Location	Piezo	22-Aug-03	24-Aug-03	29-Aug-03	8-Sep-03	12-Sep-03	15-Sep-03	17-Sep-03	18-Sep-03	22-Sep-03	26-Sep-03	29-Sep-03	6-Oct-03	10-Oct-03	17-Oct-03	20-Oct-03	3-Nov-03	11-Nov-03	17-Nov-03	21-Nov-03	25-Nov-03	1-Dec-03	8-Dec-03
GW03-012	P2	556.44	556.44	556.77	558.92	558.35	558.60		558.69	559.12	559.19	558.30	559.70	559.04	558.51	557.29	553.00		550.47		549.03		
GW03-012	P3	516.03	530.05	540.75	551.09	552.53	553.33		553.14	553.56	552.71	552.80	552.18	500.56	501.00	510.40	547.12		546.58		545.47		
GW03-012	P4		584.03	584.03	584.03	584.04	584.01		584.02	584.03	584.02		584.10	584.09	578.67	584.67	584.67		585.03		585.18		
GW03-012	P5	564.74	564.82	564.85	564.57	564.55	564.62		564.42	564.58	564.35	564.27	564.19	560.48	564.18	564.22	564.43		564.28		564.42		
GW03-012	P6	556.47	556.22	556.63	558.68	558.17	558.41		558.34	559.00	558.95	558.07	559.44	559.46	558.24	556.95	552.48		549.88		548.52		
GW03-012	P7	597.80	597.78	597.79	597.83	597.83	597.80		597.79	597.80	597.80	597.77	598.49	598.43	597.63	597.63	597.63		598.46		598.62		
GW03-013	P1	558.13	557.53	558.36	558.91		559.95		560.35	560.17	560.19	559.43	560.43	561.89	561.62	561.22	559.49		558.56		554.30		
GW03-013	P2	556.60	556.41	556.56	557.66		558.67		559.21	559.36	558.86	558.35	559.26	559.00	558.64	557.61	553.22		549.69		548.94		
GW03-013	P3	556.49	556.33	556.48	557.61		558.55		559.12	559.29	558.76	558.25	559.16	558.95	558.55	557.50	553.12		549.56		548.80		
GW03-013	P4	558.83	558.81	558.77	558.78		559.21		559.65	559.51	559.26	558.93	559.46	559.14	558.97	558.78	558.26		558.22		558.18		
GW03-013	P5	556.53	556.18	556.37	557.33		558.71		559.32	559.26	558.88	558.30	559.20	558.77	558.54	557.57	553.23		549.69		548.65		
GW03-013	P6	551.56	551.62	551.66	551.83		552.10		552.12	552.18	552.22	552.26	552.16	552.27							519.08		
GW03-013	P7	565.58	565.59	565.61	565.58		565.56		565.48	565.48	565.41	565.36	565.34	565.34	565.33	565.35	565.58		565.96		566.02		
GW03-014	P1	515.53	499.69	526.82	540.37		546.72			550.39	551.86	552.79	553.74	554.39	518.40	524.47	542.89	547.90	550.21		552.12		
GW03-014	P2	464.34	464.56	464.72	465.15		465.43			465.65	465.88	466.23	466.25	466.41	464.54	464.69	465.40	465.69	465.99		466.31		
GW03-014	P3	546.99	547.02	546.95	547.00		547.45			547.54	547.41	547.35	547.20	547.12	547.21	547.30	547.31	547.39	546.72		546.74		
GW03-014	P4	557.13	557.54	557.22	557.52		558.52			558.53	558.19	558.24		557.98	557.92	557.95	556.58	556.21	554.84		553.70		
GW03-014	P5	558.08	558.40	557.62	558.59		559.09			560.00	559.38	559.17	559.57	559.65	559.37	558.42	555.32	555.17	552.53		553.37		
GW03-014	P6	558.09	558.40	557.68	558.64		559.15			559.99	559.45	559.23	559.57	559.71	559.39	558.44	555.35	555.22	552.63		553.42		
GW03-014	P7	557.27	557.58	557.20	557.54		558.53			558.48	558.22	558.40	558.17	557.96	557.99	558.03	557.69	554.04	554.76		553.28		
GW03-015	P1	558.62	559.23	558.18	559.36	560.01	559.69		559.92	560.24	560.17	559.63	559.75	560.48	559.96	559.10	556.56	556.74	554.34		555.18		
GW03-015	P2	507.71	533.84	547.98	554.84	555.53	556.57		555.94	556.31	556.01	556.00	555.77	555.64	547.89	551.50	554.86	554.71	553.29		553.45		
GW03-015	P3	435.16	435.41	435.63	436.17	436.38	436.55		436.69	436.88	437.08	437.20	437.68	437.05	435.91	436.09	437.20	437.83	438.31		438.93		
GW03-015	P4	558.49	559.71	559.05	559.63	560.48	560.45		560.26	560.67	560.49	560.09	560.33	560.85	560.37	559.75	557.05	557.31	554.54		555.72		
GW03-015	P5	559.01	559.21	557.85	559.38	557.97	559.77		559.90	560.22	560.23	559.60	559.76	560.46	559.93	558.93	556.51	556.72	554.16		555.13		
GW03-015	P6	558.99	559.19	557.74	559.35	559.92	559.67		559.94	560.18	560.16	559.52	559.78	560.49	559.91	558.82	556.41	556.56	553.96		555.06		
GW03-015	P7	558.21	558.58	557.85	558.46	559.35	559.34		559.42	559.68	559.45	559.17	559.24	559.28	559.04	558.59	556.77	556.68	554.77		554.41		
GW03-016	P1	558.92	559.30	558.82	558.98	559.81				559.86	559.99	559.63	559.68	559.90	558.73	559.36	557.05	557.24	555.16		555.89	554.79	556.58
GW03-016	P2	558.63	558.96	558.55	558.70	559.55		558.98		559.62	559.73	559.38	559.45	559.67	559.50	559.10	556.78	556.94	554.94		555.50	554.48	556.28
GW03-016	P3	536.23	559.18	558.78	558.91	559.67				559.81	559.76		559.42	559.31	558.81	558.65	556.91	556.65	555.21	555.71	554.74	553.70	555.59
GW03-016	P4	558.09	558.39	557.95	558.10	558.88				559.02	559.08	558.78	558.84	558.95	558.79	558.42	556.30	556.47	554.67	554.98	555.18	554.19	555.82
GW03-016	P5	558.36	558.66	558.11	558.31	559.12				559.40	559.43	559.21	559.27	559.19	559.18	558.75	556.58	556.76	555.40	556.39	555.05	554.43	555.86
GW03-016	P6	558.98	559.37	558.86	559.10	559.97				560.02	560.14	559.72	559.76	560.08	559.87	559.49	556.92	557.16	554.87	555.39	555.76	554.55	556.61
GW03-016	P7	557.77	558.07	557.61	557.75	558.49		557.98		558.59	558.66	558.36	558.44	558.54	558.41	558.05	556.02	556.17	554.45		554.94	553.96	555.98
GW03-016	P8	558.94	559.29	558.82	559.05	559.88				559.94	560.05	559.68	559.71	559.96	559.78	559.43	556.99	557.16	555.11	555.57	555.93	554.80	556.61
GW03-017	P1	519.04	559.83	558.63	559.16	560.08				560.63	560.53	560.43	560.43	559.87	560.07	559.63	557.72	558.01	557.16		556.67	555.68	557.28
GW03-017	P2	559.93	560.37	559.75	559.89	560.76				561.23	560.77	560.72	560.61	560.87	561.13	560.27	558.03	558.02	557.01		557.58	556.21	557.85
GW03-017	P3																	421.46	424.48		430.02	433.43	436.19
GW03-017	P4	560.30	560.75	560.07	560.23	561.06				561.25	561.13	561.11	560.95	561.06	560.96	560.48	558.54	558.56	557.51		557.92	556.74	558.24
GW03-017	P5	560.12	560.58	559.90	560.06	560.90				561.08	560.93	560.95	560.78	560.92	560.90	560.32	558.37	558.38	557.31		557.77	556.62	558.11
GW03-017	P6	559.99	560.44	559.84	559.96	560.83				560.95	560.79	560.71	560.61	560.90	560.83	560.27	558.10	558.11	556.94		557.64	556.38	557.99
GW03-017	P7	560.23	560.68	559.95	560.13	560.95				561.17	561.06	561.02	560.87	560.86	560.89	560.38	558.42	558.50	557.50		557.79	556.70	558.15
GW03-017	P8	560.32	560.75	559.99	560.21	561.05				561.28	561.12	561.14	560.98	560.98	560.92	560.49	558.60	558.67	557.64		557.92	556.82	558.30
GW03-017	P9	532.33	559.07	558.99	559.35	559.54				559.66	559.28	559.97	558.63	558.87	564.07	559.24		558.52	557.91		557.34	556.15	557.15
OW-650D	NA					558.599				558.699	558.699		558.42	558.59	558.08	557.76	554.07	556.30	555.19		555.57		555.87
OW-139	NA					558.5				558.62	558.72		558.45	558.59	558.44	558.03	555.90	556.08	554.32		554.89		555.53

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TABLE 3
PIEZOMETER DATALOGGER ROTATION SCHEDULE

Location	Piezometer	8/14/03	08/18/03	08/25/03	09/01/03	09/08/03	09/15/03	09/22/03	09/29/03	10/06/03	10/13/03	10/20/03	10/27/03	11/03/03	11/10/03	11/17/03	11/24/03	12/01/03	12/08/03	12/15/03	12/22/03	12\29/03
GW03-001	P1	X	X	X													X	X	X	X	X	X
	P2	X	X	X																		
GW03-002	P1	X	X	X													X	X	X	X	X	X
	P2	X	X	X																		
GW03-003	P1	X	X	X													X	X	X	X	X	X
	P2	X	X	X																		
GW03-004	P1	X	X	X													X	X	X	X	X	X
	P2	X	X	X																		
GW03-005	P1		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P2		X	X																		
GW03-006	P1		X	X																		
	P2		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3		X	X																		
	P4		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P5		X	X																		
GW03-007	P1		X	X																		
	P2		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3		X	X																		
	P4		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P5		X	X																		
GW03-008	P1		X	X																		
	P2		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3		X	X																		
	P4		X	X					X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P5		X	X																		
	P6		X	X																		
GW03-009	P1				X	X																
	P2				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3				X	X																
	P4				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P5				X	X																
	P6				X	X																
GW03-010	P1				X	X																
	P2				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3				X	X																
	P4				X	X																
	P5				X	X																
	P6				X	X																
	P7				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
GW03-011	P1				X	X																
	P2				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3				X	X																
	P4				X	X																
	P5				X	X																
	P7				X	X																
	P8				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
GW03-012	P1																					
	P2				X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3																					
	P4				X	X																
	P5				X	X																
	P6				X	X																
	P7				X	X																

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TABLE 3 (CONT.)
PIEZOMETER DATALOGGER ROTATION SCHEDULE

GW03-013	P1						X	X														
	P2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3						X	X														
	P4						X	X														
	P5						X	X														
	P6						X	X														
	P7						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GW03-014	P1						X	X														
	P2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3						X	X														
	P4						X	X														
	P5						X	X														
	P6						X	X														
	P7						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GW03-015	P1						X	X														
	P2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3						X	X														
	P4						X	X														
	P5						X	X														
	P6						X	X														
	P7						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GW03-016	P1																X	X				
	P2						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P3																X	X				
	P4																X	X				
	P5																X	X				
	P6																X	X				
	P7						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	P8																X	X				
GW03-017	P1																X	X				
	P2																X	X				
	P3																X	X				
	P4																X	X				
	P5																X	X				
	P6																X	X				
	P7																X	X				
	P8																X	X				
	P9																X	X				
OW-650D	NA				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
OW-139	NA				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GW03-018	P1						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
GW03-018	P2								X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pump Station B	Inside		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pump Station B	Outside E		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pump Station A	Inside	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Pump Station A	Outside E	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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TABLE 4

CONDUIT INVERT AND PIEZOMETER SAND PACK ELEVATIONS

Piezometer	Elevation of Conduit Invert	Piezometer Sand Pack Interval (Elevation)	
		Top	Bottom
Forbay	477.0	NA	NA
GW03-012A-P2	477.3	524.7[1]	510.7[1]
GW03-013A-P2	479.8	480.5	466.5
GW03-014B-P6	484.4	496.1	482.1
GW03-015B-P6	487.5	489.9	477.4
GW03-016B-P6	460.0[2]	479.5	465.5
GW03-017B-P5	487.8	493.1	484.1
Niagara River	488.0	NA	NA

Note:

1) At GW03-012 piezometer P3 is screened at elevation of CDS base but did not exhibit response to forebay, therefore piezometer P2 (the next closest piezometer) was used.
2) Elevation reflects submergence of conduits beneath Falls Street Tunnel

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TABLE 5
AVERAGE ELEVATION DIFFERENCES, AVERAGE HYDRAULIC GRADIENTS AND DIRECTION OF FLOW

		Tourist Season				Non-Tourist Season			
		Minimum Average and Maximum Difference in Elevation		Average Hydraulic Gradient	Direction of Flow	Minimum Average and Maximum Difference in Elevation		Average Hydraulic Gradient	Direction of Flow
		Datalogger Data	Manual Water Level Data			Datalogger Data	Manual Water Level Data		
Location	**Distance (feet)**								
Forebay[1]	775	-8.74	-0.45	1.31E-03	Both N & S	-7.23	-3.95	1.32E-03	N > S[5]
		1.01	0.82			1.03	-0.76		
GW03-012A-P2[2]		11.23	3.42			11.98	1.46		
GW03-012A-P2	4780	-8.65	-1.26	6.49E-05	Both N &S	-13.92	-0.78	-2.25E-05	Both N & S
		0.31	-0.06			-0.11	-0.21		
GW03-013A-P2[2]		9.75	0.52			7.69	0.22		
GW03-013A-P2	5925	-1.41	0.31	2.25E-04	N >> S[4]	NA	2.13	5.37E-04	Always To N
		1.33	0.90				3.18		
GW03-014B-P6		3.22	1.99				4.48		
GW03-014B-P6	2975	-1.27	0.06	2.49E-04	N > S[5]	NA	1.06	4.51E-04	Always To N
		0.74	0.50				1.34		
GW03-015B-P6		2.05	0.90				1.64		
GW03-015B-P6	3750	NA	-0.41	3.04E-05	Both N &S	NA	0.51	1.81E-04	Always To N
			0.11				0.68		
GW03-016B-P6			1.12				0.91		
GW03-016B-P6	2665	NA	0.79	3.78E-04	Always To N	0.62	1.22	5.80E-04	Always To N
			1.01			1.55	1.74		
GW03-017B-P5			1.23			2.57	2.44		
GW03-017B-P5	1400	NA	2.58	2.02E-03	Always To N	2.92	4.5	2.09E-03	Always To N
			2.82			5.40	4.96		
Intakes[1]			3.23			8.48	5.59		

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TABLE 5 (CONT.)
AVERAGE ELEVATION DIFFERENCES, AVERAGE HYDRAULIC GRADIENTS AND DIRECTION OF FLOW

Notes:

1) Data for both Forebay and Intakes are interpolated from staff gauge data and correlated with date and time of manual water levels collected from GW03-012A-P2 and GW03-017B-P5, respectively.

2) Piezometer is not screened across elevation of bottom of CDS and may not reflect the head in CDS at that location.

3) Gradient between piezometer and intakes is estimated, actual gradient may be lower due to head loss between CDS and river.

4) Flow is predominantly to the North with few reversals to the South.

5) Flow is mostly to the North with some reversals to the South.

NA = Data not available

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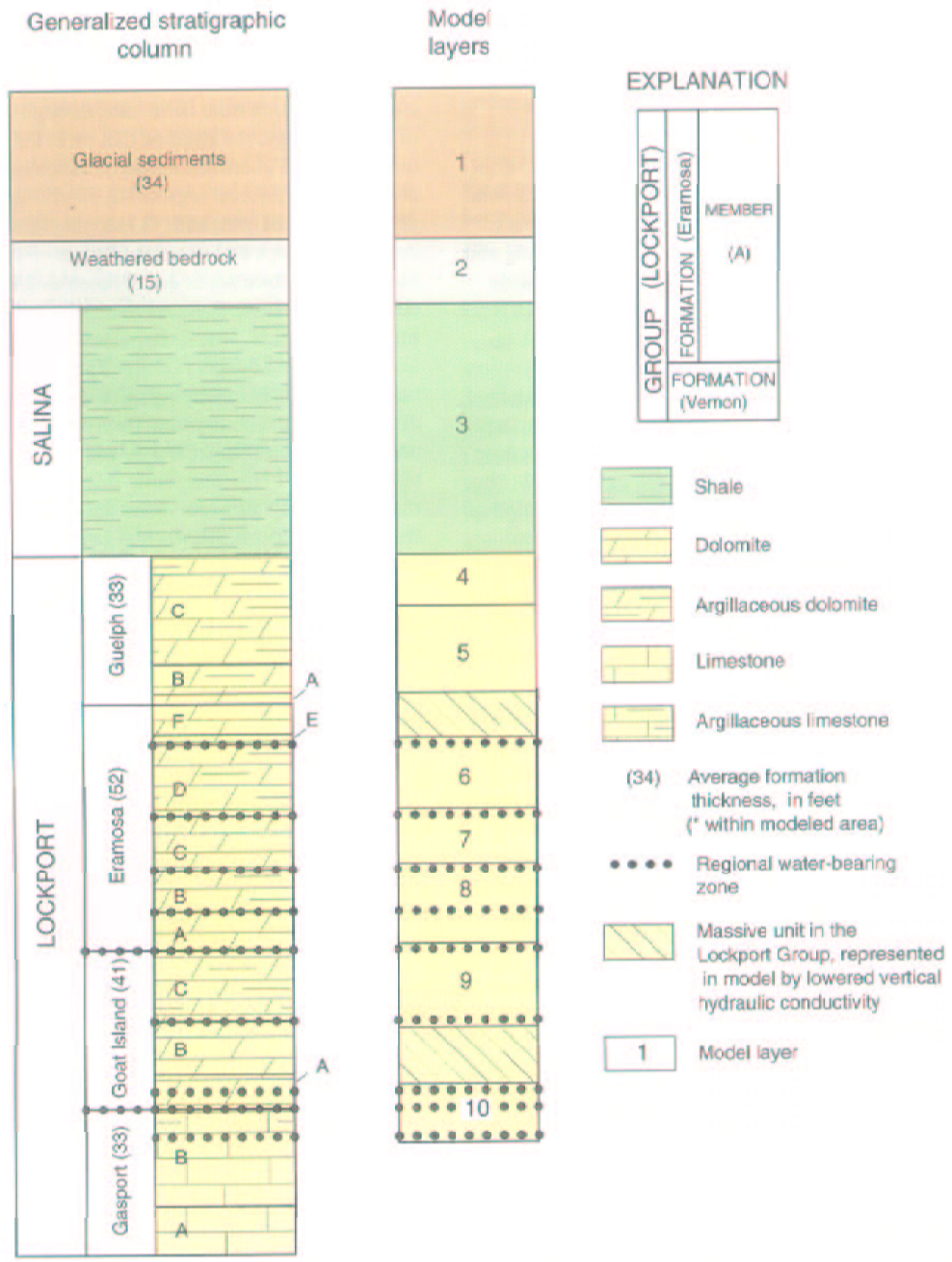
Non-Internet Public (NIP) information has been removed from a portion of Appendix O
(Figures 1 and 2)

This material is contained in:
Volume 2
Section: Determine to What Extent Project Operations Affect the Transport of Groundwater and Contaminants



Relations among stratigraphy (from Brett and others, 1995), regional water-bearing zones (from Tepper and others, 1991), and model layers. Use of proposed nomenclature for the Lockport Group does not constitute formal acceptance by the U.S. Geological Survey.

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Relations Among Stratigraphy
Regional Water Bearing Zones and Model Layers

NIAGARA POWER PROJECT

Figure 3

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FIGURE 4

GROUNDWATER POTENTIOMETRIC ELEVATIONS

GW03-016B-P6 AND GW03-PSA-D

2003

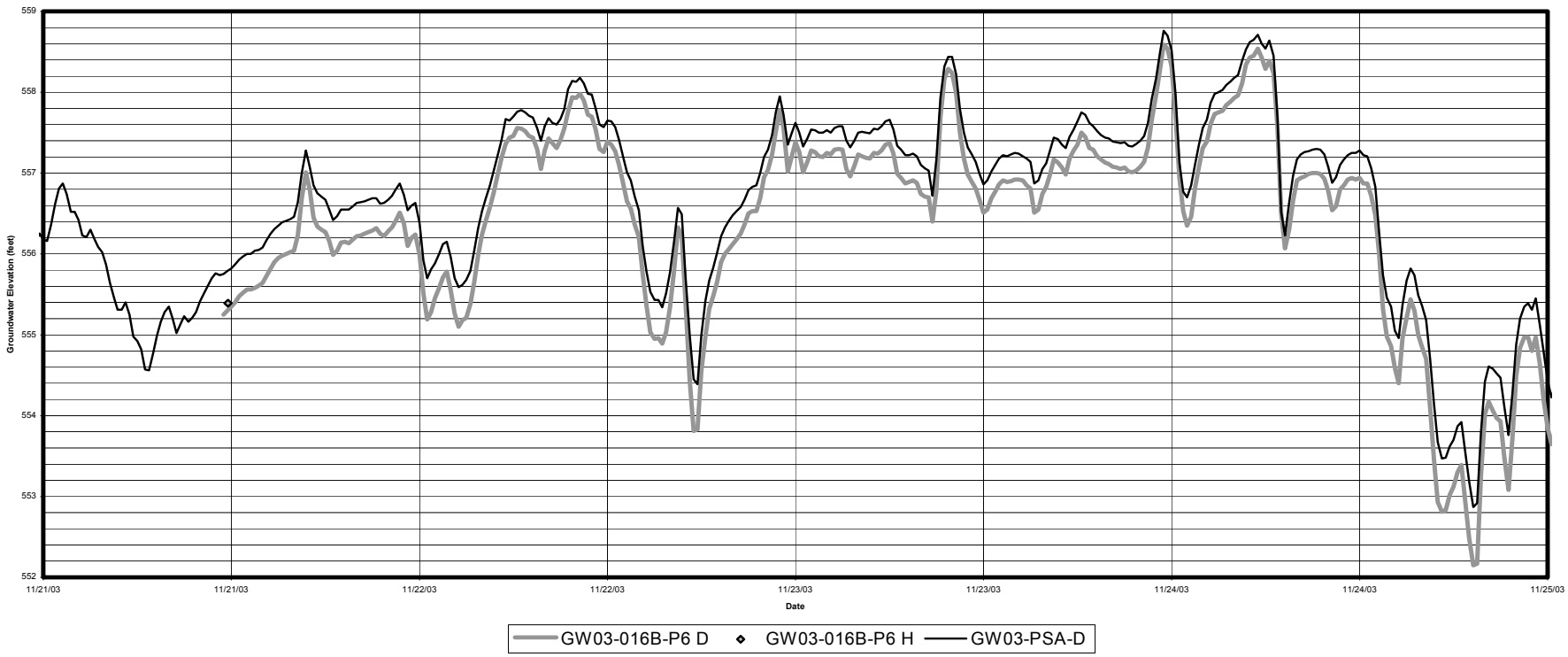

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FIGURE 5
GROUNDWATER POTENTIOMETRIC ELEVATIONS
GW03-012A-P2 and GW03-PSB-D
2003

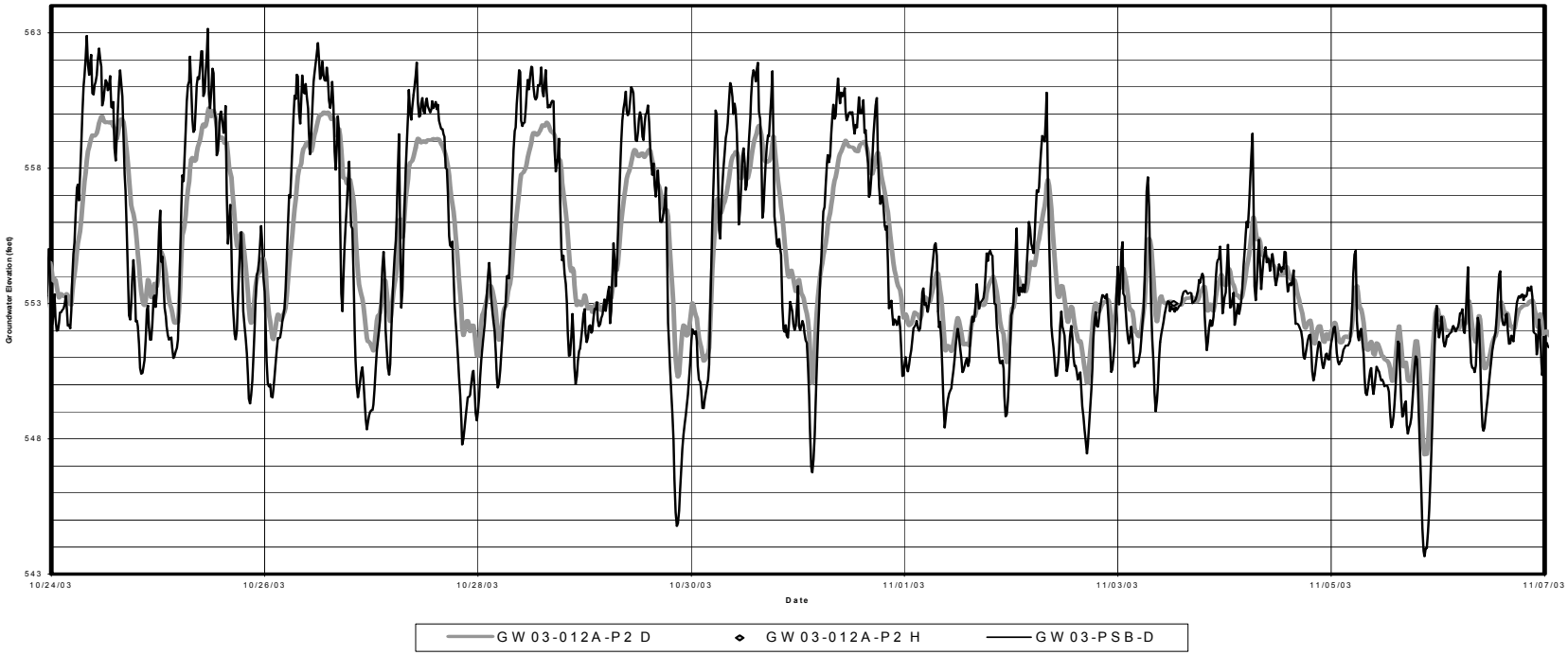

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FIGURE 6
GROUNDWATER POTENTIOMETRIC ELEVATIONS AND DIFFERENCES
Forbay and GW03-012A-P2 2003

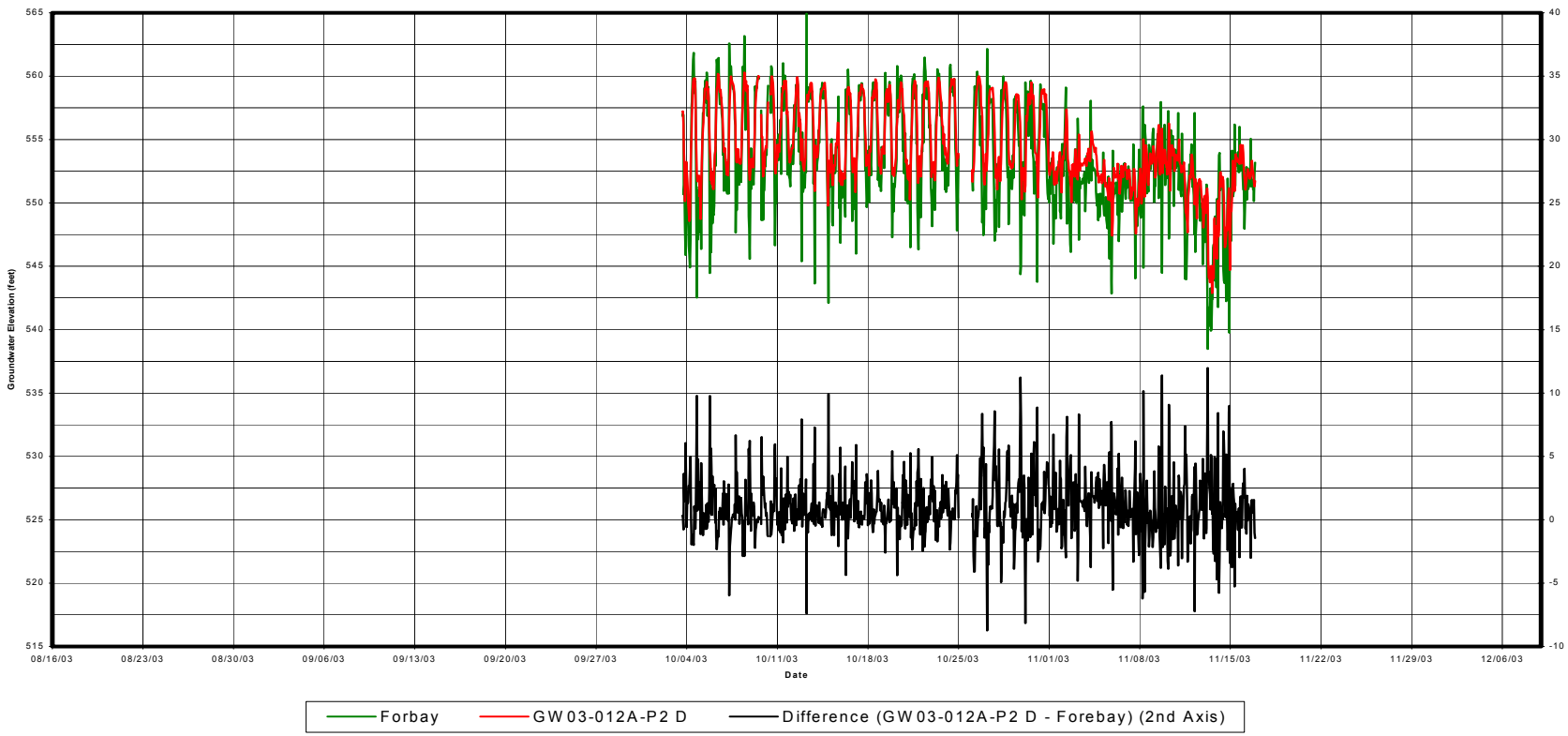

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FIGURE 7
GROUNDWATER POTENTIOMETRIC ELEVATIONS AND DIFFERENCES
GW03-012A-P2 and GW03-013A-P2 2003

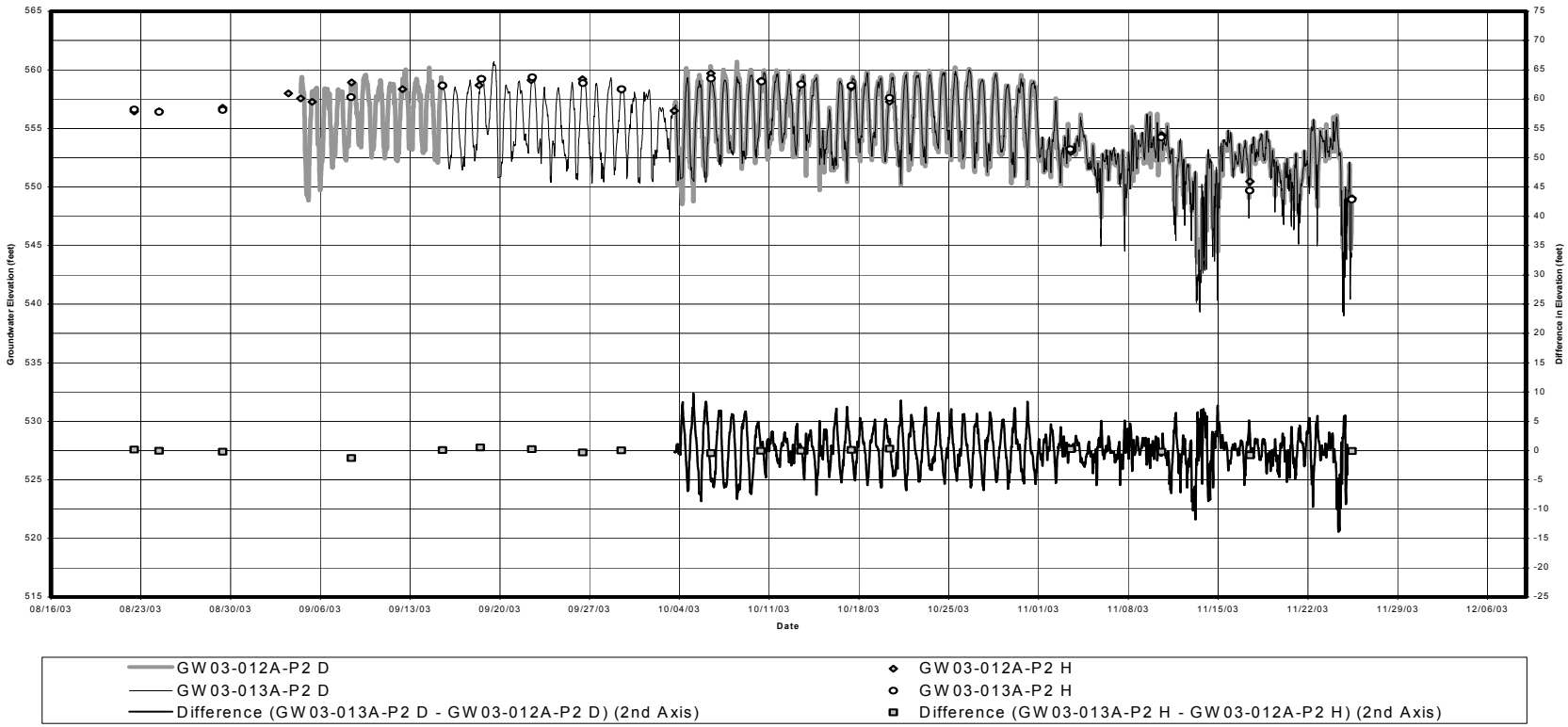

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FIGURE 8
GROUNDWATER POTENTIOMETRIC ELEVATIONS AND DIFFERENCES
GW03-012A-P2 and GW03-014B-P6 2003

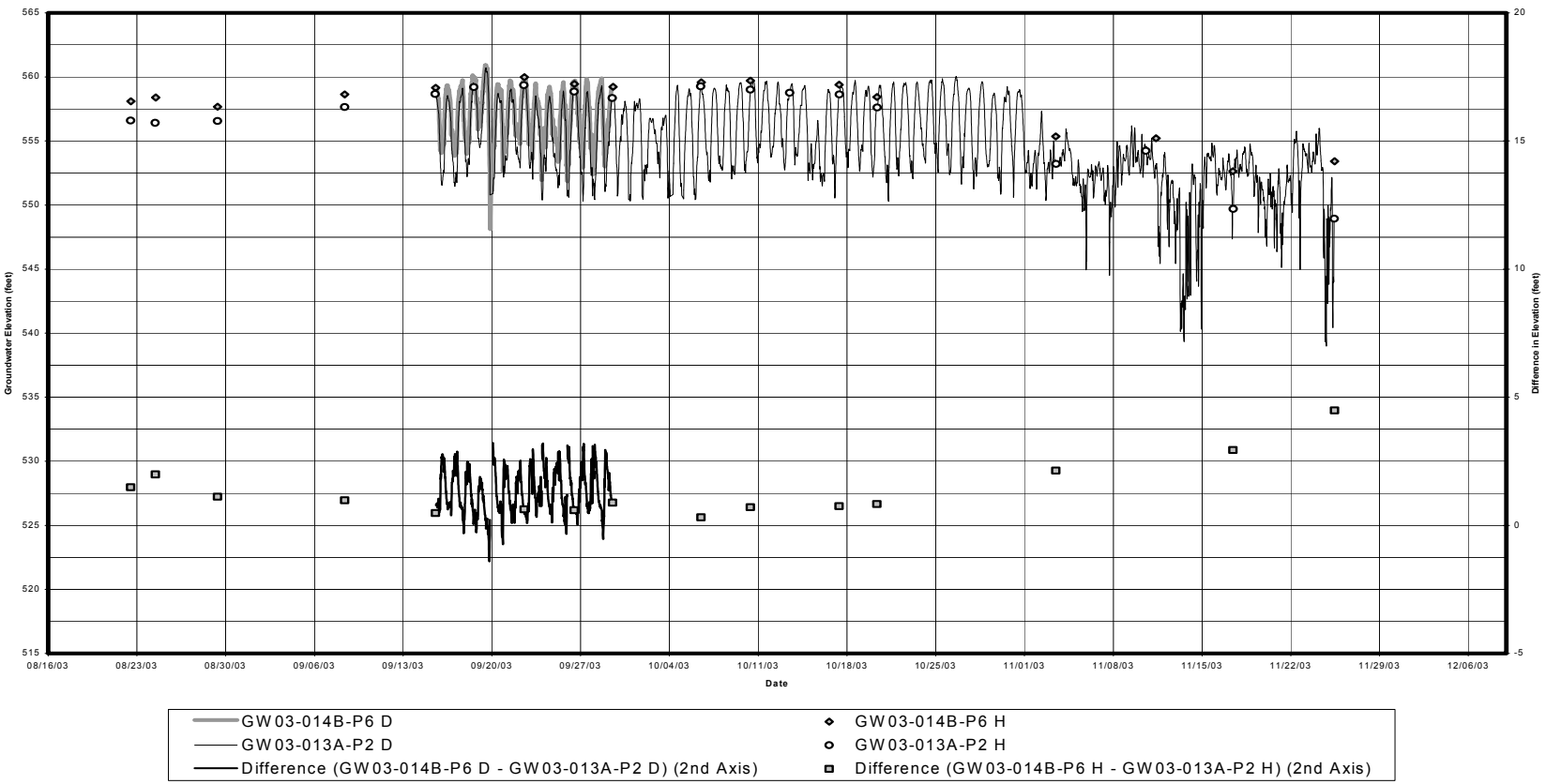

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FIGURE 9
GROUNDWATER POTENTIOMETRIC ELEVATIONS AND DIFFERENCES
GW03-014B-P6 and GW03-015B-P6 2003

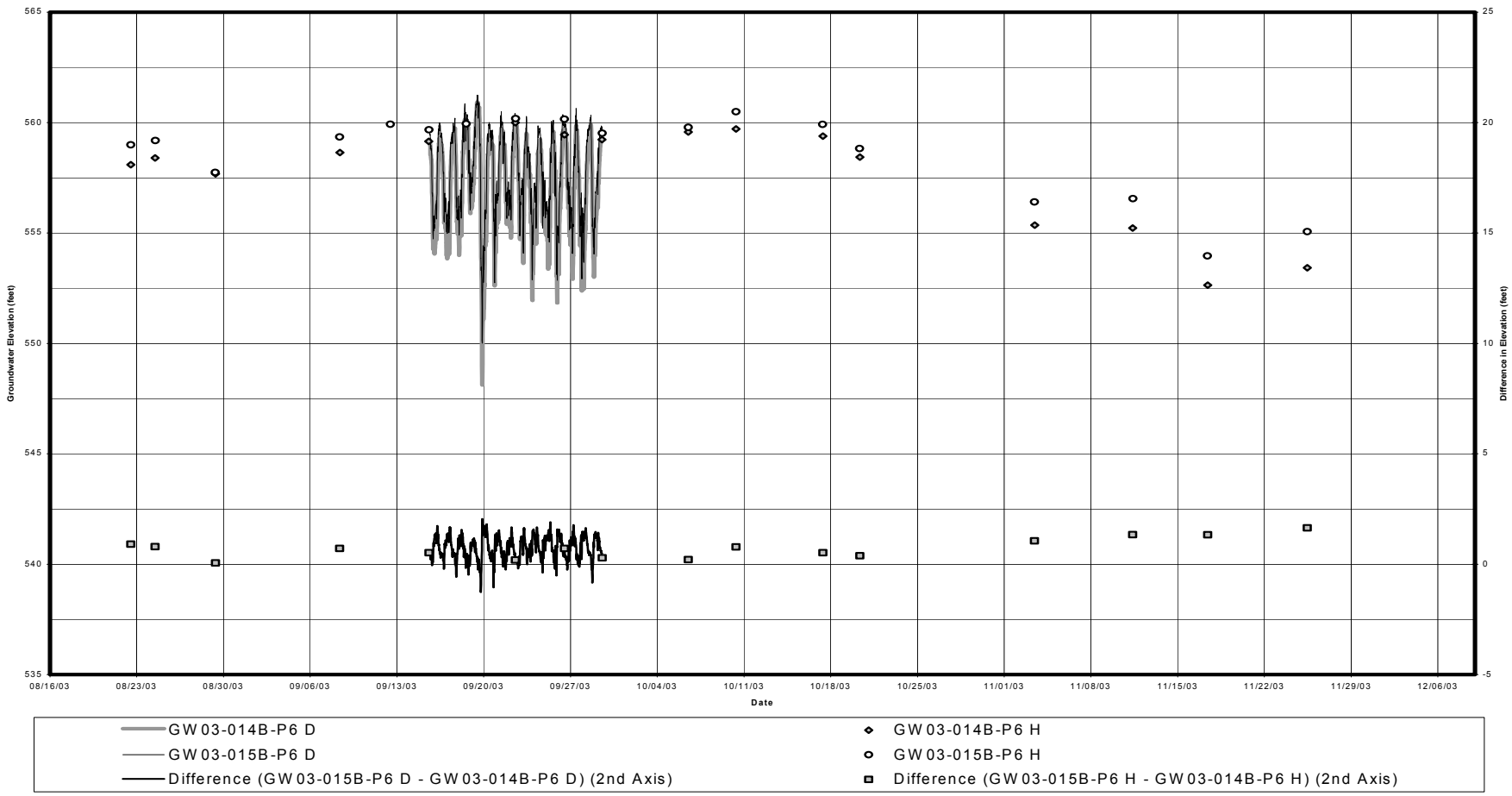

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FIGURE 10
GROUNDWATER POTENTIOMETRIC ELEVATIONS AND DIFFERENCES
GW03-015B-P6 and GW03-016B-P6 2003

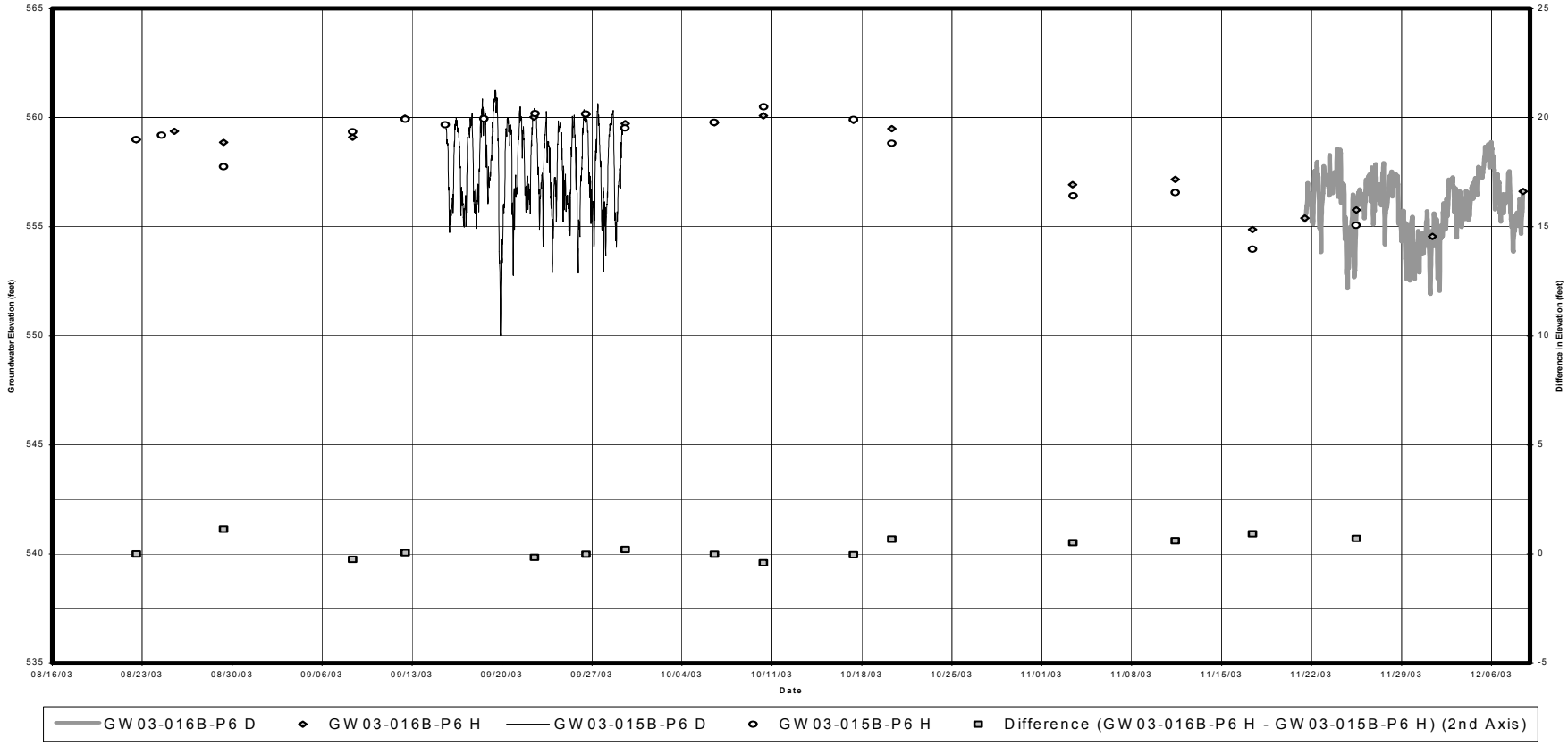

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FIGURE 11
GROUNDWATER POTENTIOMETRIC ELEVATIONS AND DIFFERENCES
GW03-016B-P6 and GW03-017B-P5 2003

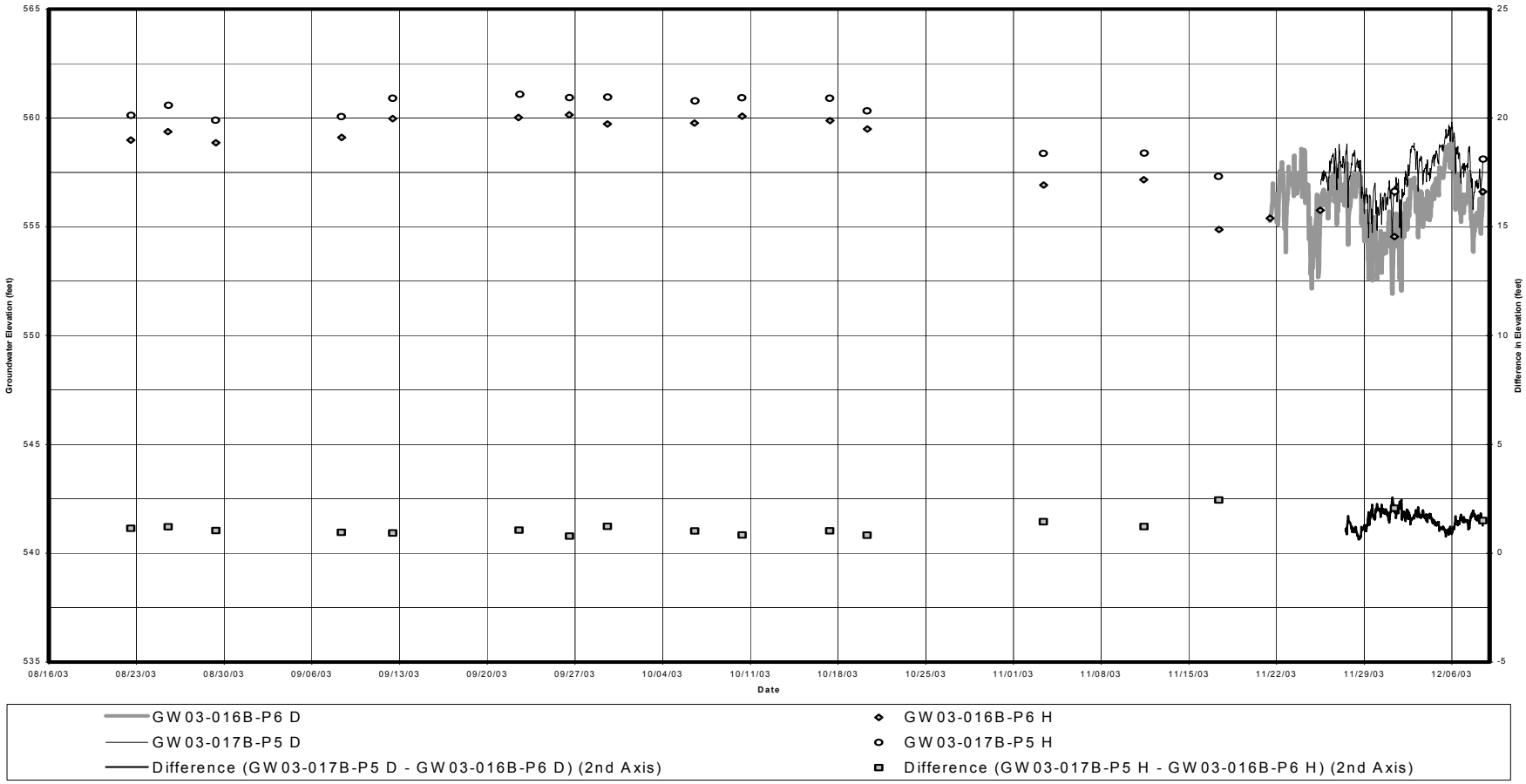

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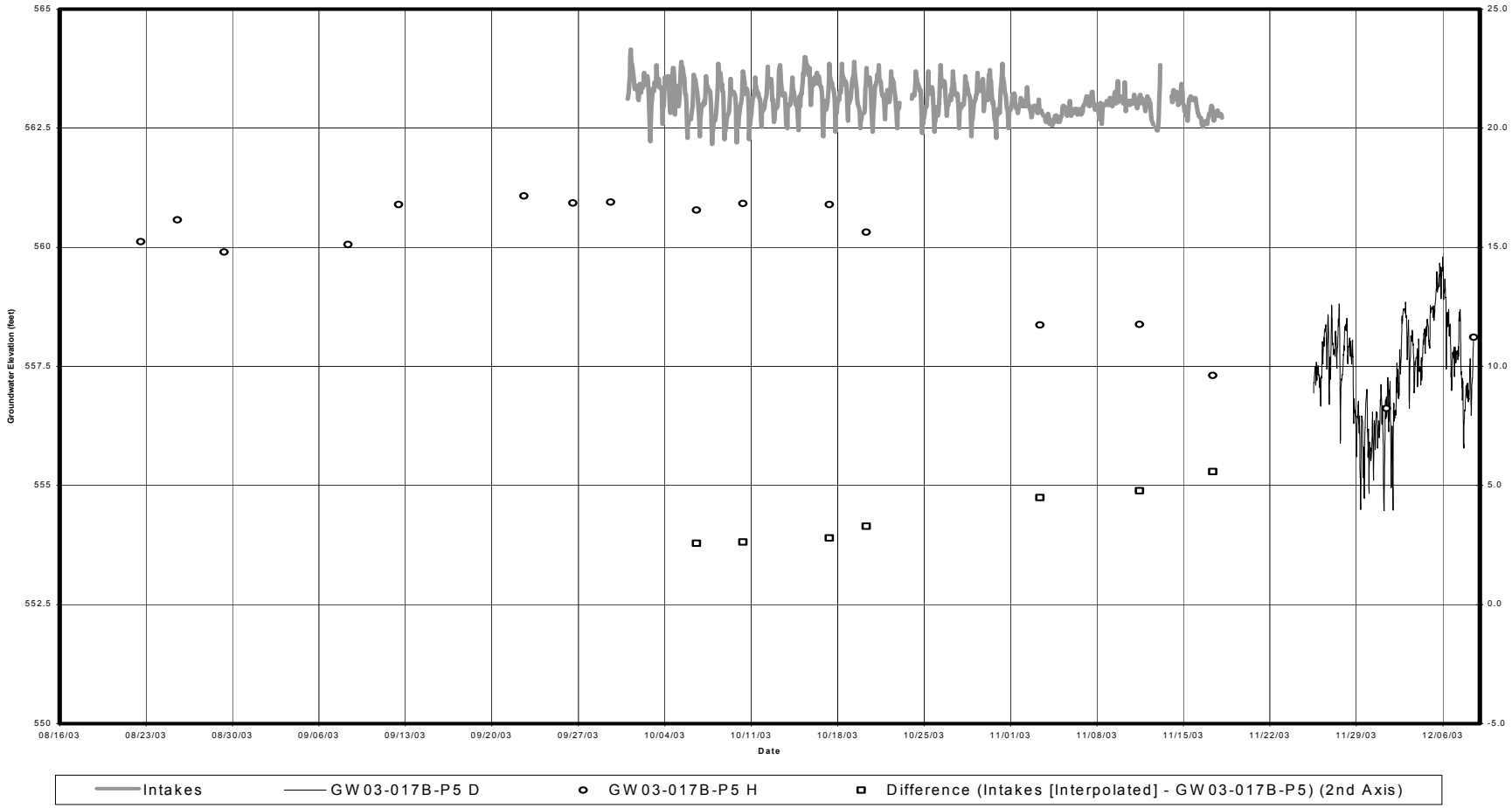
FIGURE 12
GROUNDWATER POTENTIOMETRIC ELEVATIONS AND DIFFERENCES
GW03-017B-P5 and Intakes 2003



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APPENDIX P

EVALUATION OF FALLS STREET TUNNEL INFILTRATION PATH AND SUPPORTING CALCULATIONS

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1. PURPOSE

The purpose of this calculation is to estimate flow rates reaching the Falls Street Tunnel (FST) via the horizontal drain pipes underneath the Power Authority conduits during the period of the FST flow monitoring study (Oct 20 – Nov 25, 2003).

2. PROBLEM DESCRIPTION

2.1 System Layout

The twin Power Authority conduits are constructed within trenches cut directly in rock. The concrete conduits are each approximately 65 feet high and 45 feet wide, and run parallel in the north-south direction from the Niagara River to the Power Authority forebay canal. Approximately 3,500 feet north of the river, the conduits pass underneath the Falls Street Tunnel. The tunnel has a dimension of approximately 7 feet and is cut in rock, except directly above the conduits, where it has been replaced with a concrete pipe. A conduit dewatering station (the South Pump Station) is located in the immediate vicinity of the area where the tunnel crosses above the Power Authority conduits. See page 7.

There is a system of horizontal drains underneath the conduit floor (Figures 10 and 11 of reference 1). It consists of four pipes paralleling the conduit centerline. Two corner drains are located along the edges of the conduit floor and two floor drains are located directly below the floor. The system also contains lateral pipes, connecting all four horizontal drains at 40-foot intervals. Vertical drains located every 10 feet along the conduit walls terminate in the corner drains. The corner drains are rectangular in cross section. Their dimensions are not shown on Figures 10 and 11 of reference 1; however, the Niagara Power Project record drawing 11C-186 (oversized, not included here) indicates approximately 1 by 2 feet. The floor drains are semi-circular, 24-inch diameter.

At the location of the South Pump Station, the drainage system is in direct connection with the central sump of the pump station. See Figure 11 of reference 1.

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2.2 Potential Flow Path

Water levels were measured in the central sump of the South Pump Station. The measurements correspond to the hydraulic head in the conduit drainage system at that location. Also, potentimetric heads were measured in the Lockport aquifer using a multi-piezometer cluster GW03-016, located adjacent to the conduits in the vicinity of the South Pump Station. It has been determined that the difference between the two is very small (see page 8, using piezometer P6 screened at the same depth as the drainage pipes). Data is available for the period of Nov 21 to 25. The pressure in the aquifer immediately next to the conduits reflects the pressure in the conduit drainage system.

Clusters GW03-017 and GW03-015 (see page 7) are constructed in the same way as GW03-P16. Piezometers P5 and P6 of these clusters, screened at the same depth as conduit drainage pipes, were used to represent the hydraulic head in the conduits on both sides of the intersection with the FST. The difference between the heads at GW03-017 and the drainage system at the FST, as well as the difference between GW03-015 and the drainage system at the FST are shown on page 9. For consistency, well cluster GW03-016 was used to represent the drainage system. This reflects the assumption that the small difference between the P6 piezometer at GW03-P16 and the drainage system is the same as corresponding differences at the other two locations. Note that the Power Project is operated in two modes. Before October 31st, the forebay canal which forms the downstream control of the conduit drainage system is maintained at a certain average elevation. After October 31st, the average level is lower(reference 1, Figure 9). Also note that only one data point is available during the tourist season part of the flow monitoring study (i.e. Oct 20 – Nov 25). This is not sufficient to create a meaningful average value. Therefore, the data period utilized to create the averages was extended to the entire available data set, beyond the period of the flow monitoring study.

The differences in hydraulic heads indicate the flow direction in the drainage pipes south of the FST is from the

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Niagara River towards the FST during both the tourist and non-tourist seasons. North of the FST, flow is away from the FST during the non-tourist season. During the tourist season, the gradient north of FST is very flat most of the time, and periodic changes in flow direction take place. The average flow appears to be still to the north, away from the FST.

3. CALCULATIONS

3.1 Method

Based on reference 2, Chapter 6.6, head loss in non-circular pipes can be approximated using a friction factor chart developed for circular pipes and replacing the pipe diameter with the hydraulic diameter of the non-circular pipe.

See equations 6.73, 6.71, 6.74 and 6.75:

$$h_f = f\ (L/D_h)\ (V^2/2g)$$

$$V = Q / A$$
$$D_h = 4A / P$$
$$f = F(Re;\varepsilon/D_h)$$
$$Re = V\ D_h / \nu$$

A - cross sectional flow area, $[L^2]$
D_h - hydraulic diameter, [L]
f - friction factor, [-]
g - acceleration of gravity, $[L/T^2]$
h_f - head loss, [L]
L - length of pipe, [L]
P - wetted perimeter, [L]
Q – flow rate, $[L^3/T]$
Re - Reynold's number, [-]
V - flow velocity, [L/T]
ν - kinematic viscosity, $[L^2/T]$

Here, the procedure will be used with a spreadsheet table. In order to avoid an iterative solution, an approximation of the friction factor valid for turbulent flows will be used (Swamme and Jain equation, see reference 3). Substituting hydraulic diameter D_h for circular pipe diameter D:

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$$f = 0.25 / \{\log[\varepsilon/(3.7\ D_h) + 5.74/(Re)^{0.9}]\}^2$$

Converting "log" to "ln" (log x = 0.4343 ln x):

$$f = 1.325 / \{\ln[\varepsilon/(3.7\ D_h) + 5.74/(Re)^{0.9}]\}^2$$

3.2 Estimate of Flow Rates

Parameters

Pipe material is partly concrete partly rock cut. Use the upper end value of concrete roughness (reference 2, Table 6.1).

ε = 3 mm = 0.003 m = 0.0098 ft

See page 9. The average head differentials are:

South of FST (GW03-17 to GW03-16):

h_f = 1.01 ft tourist season
= 1.74 ft non-tourist season

North of FST (GW03-15 to GW03-16):

h_f = 0.11 ft tourist season
= 0.68 ft non-tourist season

Approximate distances are (see page 7):

South of FST (GW03-17 to GW03-16): L = 3,500 ft

North of FST (GW03-15 to GW03-16): L = 4,000 ft

Kinematic viscosity of water, from reference 2, Table A.1, at 10 C.

$\nu = 1.307*10^{-6}\ m^2/s = 1.341*10^{-5}\ ft^2/s$

Calculate the hydraulic diameter for the semi-circular 24-inch pipe (r = 12 in = 1 ft).

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$A = (1/2)\ \pi\ r^2 = (1/2)\pi*1.0^2 = 1.57\ ft^2$
$P = (\pi + 2)\ r = (\pi + 2)*1.0 = 5.14\ ft$
$D_h = 4A / P = 4*1.57 / 5.14 = 1.22\ ft = 14.7\ in$

Calculate the hydraulic diameter for the rectangular 12 by 24 inch pipe (1.0 by 2.0 ft).

$A = 1.0*2.0 = 2.00\ ft^2$
$P = 2(1.0 + 2.0) = 6.00\ ft$
$D_h = 4A / P = 4*2.00 / 6.00 = 1.33\ ft = 16\ in$

Results

Calculations are presented on pages 10 and 11 for the tourist and non-tourist seasons, respectively. Final results are in the form of total flows in a given direction. This includes 4 semi-circular pipes and 4 rectangular pipes (two each in each of the two conduits):

	Tourist Season	Non-tourist Season
Flow from south towards FST (gpm)	5,386	7,088
Flow to the north away from FST (gpm)	1,616	4,112
Difference (gpm)	3,770	2,977

The flow rate reaching the FST via the conduit drainage pipes is the difference between the flow from the Niagara River to the FST (flow from south towards FST), and the flow to the north of the FST (flow to the north away from FST). The flow reaching the FST is approximately 3,800 gpm during the tourist season and approximately 3,000 gpm during the non-tourist seasons.

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4. REFERENCES

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3 Utah State University web site
www.engineering.usu.edu/cee/3500/minor_friction_losses.pdf

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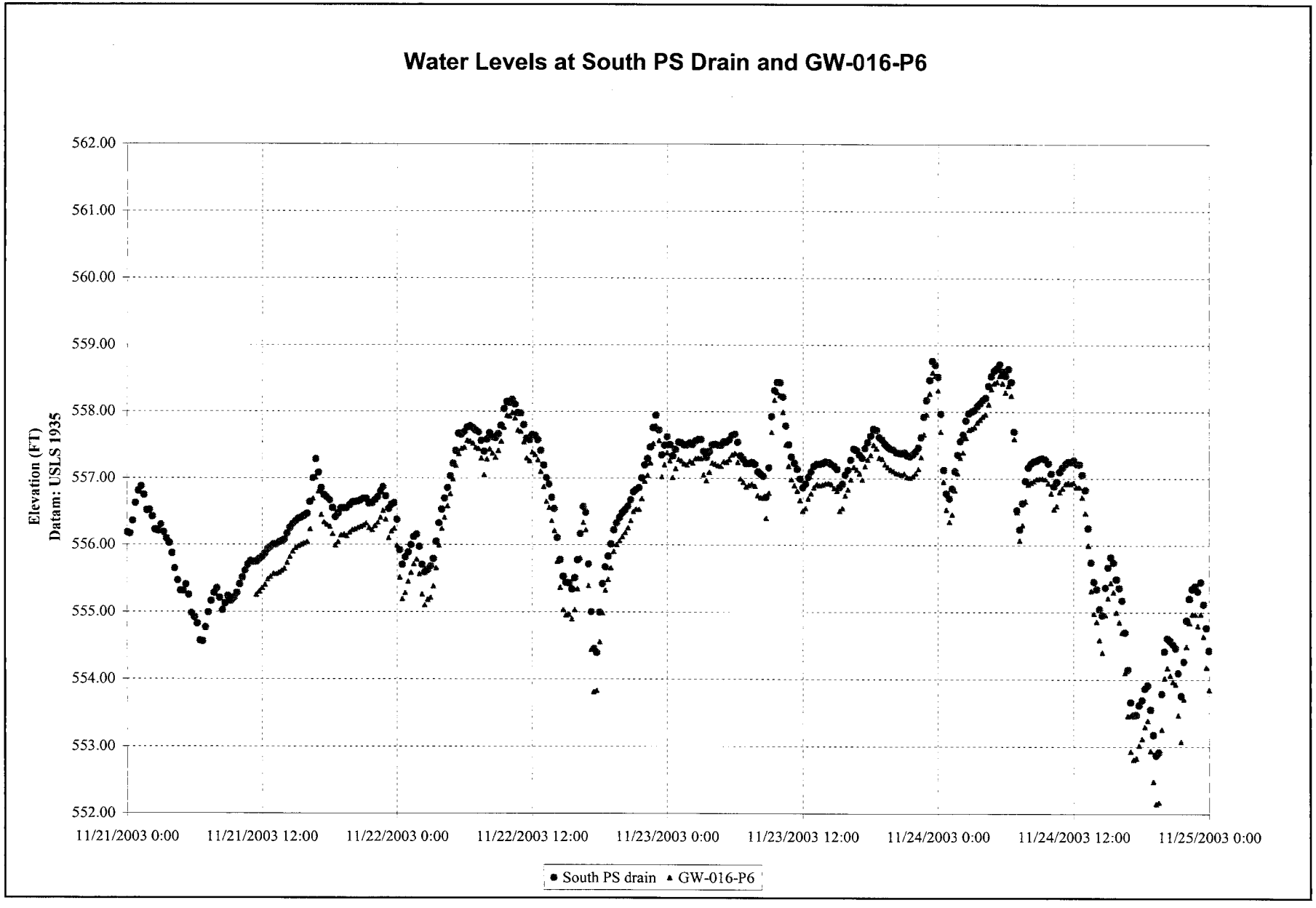

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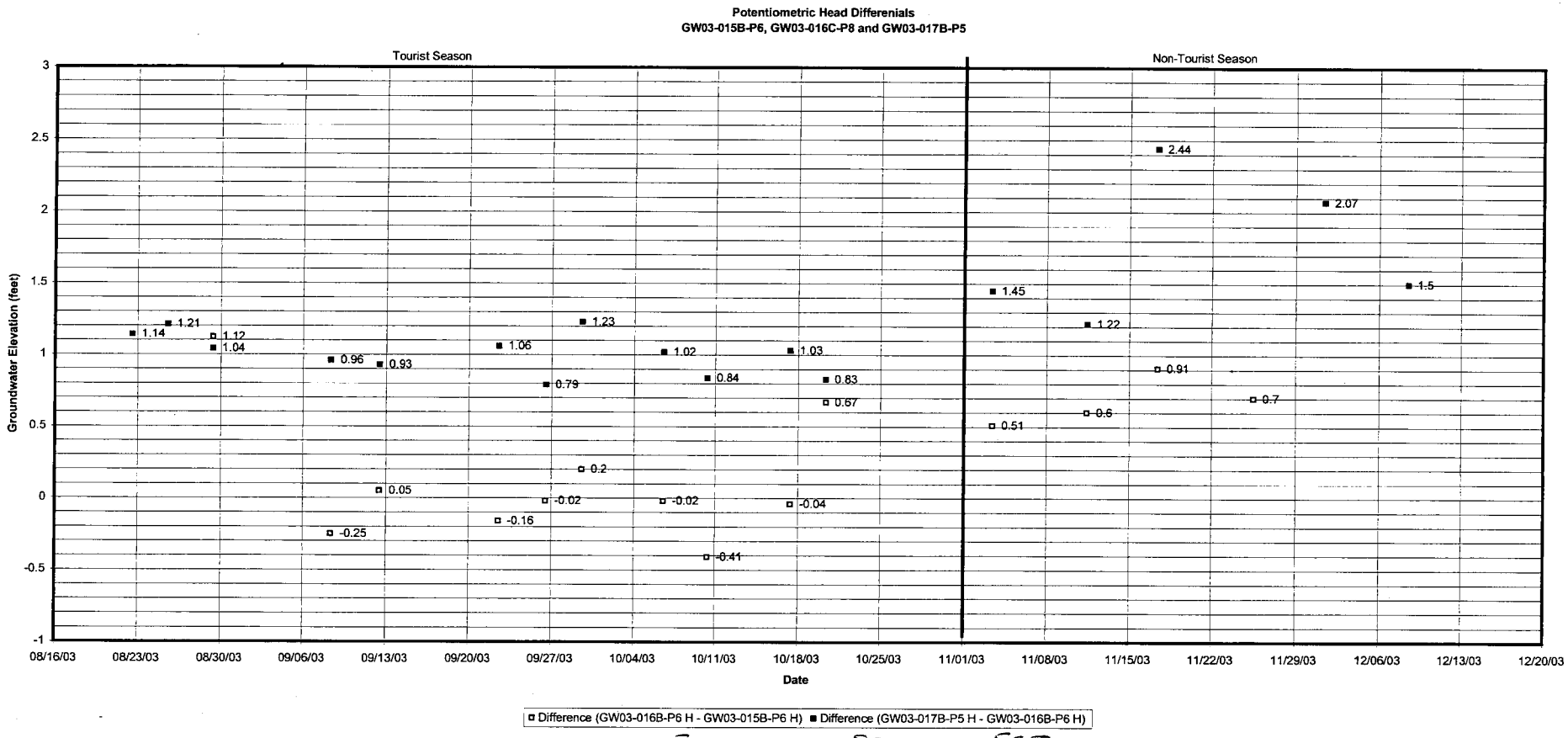

NORTH OF FST SOUTH OF FST

Analysis Water Elev Differences - River to Forbay.xls
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	AVERAGES [FT]	
	NORTH □	SOUTH ■
TOURIST	0.11	1.01
NON-TOURIST	0.68	1.74

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Flow during the tourist season

kinematic viscosity of water	ni =	1.41E-05	ft^2/sec
entrance loss coefficient	Ken =	0	
sum of local loss coefficients	Kloc =	0	
exit loss coefficient	Kex =	0	
pipe roughness	eps =	0.0098	ft

head loss del h = [Ken + Kex + f(L/D)] (V^2/2g)

friction factor

f = 1.325 / {ln[(eps/D)/3.7 + 5.74/Re^0.9]}^2 for turbulent flow, Re>4,000 Swamme and Jain equation
f = 64/Re for laminar flow, Re<2,000
f = ? f is not defined for transitional flow

segment	length L [ft]	flow Q [ft^3/sec]	pipe diameter D [in]	pipe area A=PiD^2/4 [ft^2]	flow velocity V=Q/A [ft/sec]	velocity head V^2/2g [ft]	Reynold's number Re=VD/ni [-]	relative roughness eps/D [-]	flow regime	friction factor f(Re,eps/D) [-]	total loss del h [ft]
SC-N	4,000	0.37	15	1.57	0.24	0.0009	2.1E+04	8E-03	turbulent	0.0386	0.11
R-N	4,000	0.53	16.5	2.04	0.26	0.0010	2.5E+04	7E-03	turbulent	0.0372	0.11
SC-S	3,500	1.26	15	1.57	0.80	0.0100	7.1E+04	8E-03	turbulent	0.0362	1.01
R-S	3,500	1.74	16.5	2.04	0.85	0.0113	8.3E+04	7E-03	turbulent	0.0351	1.01

SC-N semi-circular pipe north of FST
R-N rectangular pipe north of FST
SC-S semi-circular pipe south of FST
R-S rectangular pipe south of FST

Total (4 SC and 4 R)

From south Q =	**12.00 ft3/s =**	**5,386 gpm**
From north Q =	**3.60 ft3/s =**	**1,616 gpm**
Difference Q =		**3,770 gpm**

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head_losses_in_drainage
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Flow during the non-tourist season

kinematic viscosity of water	ni =	1.41E-05 ft^2/sec
entrance loss coefficient	Ken =	0
sum of local loss coefficients	Kloc =	0
exit loss coefficient	Kex =	0
pipe roughness	eps =	0.0098 ft

head loss del h = [Ken + Kex + f(L/D)] (V^2/2g)

friction factor

f = 1.325 / {ln[(eps/D)/3.7 + 5.74/Re^0.9]}^2 for turbulent flow, Re>4,000 Swamme and Jain equation
f = 64/Re for laminar flow, Re<2,000
f = ? f is not defined for transitional flow

segment	length L [ft]	flow Q [ft^3/sec]	pipe diameter D [in]	pipe area A=PiD^2/4 [ft^2]	flow velocity V=Q/A [ft/sec]	velocity head V^2/2g [ft]	Reynold's number Re=VD/ni [-]	relative roughness eps/D [-]	flow regime	friction factor f(Re,eps/D) [-]	total loss del h [ft]
SC-N	4,000	0.96	15	1.57	0.61	0.0058	5.4E+04	8E-03	turbulent	0.0366	0.68
R-N	4,000	1.33	16.5	2.04	0.65	0.0066	6.4E+04	7E-03	turbulent	0.0354	0.68
SC-S	3,500	1.65	15	1.57	1.05	0.0172	9.3E+04	8E-03	turbulent	0.0360	1.74
R-S	3,500	2.29	16.5	2.04	1.12	0.0196	1.1E+05	7E-03	turbulent	0.0348	1.74

SC-N semi-circular pipe north of FST
R-N rectangular pipe north of FST
SC-S semi-circular pipe south of FST
R-S rectangular pipe south of FST

Total (4 SC and 4 R)	**From south Q =**	**15.79 ft3/s =**	**7,088 gpm**
	From north Q =	**9.16 ft3/s =**	**4,112 gpm**
	Difference Q =		**2,977 gpm**

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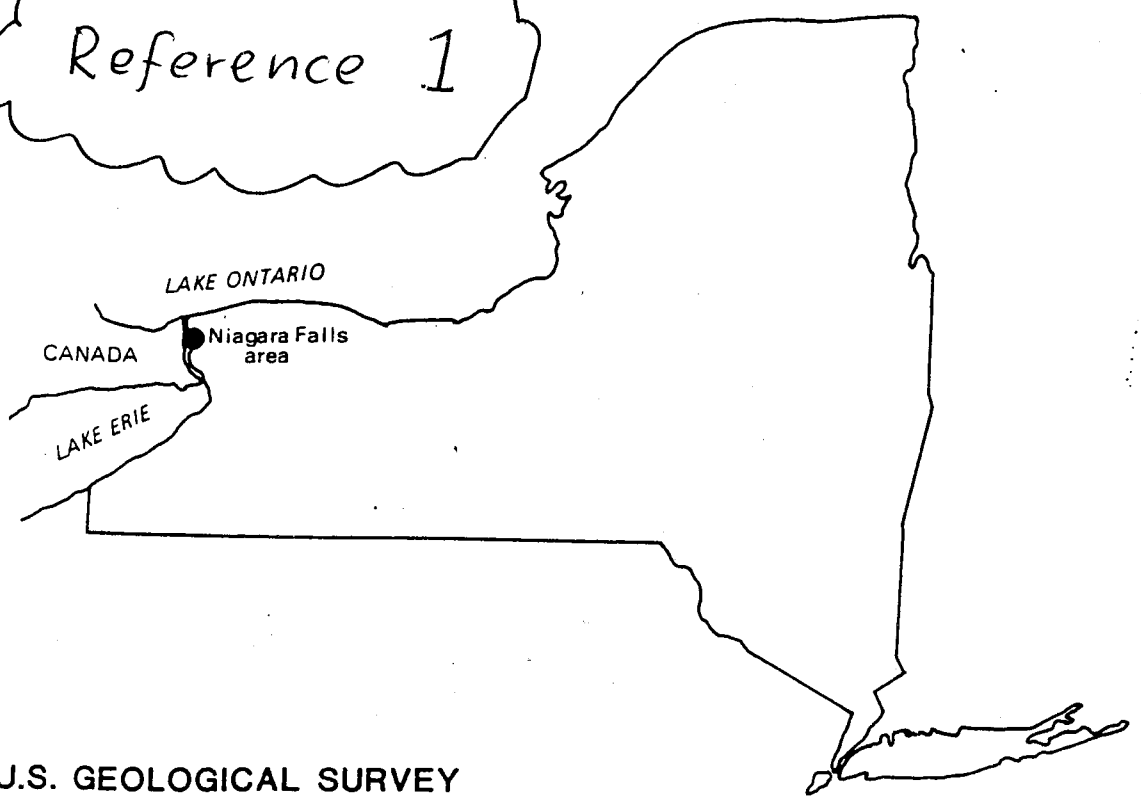
Reference 1



U.S. GEOLOGICAL SURVEY
Water-Resources Investigations
Report 86-4130

Prepared in cooperation with the
U.S. ENVIRONMENTAL PROTECTION AGENCY
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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Figure 9.--Vertical section C-C' along twin buried conduits. (Location is shown in fig. 1.)

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Figure 10.--General construction details of the Niagara Falls conduits at the northern, central, and southern parts of the conduit system. (Modified from Uhl, Hall and Rich, 1961.)

[NIP - General Location Maps]

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of 21

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Figure 11.--General details of conduit construction:
A. Exterior drain system. B. Pumphouse.

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Fluid Mechanics

THIRD EDITION

Frank M. White

UNIVERSITY OF RHODE ISLAND

Reference 2

McGRAW-HILL, INC.

NEW YORK ST. LOUIS SAN FRANCISCO AUCKLAND BOGOTÁ CARACAS

LISBON LONDON MADRID MEXICO CITY MILAN MONTREAL NEW DELHI

SAN JUAN SINGAPORE SYDNEY TOKYO TORONTO

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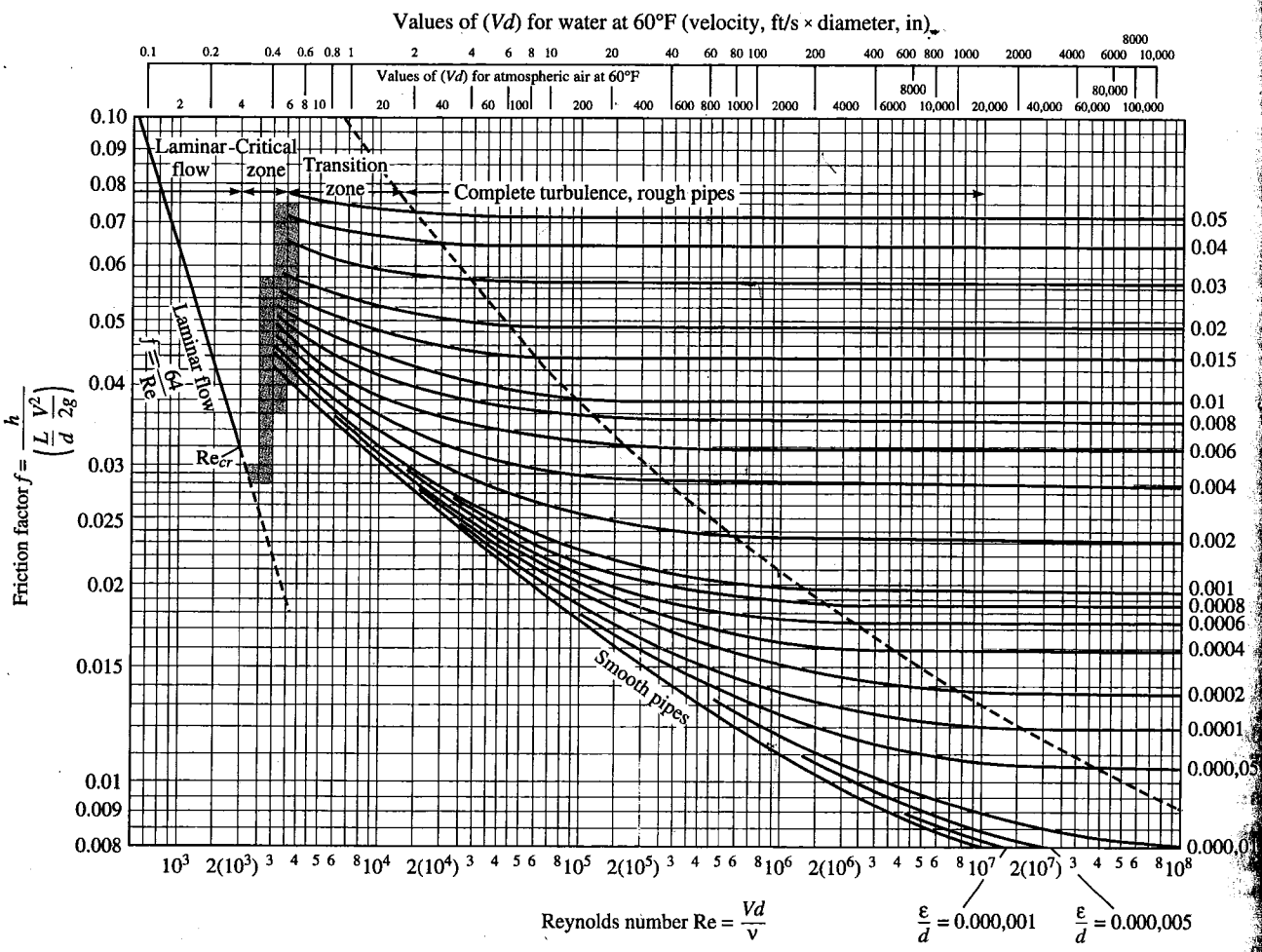

Fig. 6.13 The Moody chart for pipe friction with smooth and rough walls. This chart is identical to Eq. (6.64) for turbulent flow. (*From Ref. 8, by permission of the ASME.*)

From tests with commercial pipes Moody gave the values for average pipe roughness listed in Table 6.1.

Table 6.1 Average Roughness of Commercial Pipes

	ϵ	
Material (new)	**ft**	**mm**
Riveted steel	0.003–0.03	0.9–9.0
Concrete	0.001–0.01	0.3–3.0
Wood stave	0.0006–0.003	0.18–0.9
Cast iron	0.00085	0.26
Galvanized iron	0.0005	0.15
Asphalted cast iron	0.0004	0.12
Commercial steel or wrought iron	0.00015	0.046
Drawn tubing	0.000005	0.0015
Glass	"Smooth"	"Smooth"

Solution

Write f, Re_d, and ϵ/d in terms of the diameter:

$$f = \frac{\pi^2}{8}\frac{gh_f d^5}{LQ^2} = \frac{\pi^2}{8}\frac{(32.2\ \mathrm{ft/s^2})(4.5\ \mathrm{ft})d^5}{(200\ \mathrm{ft})(1.18\ \mathrm{ft^3/s})^2} = 0.642d^5 \qquad \text{or} \qquad d \approx 1.093f^{1/5} \tag{1}$$

$$\mathrm{Re}_d = \frac{4(1.18\ \mathrm{ft^3/s})}{\pi(1.1\ \mathrm{E\text{-}5\ ft^2/s})\,d} = \frac{136{,}600}{d} \tag{2}$$

$$\frac{\epsilon}{d} = \frac{0.0004\ \mathrm{ft}}{d} \tag{3}$$

with everything in BG units, of course. Guess f; compute d from (1), Re_d from (2), and ϵ/d from (3); and then compute a better f from the Moody chart. Repeat until convergence. The writer traditionally guesses an initial $f \approx 0.03$:

$$f \approx 0.03 \qquad d \approx 1.093(0.03)^{1/5} \approx 0.542\ \mathrm{ft}$$

$$\mathrm{Re}_d = \frac{136{,}600}{0.542} \approx 252{,}000 \qquad \frac{\epsilon}{d} \approx 7.38\ \mathrm{E\text{-}4}$$

$$f_{\mathrm{new}} \approx 0.0196 \qquad d_{\mathrm{new}} \approx 0.498\ \mathrm{ft} \qquad \mathrm{Re}_d \approx 274{,}000 \qquad \frac{\epsilon}{d} \approx 8.03\ \mathrm{E\text{-}4}$$

$$f_{\mathrm{better}} \approx 0.0198 \qquad d \approx 0.499\ \mathrm{ft} \qquad \textit{Ans.}$$

Convergence is rapid, and the predicted diameter is correct, about 6 in. The slight discrepancy (0.499 rather than 0.500 ft) arises because h_f was rounded to 4.5 ft.

In discussing pipe-sizing problems, we should remark that commercial pipes are made only in certain sizes. Table 6.2 lists standard water-pipe sizes in the United States. If the sizing calculation gives an intermediate diameter, the next largest pipe size should be selected.

If the duct is noncircular, the analysis of full developed flow follows that of the circular pipe but is more complicated algebraically. For laminar flow, one can solve the exact equations of continuity and momentum. For turbulent flow, the logarithm-law velocity profile can be used, or (better and simpler) the hydraulic diameter is an excellent approximation.

Hydraulic Diameter

For a noncircular duct, the control-volume concept of Fig. 6.10 is still valid, but the cross-sectional area A does not equal πR^2 and the cross-sectional perimeter wetted by the shear stress $\mathcal{P}$ does not equal $2\pi R$. The momentum equation (6.26) thus becomes

$$\Delta p\, A + \rho g A\, \Delta L \sin\phi - \bar{\tau}_w \mathcal{P}\, \Delta L = 0$$

[1] This section may be omitted without loss of continuity.

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or
$$h_f = \frac{\Delta p}{\rho g} + \Delta z = \frac{\bar{\tau}_w}{\rho g}\frac{\Delta L}{A/\mathcal{P}}$$

This is identical to Eq. (6.27) except that (1) the shear stress is an average valu grated around the perimeter and (2) the length scale $A/\mathcal{P}$ takes the place of th radius R. For this reason a noncircular duct is said to have a *hydraulic radius* R_h, de by

$$R_h = \frac{A}{\mathcal{P}} = \frac{\text{cross-sectional area}}{\text{wetted perimeter}}$$

This concept receives constant use in open-channel flow (Chap. 10), where the ch cross section is almost never circular. If, by comparison to Eq. (6.29) for pipe flo define the friction factor in terms of average shear

$$f_{\text{NCD}} = \frac{8\bar{\tau}_w}{\rho V^2}$$

where NCD stands for noncircular duct and $V = Q/A$ as usual, Eq. (6.70) beco

$$h_f = f\frac{L}{4R_h}\frac{V^2}{2g}$$

This is equivalent to Eq. (6.30) for pipe flow except that d is replaced by $4R_h$. The we customarily define the *hydraulic diameter* as

$$D_h = \frac{4A}{\mathcal{P}} = \frac{4 \times \text{area}}{\text{wetted perimeter}} = 4R_h$$

We should stress that the wetted perimeter includes all surfaces acted upon by the stress. For example, in a circular annulus, both the outer and the inner perimeter s be added. The fact that D_h equals $4R_h$ is just one of those things: Chalk it up engineer's sense of humor. Note that for the degenerate case of a circular pipe, $4\pi R^2/(2\pi R) = 2R$, as expected.

We would therefore expect by dimensional analysis that this friction factor f, upon hydraulic diameter as in Eq. (6.72), would correlate with the Reynolds nu and roughness ratio based upon the hydraulic diameter

$$f = F\left(\frac{VD_h}{\nu}, \frac{\epsilon}{D_h}\right)$$

and this is the way the data are correlated. But we should not necessarily expec Moody chart (Fig. 6.13) to hold exactly in terms of this new length scale. And it not, but it is surprisingly accurate:

$$f \approx \begin{cases} \dfrac{64}{\text{Re}_{D_h}} & \pm 40\% \quad \text{laminar flow} \\ f_{\text{Moody}}\left(\text{Re}_{D_h}, \dfrac{\epsilon}{D_h}\right) & \pm 15\% \quad \text{turbulent flow} \end{cases}$$

Now let us look at some particular cases.

Table A.1 Viscosity and Density of Water at 1 atm

T, °C	ρ, kg/m^3	μ, N · s/m^2	ν, m^2/s	T, °F	ρ, slug/ft^3	μ, lb · s/ft^2	ν, ft^2/s
0	1000	1.788 E-3	1.788 E-6	32	1.940	3.73 E-5	1.925 E-5
10	1000	1.307 E-3	1.307 E-6	50	1.940	2.73 E-5	1.407 E-5
20	998	1.003 E-3	1.005 E-6	68	1.937	2.09 E-5	1.082 E-5
30	996	0.799 E-3	0.802 E-6	86	1.932	1.67 E-5	0.864 E-5
40	992	0.657 E-3	0.662 E-6	104	1.925	1.37 E-5	0.713 E-5
50	988	0.548 E-3	0.555 E-6	122	1.917	1.14 E-5	0.597 E-5
60	983	0.467 E-3	0.475 E-6	140	1.908	0.975 E-5	0.511 E-5
70	978	0.405 E-3	0.414 E-6	158	1.897	0.846 E-5	0.446 E-5
80	972	0.355 E-3	0.365 E-6	176	1.886	0.741 E-5	0.393 E-5
90	965	0.316 E-3	0.327 E-6	194	1.873	0.660 E-5	0.352 E-5
100	958	0.283 E-3	0.295 E-6	212	1.859	0.591 E-5	0.318 E-5

Suggested curve fits for water in the range $0 \le T \le 100$°C:

$$\rho\,(\text{kg/m}^3) \approx 1000 - 0.0178|T°\text{C} - 4°\text{C}|^{1.7} \pm 0.2\%$$

$$\ln \frac{\mu}{\mu_0} \approx -1.704 - 5.306z + 7.003z^2$$

$$z = \frac{273\ \text{K}}{T\ \text{K}} \qquad \mu_0 = 1.788\ \text{E-3 kg/(m} \cdot \text{s)}$$

Table A.2 Viscosity and Density of Air at 1 atm

T, °C	ρ, kg/m^3	μ, N · s/m^2	ν, m^2/s	T, °F	ρ, slug/ft^3	μ, lb · s/ft^2	ν, ft^2/s
−40	1.52	1.51 E-5	0.99 E-5	−40	2.94 E-3	3.16 E-7	1.07 E-4
0	1.29	1.71 E-5	1.33 E-5	32	2.51 E-3	3.58 E-7	1.43 E-4
20	1.20	1.80 E-5	1.50 E-5	68	2.34 E-3	3.76 E-7	1.61 E-4
50	1.09	1.95 E-5	1.79 E-5	122	2.12 E-3	4.08 E-7	1.93 E-4
100	0.946	2.17 E-5	2.30 E-5	212	1.84 E-3	4.54 E-7	2.47 E-4
150	0.835	2.38 E-5	2.85 E-5	302	1.62 E-3	4.97 E-7	3.07 E-4
200	0.746	2.57 E-5	3.45 E-5	392	1.45 E-3	5.37 E-7	3.71 E-4
250	0.675	2.75 E-5	4.08 E-5	482	1.31 E-3	5.75 E-7	4.39 E-4
300	0.616	2.93 E-5	4.75 E-5	572	1.20 E-3	6.11 E-7	5.12 E-4
400	0.525	3.25 E-5	6.20 E-5	752	1.02 E-3	6.79 E-7	6.67 E-4
500	0.457	3.55 E-5	7.77 E-5	932	0.89 E-3	7.41 E-7	8.37 E-4

Suggested curve fits for air:

$$\rho = \frac{p}{RT} \qquad R_{\text{air}} \approx 287\ \text{J/(kg} \cdot \text{K)}$$

Power law: $$\frac{\mu}{\mu_0} \approx \left(\frac{T}{T_0}\right)^{0.7}$$

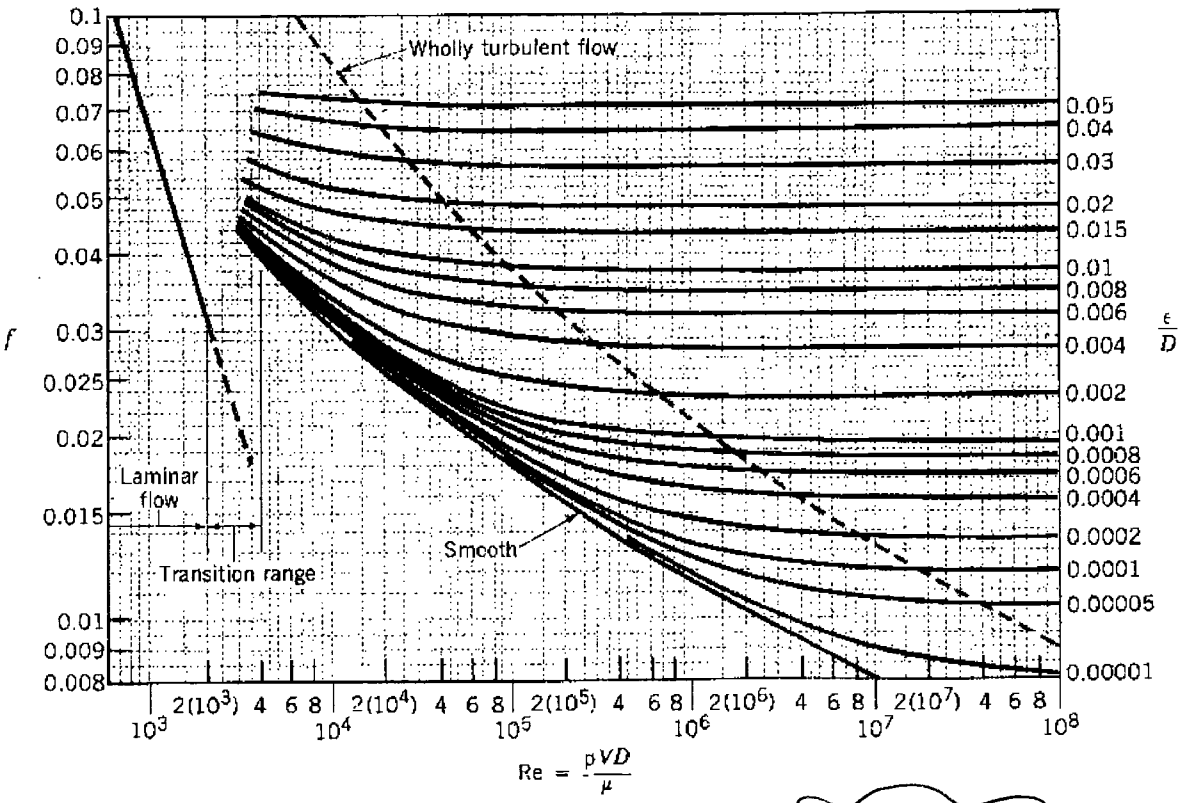
Sutherland law: $$\frac{\mu}{\mu_0} \approx \left(\frac{T}{T_0}\right)^{3/2} \left(\frac{T_0 + S}{T + S}\right) \qquad S_{\text{air}} \approx 110.4\ \text{K}$$

with $T_0 = 273$ K, $\mu_0 = 1.71$ E-5 kg/(m · s), and T in kelvins.

$$\frac{1}{\sqrt{f}} = 1.14 - 2\,\mathrm{Log}_{10}\left(\frac{e}{D} + \frac{9.35}{\mathrm{Re}\,\sqrt{f}}\right) \quad \text{where Re} = \frac{VD}{\nu}$$

e is the equivalent sand grain .
e/D is the relative roughness and is dimensionless.

The Moody diagram can also be used to calculate the friction factor .



Swamme Jain equation for pipe friction

Reference 3

$$f = \frac{0.25}{\left[\log_{10}\cdot\left(\frac{e}{3.7\cdot D} + \frac{5.74}{\mathrm{Re}^{0.9}}\right)\right]^2}$$

Utah State University
http://www.engineering.usu.edu/cee/3500/minor_friction_losses.pdf

PROJECT: NYPA - Relicensing Services
SUBJECT: Flow Through the High Transmissivity Zone

1. PURPOSE

The purpose of this calculation is to estimate flow rates that could potentially be conveyed within the high transmissivity zone within the Lockport group between the Niagara River and the location where the Falls Street Tunnel crosses the Power Authority conduits. The calculation is performed for the period corresponding to the flow monitoring study at the Falls Street Tunnel (Oct-Nov, 2003).

2. PROBLEM DESCRIPTION

In the study area, the Falls Street Tunnel is located approximately 3,000 feet north of the Niagara River. The tunnel is constructed as an open cut within the Lockport Dolomite. A high transmissivity zone within Lockport has been identified by Johnston (reference 1, Plate 2). See page 7 of this calculation for the location of that zone. It is approximately 2,000 feet wide, and extends in the southwest-northeast direction, connecting the tunnel with the Niagara River. The flow within the zone takes place from the river towards the tunnel (see reference 2, Figure 4).

Both the ground water potentiometric heads in the Lockport and the water surface elevations in the Niagara River were measured during this study. Well cluster GW03-016 was installed near the tunnel location within the high transmissivity zone. The cluster consisted of 8 piezometers screened at different depths within the Lockport. During the period of the Falls Street Tunnel flow monitoring study, hydraulic heads measured in all piezometers within the cluster were very similar. The maximum difference between any two piezometers was approximately 1 foot. Piezometer GW03-016-P7, screened at the elevation of the Falls Street Tunnel, is used here to represent the head in the Lockport at this location. See page 7 for well locations and page 8 for the hydraulic heads.

The flow rate can be estimated using the transmissivity and width of the high transmissivity zone, as well as the hydraulic gradient between the tunnel location and the river.

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3. CALCULATIONS

3.1 Method

The high transmissivity zone is located within the regional Lockport group. It has been estimated that the transmissivity within the zone is significantly higher than that of the Lockport in general (reference 1, page 31). Therefore, by comparison, flow within Lockport outside of the zone can be ignored. Based on that, the flow between the river and the tunnel can be estimated as:

$$Q = W\ T\ \Delta H_{r-t}/L_{r-t}$$

Where:

L_{r-t} - distance between river and tunnel along the axis of the high transmissivity zone, [L]
Q – flow rate, $[L^3/T]$
T - transmissivity of the zone, $[L^2/T]$
W – width of the zone, [L]
ΔH_{r-t} – differential between the water level in the river and ground water potentiometric head around the tunnel, [L]

In addition to the flow from the river, there would be a contribution created by infiltration between the river and the FST/conduit confluence area. This can be estimated as:

$$Q_I = W\ L_{r-t}\ I$$

Where:

I – infiltration from precipitaion, [L/T]
Q_I – flow rate from infiltration, $[L^3/T]$

3.2 Parameters

Transmissivity

Information is available on the yield of a production well

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located within the zone of high transmissivity, during the period when the area was not affected by other production wells (mid 1930s). Based on reference 1, Table 7, an 18-inch diameter well 303-901-5 was constructed in 1936 and supplied 3,450 gpm (664,000 ft^3/day) with a drawdown of 16 ft. The well is placed approximately 1,500 feet from the Niagara River (see page 7). Using the formula for the yield of a well near a constant-head boundary (here, the Niagara River), (based on reference 3, equation 8-154), the drawdown at any point within the aquifer is:

$$s(r) = (Q_w/2\pi T)\ \ln(r'/r)$$

Where:

Q_w - extraction rate, $[L^3/T]$
r - distance from point to extraction well, [L]
r' - distance from point to image well, [L]
s(r) – drawdown at distance "r" from well, [L]
T - transmissivity, $[L^2/T]$

From this, the transmissivity can be estimated as:

$$Q_w/s(r) = 2\pi T\ /\ \ln(r'/r)$$

$$T = [Q_w/s(r)]\ [\ln(r'/r)/2\pi]$$

At well face:

$$s(r) = \text{drawdown in well} = s_w$$

$$r = \text{well radius} = r_w$$

$$r' = 2*\text{distance from river to well} = 2d$$

$$T = (Q_w/s_w)\ \ln[(2d/r_w)]/2\pi$$

Substituting parameters:

$$T = [664{,}000/16]\ \ln[2*1{,}500/(0.5*18/12)]/2\pi =$$
$$= 41{,}500*\ln(4{,}000)\ /\ 2\pi = 55{,}000\ ft^2/d$$

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Note that flow/drawdown data used above pertains to the 1930s. The distance from the well to the Niagara River has changed between the present and 1930s as a result of construction of the Robert Moses parkway and the Power Project. However, since the distance appears as part of the argument of the logarithm, it is of little importance. For example, assuming 600 feet (approximate distance from the 1900s shore line, reference 2, Figure 4).

$$T = [664{,}000/16]\ \ln[2*600/(0.5*18/12)]/2\pi =$$
$$= 41{,}500*\ln(1{,}600)\ /\ 2\pi = 49{,}000\ ft^2/d$$

Infiltration rate

Based on reference 4, the mean recharge rate in the urban area west of the conduits was estimated at $2.5*10^{-3}$ ft/d.

$$I = 2.5*10^{-3}\ ft/d$$

Other

Based on measurements presented on page 8, the typical head differential between the river and ground water at the location of the tunnel is approximately 6 feet during the tourist season and 8 feet during the non-tourist season. The distance from the river to the tunnel along the axis of the high transmissivity zone is approximately 5,500 feet (page 7). The width of the zone is approximately 2,000 feet (page 7).

Based on that:

ΔH_{r-t} = 6 and 8 ft (tourist and non-tourist)

L_{r-t} = 5,500 ft

W = 2,000 ft

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3.3 Flow rates

The flow rate during tourist season is:

$$Q = W\ T\ \Delta H_{r-t}/L_{r-t} = 2{,}000*55{,}000*6/5{,}500 =$$
$$= 120{,}000\ ft^3/day = 625\ gpm$$

The flow rate during non-tourist season is:

$$Q = W\ T\ \Delta H_{r-t}/L_{r-t} = 2{,}000*55{,}000*8/5{,}500 =$$
$$= 160{,}000\ ft^3/day = 833\ gpm$$

Flow rate from infiltration is:

$$Q_I = W\ L_{r-t}\ I = 2{,}000*5{,}500*2.5*10^{-3} =$$
$$= 27{,}500\ ft^3/d = 143\ gpm$$

Totals:

Tourist Season $Q_{TOT} = 625 + 143 = 768$ gpm

Non-Tourist Season $Q_{TOT} = 833 + 143 = 976$ gpm

4. SUMMARY

The flow rate within the high transmissivity zone of Lockport Dolomite between the Niagara River and the location of the Falls Street Tunnel has been estimated to be on the order of 1,000 gpm. This includes flow from the Niagara River and flow generated by recharge from precipitation.

This estimate can be compared with data for well 305-900-1 (reference 1, Table 3). This well was located near the confluence of present alignments of FST and power Authority conduits. It was pumped in 1958, and the flow stabilized at 950 gpm. The Power Project was constructed between 1958 and 1962; therefore, the test was conducted during undisturbed conditions. Based on this test, the high-transmissivity zone appears to be able to conduct the amount of water estimated above from the Niagara River to the location of the FST/conduits confluence.

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Site Plan

[NIP - General Location Maps]

Figure 1

NIAGARA POWER PROJECT

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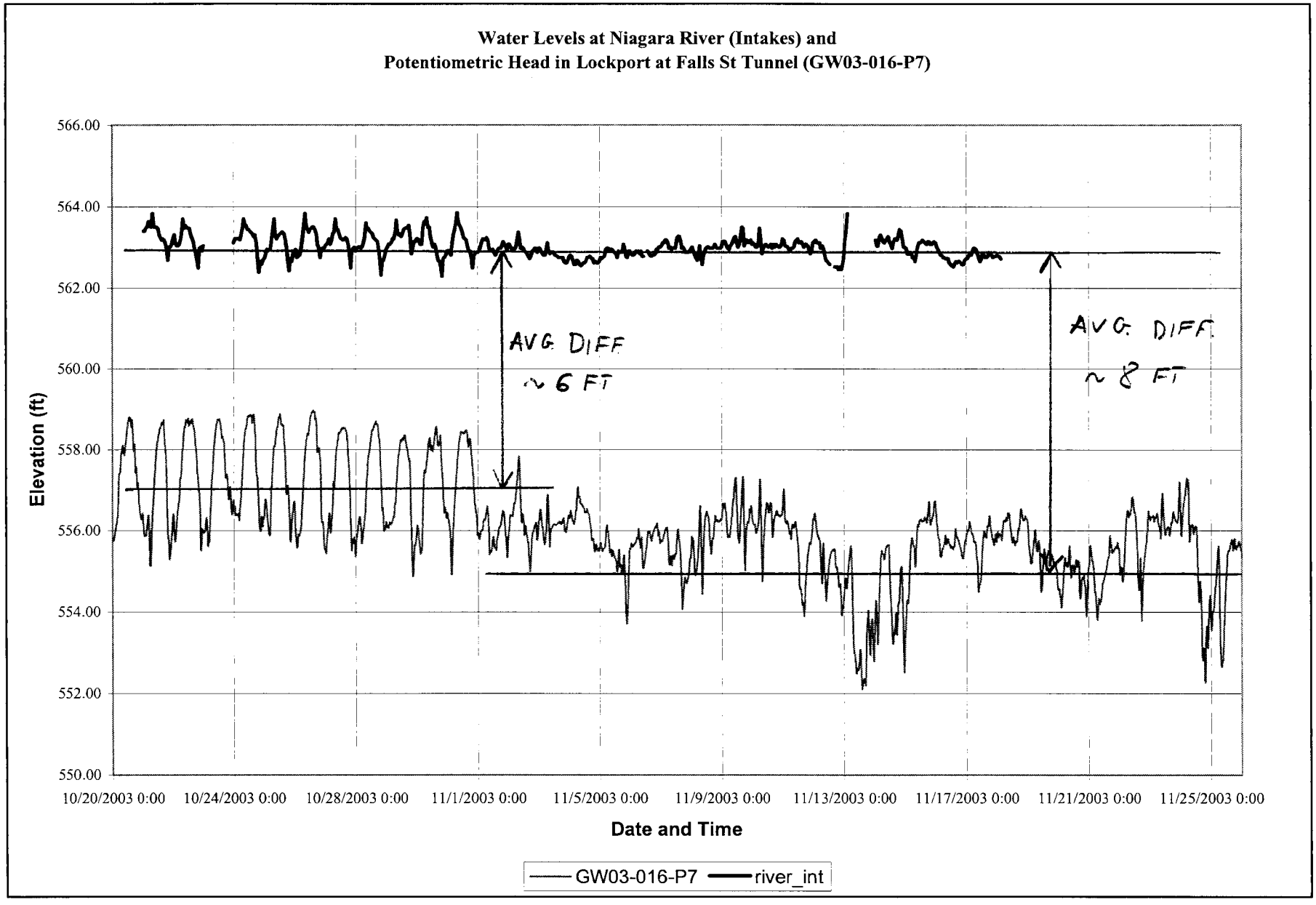

river&P7 Chart 1
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GROUND WATER IN THE NIAGARA FALLS AREA, NEW YORK

With Emphasis on the Water-Bearing Characteristics of the Bedrock

BY

RICHARD H. JOHNSTON

GEOLOGIST

U.S. GEOLOGICAL SURVEY

Reference 1

STATE OF NEW YORK

CONSERVATION DEPARTMENT

WATER RESOURCES COMMISSION

BULLETIN GW-53

1964

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One of the most striking features in plate 2 is that all wells yielding more than 1,000 gpm are located in a narrow band that intercepts the river about two miles east of the falls. This band trends in a northeasterly direction roughly parallel to one of the two major directions of vertical jointing. Thus, the very high yields may be caused by a greater abundance of vertical joints within the band of high-yielding wells. Vertical joints provide avenues through which water could readily move from the river downward to the bedding joints comprising the water-bearing zones in the Lockport Dolomite.

Wells in the Lockport Dolomite are almost always adequate for domestic needs of a few gallons per minute. Supplies of 50 to 100 gpm, which are adequate for commercial uses and small public supplies, can be obtained in much of the area underlain by the upper part of the Lockport (pl. 2). Large supplies (over 1,000 gpm), as previously noted, are available only in a small area adjacent to the Niagara River.

Wells inadequate for domestic needs are occasionally reported. All wells that are perennially inadequate are located near the Niagara escarpment and therefore tap only the lowest and least permeable water-bearing zones (1, 2, and 3) in the Lockport. Throughout the area a few shallow wells that derive nearly all their water from a single water-bearing zone become inadequate during the summer and autumn of some dry years. Such is the case with well 308-853-1. This well is 27 feet deep and reportedly obtained over 50 gpm from a water-bearing zone 17 feet below land surface. During the drought in 1960, this zone was dewatered as the water table declined in the fall of the year, and the yield of the well quickly declined to less than 1 gpm. The inadequacy of some wells in the Lockport Dolomite can normally be overcome by deepening the well until it penetrates one or more lower water-bearing zones.

Information on the specific capacity of a well is more meaningful than a simple statement of yield. The specific capacity is the yield per unit drawdown, generally expressed as gallons per minute per foot of drawdown. For example, well 307-903-1 was pumped at 20 gpm with 54 feet of drawdown which indicates a specific capacity of 0.37 gpm per foot. The yield and the drawdown for a number of wells in the Lockport are shown in plates 2 and 3. These data must be used with care as they apply only so long as no part of the formation is dewatered.

As water-bearing zones in the Lockport are dewatered, the specific capacity declines. The decline in specific capacity caused by dewatering a water-bearing zone is shown by the data obtained during a pumping test on well 309-859-1. This well was pumped at 2.2 gpm with 5.0 feet of drawdown for 70 minutes--specific capacity of 0.44 gpm per foot. After 70 minutes, water-bearing zone 3 was partially dewatered and a drawdown of 8.2 feet was required to maintain the pumping rate of 2.2 gpm. This indicates a specific capacity of 0.27 gpm per foot. At the time the well was drilled, it was bailed at 3 gpm with a drawdown of about 60 feet. Thus, during the bailing the entire 42 feet of Lockport penetrated by the well was dewatered. The specific capacity of the well with the Lockport dewatered is 0.07 gpm per foot (3 gpm with 42 feet of drawdown) compared to 0.44 gpm per foot with no dewatering.

Table 3.--Summary of aquifer tests in the Lockport Dolomite

Pumping well	Observation wells	Date of test	Pumping rate (Q), (gallons per minute)	Transmissibility (T) (gallons per day per foot)	Storage coefficient (S)	Saturated thickness (feet)	Duration of test	Remarks
304-901-2	304-901-1 304-901-3	July 1947	1,740	68,000	---	136	--	Thiem formula applied to stabilized drawdown in two observation wells. Yield of well partly supplied by induced recharge from Niagara River. Observation wells located 11 and 550 ft from pumping well at approximately same distance from river as pumping well. Pumping-test data supplied by E. I. du Pont de Nemours & Co.
305-900-1	2 observation wells, unnumbered	Nov. 4-7, 1958	950	17,000	---	140	74 hours	Pumping rate at start of test was 1,100-1,200 gpm. Pumping rate stabilized at 950 gpm with 82 ft of drawdown after 66 hrs. Thiem formula applied to stabilized drawdown in two observation wells 400 and 600 ft away. Yield of well probably partly supplied by induced recharge from Niagara River. Pumping-test data supplied by Layne-New York Co., Inc.
308-900-15	308-900-1	Nov. 21-22, 1961	5.5	900	.00003	17	12 hours	Theis plots of drawdown and recovery show recharging boundary (Niagara Power Project Reservoir).
308-900-16	---	May 10, 1962	3.2	700	---	36	1½ hours	Recovery measured in closed-off flowing well. Theis recovery formula applied to recovery of water level.
309-859-1	309-859-2 309-859-3	Nov. 4, 1960	2.2	1,000	.0003	38	3½ hours	Values of T and S calculated from drawdown of water level in observation well 309-859-2. Value of T declined from 1,000 to 130 as Lockport was dewatered during test. Full discussion of this test, utilizing the Theis method of analysis, given in text.
309-859-2	309-859-1 309-859-3	Oct. 11, 1960	2.2	330	.00001	42	2 hours	Values for T and S calculated from drawdown of water level in observation well 309-859-1. Excellent match on Theis type curve. Value of T is representative for lower part of Lockport.
Dewatered conduit excavations	308-900-1 308-900-3 308-900-7 308-900-9	Oct.-Nov. 1960	1,000 (variable from 760 to 1,190)	2,300	---	110	2 months	An average of 1,000 gpm was pumped to keep an 18,000-foot-long section of conduit excavations dewatered. Darcy equation was used to calculate T; gradient was calculated from wells to conduits. Value of T is probably most representative value for Lockport as a whole.

Table 7.--Records of selected wells in the Niagara Falls area (Continued)

Well number	Owner	Year completed	Type of well	Depth of well (feet)	Depth of casing (feet)	Diameter (inches)	Depth to bedrock (feet)	Water-bearing material	Altitude above sea level (feet)	Measuring point: Description	Measuring point: Position	Water level: Below land surface (feet)	Water level: Date	Yield (gallons per minute)	Use	Remarks
304-851-1	D. Freck	1955	Drl	68	--	6	r60	Sl	575	Top of casing	0.9	18.8	10/20/60	b8	D	Anal.; H_2S; salty; may obtain some water from overlying Salina Group.
304-857-1	Wendt Dairy	1935	Drl	r35	r22	8	r20	Sl	570	--	--	--	--	r100	C, U	H_2S.
304-900-1	PASNY	1958	Drl	r120	--	12	a10	Sl	570	--	--	--	--	>100	Dw	
-4	Hooker Chemical Co.	1935	Drl	r204	r25	r6	r25	Sl	s571	--	LS	r22	2/26/36	r>350	I, A	Log; pumped at 150 gpm with 19 ft dd; rT 57; H_2S; abandoned because of poor chemical quality.
-5	do.	1907	Drl	r296	--	r8	18	Sl	s571	--	LS	r18	--	r>50	I, A	Pumped at 50 gpm with 27 ft dd; rT 51; H_2S; abandoned because of poor chemical quality and inadequate yield.
-6	do.	1910?	Drl	r300	--	r8	r18	Sl	s571	--	LS	r18	--	--	I, A	Abandoned because of poor chemical quality and inadequate yield.
304-901-1	E. I. du Pont de Nemours & Co.	1934	Drl	r185	--	r6	r12	Sl	s569	--	LS	r17	--	r750	T	
-2	do.	1934	Drl	r148	r14	24, 18	r12	Sl	s569	--	LS	r17	2/27/37	2,200	I	Log; anal.; pumped at 1,750 gpm with 78 ft dd; pumped continuously at 1,700-1,800 gpm; rT 50-53 yearly variation.
-3	do.	--	Drl	r110	--	r6	--	Sl	570	--	--	--	--	r400	T	
-4	do.	1932	Drl	r225	--	r8	r10	Sl	570	--	--	--	--	r70	T	Log; pumped at 70 gpm with 150 ft dd.
-5	Olin Mathieson Chemical Corp.	1936	Drl	r125	r25	24, 18	r10	Sl	s570	Center of pressure gage	1.0	p34	12/ 4/61	r3,450	I, U	Pumped at 3,450 gpm with 16 ft dd originally; present yield 1,700-1,800 gpm; yield affected by nearby pumping; rT 50-54.
-6	do.	1947	Drl	r125	r25	20, 19	r10	Sl	s570	--	--	--	--	2,100	I	Anal; pumped at 1,900 gpm continuously in 1961; yield affected by nearby pumping; rT 50-54.
-7	do.	1947	Drl	r125	r25	20, 19	r10	Sl	570	Center of pressure gage	LS	p78	12/ 4/61	2,100	I	Original static level reported 34 ft below LS; pumped at 2,100 gpm with 21 ft dd; rT 50-54.
-8	do.	1936	Drl	r125	--	r6	r10	Sl	570	--	--	--	--	500	T	
305-853-1	F. Lemke	--	Dug, Drl	r50	--	36, 6	r25	Qd, Sl	575	Top of brick curbing	LS	11.9	10/20/60	--	S	Cl 60 10/20/60; H_2S.
-2	R. Licht	--	Dug, Drl	--	--	36, r6	--	Sl	580	Top of well cover	.3	8.8	10/26/60	--	D	Cl 42 10/26/60; H_2S.
305-855-1	H. Moll	1952	Drl	25	--	6	--	Sl	570	Top of casing	.6	7.4	10/20/60	--	D, U	H_2S.
-2	do.	1955	Drl	20	r18	6	r19	Qsg, Sl	570	do.	1.5	11.1	10/20/60	b15	D, U	Log; aquifer is gravel at top of rock.
305-900-1	PASNY	1958	Drl	139	a20	12	a20	Sl	s570	do.	1.0	F,c106.3 d18.4	12/20/60 1/ 5/61	950	Dw, O	Anal.; pt; water level controlled by PASNY conduits; pumped at 950 gpm with 82 ft dd; H_2S.
-2	do.	1960	Drl	100	--	6	--	Sl	s583	do.	4.2	F,c95.3 d30.6	12/19/60 1/13/60	--	O	PASNY OW 149; water level controlled by PASNY conduits.
-3	Union Carbide Chemical Co.	1940	Drl	r100	r6	r6	r4	Sl	s577	Floor level	2.0	r28	1940	>100	I, A	Anal.; pumped at 86 gpm with 4 ft dd; rT 52; H_2S; salty; abandoned because of poor chemical quality.
305-902-1	A. Spallino	1959	Drl	r110	--	8	a3	Sl	595	--	--	--	--	r>100	C	
-2	do.	1961	Drl	113	3	6	3	Sl	595	Top of rock surface	-3.0	82.8	9/12/61	b20	Dr	
305-903-1	Cataract Theatre Corp.	1936	Drl	r112	r19	8	r12	Sl	570	Center of pressure gage	-7.5	33	9/12/61	>250	C	Pumped at 250 gpm with 31 ft dd; T 62 9/12/61.
-2	S. S. Kresge Co.	1938	Drl	r140	--	8	a4	Sl	570	--	--	--	--	r90	C	rT 56 11/43; inadequate in summer.
306-853-1	E. Lass	1952	Drl	49	r40	6	r40	Sl	580	Top of casing	1.0	6.3	10/26/60	--	D	Cl 45 10/26/60.

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Volume 2
Section: Determine to What Extent Project Operations Affect the Transport of Groundwater and Contaminants

MAP SHOWING THE AVAILABILITY OF GROUND WATER IN THE IMMEDIATE VICINITY OF NIAGARA FALLS, N.Y.

[NIP - General Location Maps]

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Journal of Hydrology 206 (1998) 84–97

Infiltration and hydraulic connections from the Niagara River to a fractured-dolomite aquifer in Niagara Falls, New York

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Received 24 June 1997; revised 24 December 1997; accepted 24 December 1997

Reference 2

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Volume 2
Section: Determine to What Extent Project Operations Affect the Transport of Groundwater and Contaminants

2.1. Effects of man-made structures on groundwater flow

Groundwater in the study area flows northward from the Niagara River toward man-made structures, including a production well at the west facility, and the tunnel (Fig. 4). The production well is 38 m deep and, when constructed in 1936, yielded 220 l/s and had a specific capacity (ratio of yield to drawdown) of 45 (l/s)/m. This specific capacity is much higher than the average of 6 (l/s)/m for wells completed in the Lockport Group, leading Johnston (1964) to conclude that the relatively high yield of this well resulted from both induced infiltration of river water and a high density of high-angle fractures.

The tunnel was excavated into the Lockport Group in the early 1920s to carry sewage and stormwater to the Niagara River gorge, but it now carries only stormwater and groundwater that has infiltrated from the river and the contributing area shown in Fig. 1. The tunnel is unlined and about 6 m lower than the mean river stage and 4 m beneath the water table; groundwater enters along its length where it intersects the weathered bedrock and horizontal-fracture zones. The tunnel discharge is pumped to the City of Niagara Falls wastewater-treatment plant located just of east of the barrier wall indicated on Fig. 2.

Most of the groundwater seepage into the tunnel enters the tunnel where it crosses the two NYPA aqueducts constructed within parallel bedrock excavations that are 15 m wide, and 18–49 m deep (Fig. 4). Each

Fig. 4. Hydraulic head distribution in the weathered bedrock in the vicinity of the manufacturing facilities, June 1990.

[NIP - General Location Maps]

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Treatment,

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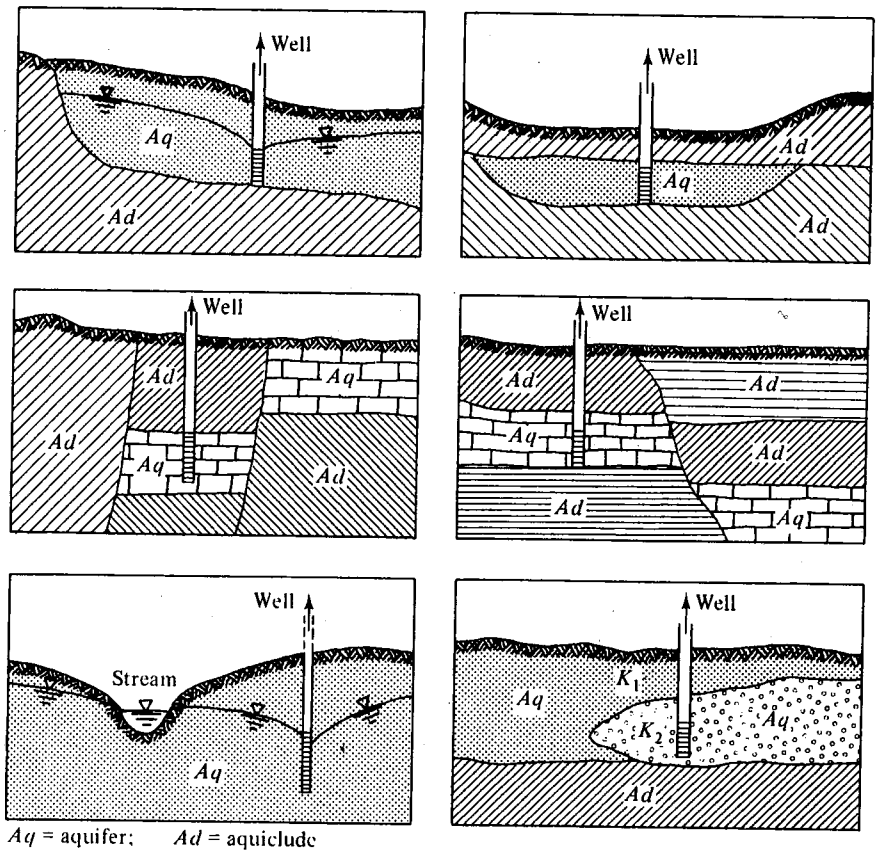
McGRAW-HILL
BOOK COMPANY
New York
St. Louis
San Francisco
Auckland
Bogotá
Hamburg
London
Madrid
Mexico
Montreal
New Delhi
Panama
Paris
São Paulo
Singapore
Sydney
Tokyo
Toronto

Reference 3

JACOB BEAR
Department of Civil Engineering
Technion—Israel Institute of Technology
Haifa
Israel

Hydraulics of Groundwater



Aq = aquifer; Ad = aquiclude

Figure 8-22 Boundaries resulting from geological discontinuities or from streams.

The principles of the method of images are summarized in Fig. 8-23. The location of a well which acts as an image well to a real one is a mirror image, with respect to the straight line boundary, of the real well. In Fig. 8-23a, for a constant potential boundary, we see that the image of a pumping well, $+Q_w$, is a recharge well, $-Q_w$, having the same strength. For an impervious boundary (Fig. 8-23b), the image well has the same sign. Several examples are given below. In examples 1 and 2, a physical interpretation is given of the effect of the image wells rather than a mathematical justification (Bear, 1972, p. 304). In all cases, unless otherwise specified, pumping wells are (mathematical) point sinks and recharge wells are (mathematical) point sources. In some cases, the radius of the well, r_w, is taken into account. We shall consider only flow to a fully penetrating well in a homogeneous isotropic aquifer of constant thickness. As we are not interested in the piezometric head ϕ ($= -\infty$ at a point sink), but in the drawdown s ($= \phi_0 - \phi = +\infty$ at a point sink), the constant discharge rate of a pumping well will be taken as $+Q_w$, whereas the constant recharge rate of a recharge well will be $-Q_w$.

Example 1 Steady flow to a single well located at point $(x_0, 0)$ in a semi-infinite aquifer, $x > 0$ (Fig. 8-24). The line $x = 0$ is a boundary of zero draw-

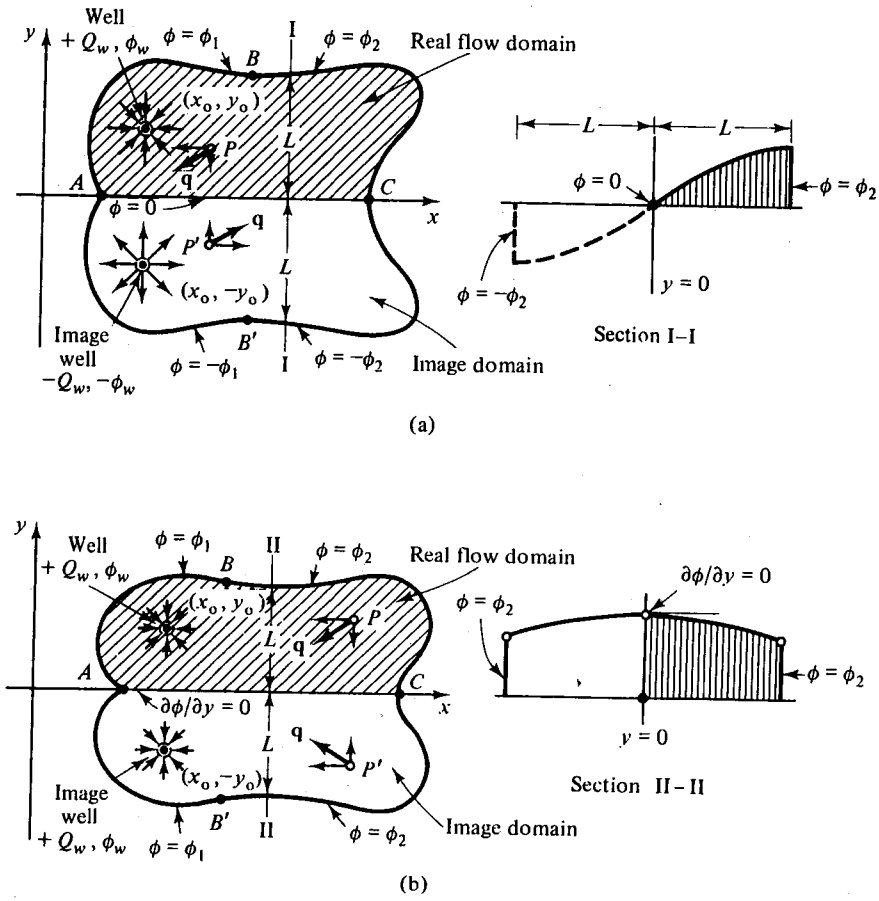


Figure 8-23 The method of images. (a) Image domain for $\phi = 0$ along $y = 0$. (b) Image domain for $\partial\phi/\partial y = 0$ along $y = 0$.

down ($s = 0$; equipotential boundary). It corresponds to an unclogged stream, with a practically horizontal water table, in contact with the aquifer.

The fictitious field here is the infinite field, $-\infty < x < +\infty$, with two wells: the real pumping well $+Q_w$ at $(x_0, 0)$ and a recharge (negative) well $-Q_w$ at $(-x_0, 0)$. In other words, the real semi-infinite field with a single well is replaced by a fictitious infinite field with two wells. Because of symmetry, at every point along $x = 0$ $(r = r')$ we have $s = 0$. Thus the boundary condition along the stream is satisfied by the combined drawdown and build-up of the two wells in the infinite field.

By superposition (Sec. 5-7), the drawdown s at any observation point (x, y) in the real region, $x > 0$, is given by the sum of drawdowns (actually drawdown plus build-up) of the two wells, each operating in the fictitious infinite field. The single well equation for this case is (8-6). The combined

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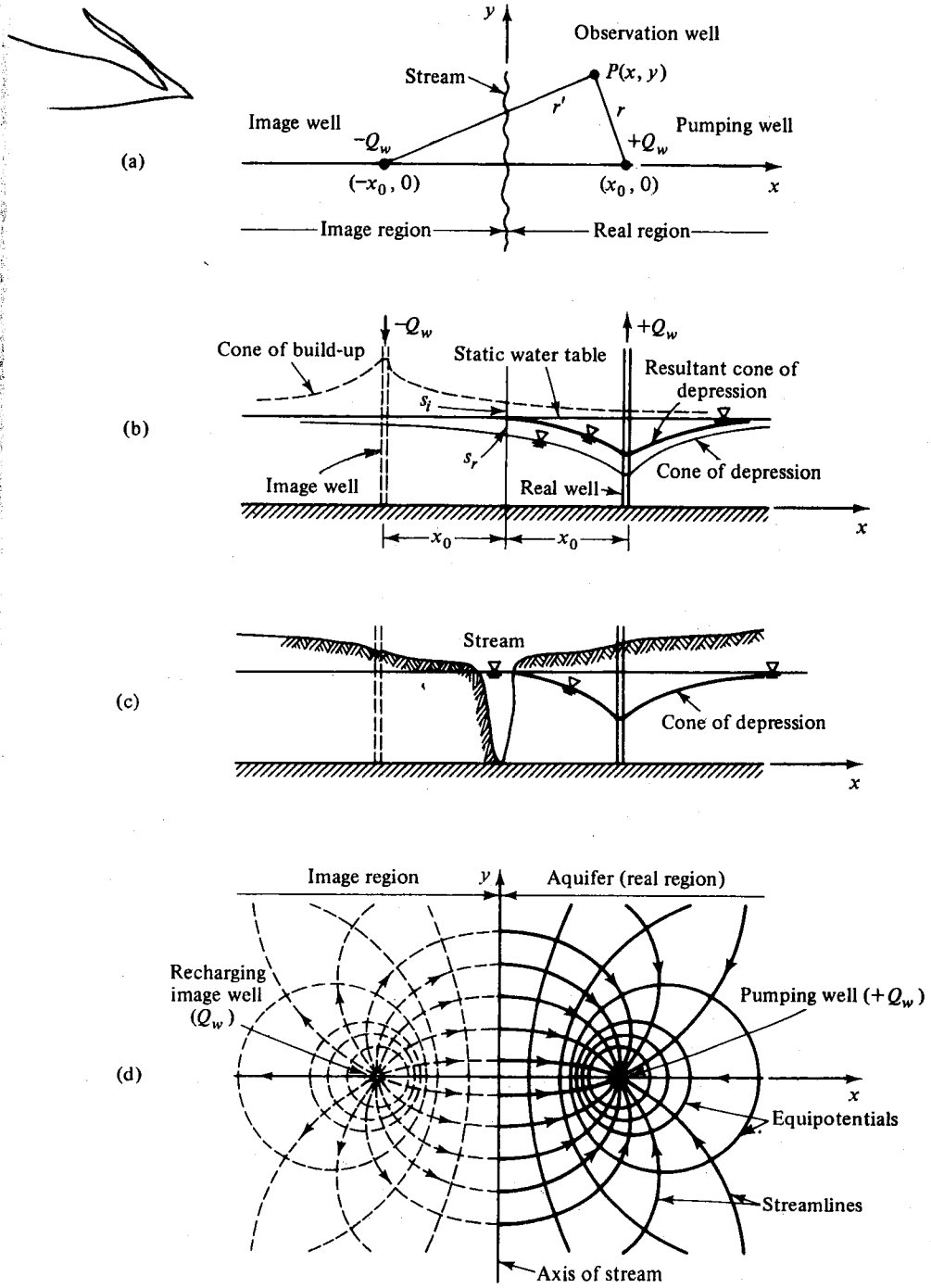

Figure 8-24 The method of images applied to a well near a recharge boundary.

drawdown is, therefore

$$s(x, y) = \phi_0 - \phi(r) = \frac{Q_w}{2\pi T} \ln \frac{R}{r} + \frac{(-Q_w)}{2\pi T} \ln \frac{R}{r'} = \frac{Q_w}{2\pi T} \ln \frac{r'}{r}$$

$$= \frac{Q_w}{4\pi T} \ln \frac{(x + x_0)^2 + y^2}{(x - x_0)^2 + y^2} \tag{8-154}$$

where r and r' are distances from $P(x, y)$ to the real pumping well and to the image well, respectively, and R is the radius of influence of each well when it operates in an infinite aquifer (assuming $R > x_0$; otherwise the boundary will not affect the flow pattern). It can easily be verified that (8-154) (i) satisfies the Laplace equation (8-1) in the domain $x > 0$, (ii) satisfies the boundary conditions $s = 0$ along $x = 0$.

Lines of equal drawdown (s = const.) are the circles $(r'/r)^2 = C = \exp(4\pi Ts/Q_w)$ of radii $2x_0\sqrt{C}/(C - 1)$ and centers at $x = x_0(C + 1)/(C - 1)$, $y = 0$.

It is of interest to note that from (8-154) it follows that as $r, r' \to \infty$, $\phi(r) \to 0$. In this case, unlike (8-6), steady flow is possible as the stream along $x = 0$ serves as a source of water.

The above considerations are exact for wells which are mathematical point sinks and sources, and approximate for actual wells with a finite radius r_w, as long as $r_w \ll x_0$. In the latter case, theoretically, the circular pumping well's circumference is no more an equipotential surface. However, for all practical purposes the well's face is an equipotential surface. Consider a point $y = 0$, $x = r_w + x_0$, with $r_w \ll x_0$. Then from (8-154) it follows that

$$s(r_w) \equiv s_w \approx \frac{Q_w}{2\pi T} \ln \frac{2x_0}{r_w} \tag{8-155}$$

Comparing (8-155) with (8-6) with $s_w = \phi_0 - \phi_w$, we may interpret the distance $2x_0$ as a radius of influence of a well near an equipotential boundary. The flownet in the region $x > 0$ is given by the right-hand side of Fig. 8-24d, obtained as a superposition of the flownets corresponding to a source and a sink each operating alone in an infinite field.

Although this example deals with a confined aquifer, (8-154) and (8-155), are good approximations also for a phreatic aquifer with relatively small drawdowns ($s_w \ll H$). It is with this approximation in mind that we demonstrate this case by Fig. 8-24 which actually shows flow in a phreatic aquifer; the effect of the presence of a stream is better understood in this type of aquifer.

Finally, as the stream along $x = 0$ is the only source of water in the field $x > 0$, it is interesting to determine the portion of the pumped water taken from the stream between two points, say at $y = -d$ and $y = +d$. Using (8-154) for $\phi(r)$, we obtain

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Simulated Three-Dimensional Ground-Water Flow in the Lockport Group, a Fractured-Dolomite Aquifer near Niagara Falls, New York

By RICHARD M. YAGER

Prepared in cooperation with the
U.S. Environmental Protection Agency

Reference 4

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ft was decreased by a factor of 100 to reflect the finding that fractures are generally closed at these depths, in accordance with results of slug tests conducted in individual fracture zones and discussed earlier. In the bottom model layer, which represented the Gasport Limestone, a depth of 150 ft was used to delineate areas of low transmissivity because open fractures were penetrated at depths below 80 ft in this unit.

The maximum transmissivity of the entire Lockport Group can be obtained as the sum of the transmissivity of the model layers. The model layers represent the weathered bedrock and nine regional fracture zones; therefore, the maximum transmissivity is

$$220 + (9 \times 99) = 1{,}100 \text{ ft}^2/\text{d}.$$

The transmissivity is less than this value in many parts of the modeled area that contain fewer than nine regional fracture zones. In the northern part of the area near the Niagara Escarpment, for example, the Lockport Group is thinner and the stratigraphic contacts fewer than in the southern part, where the depth to several of the stratigraphic contacts exceeds 80 ft, and the transmissivity of individual fracture zones is less than 1 ft^2/d. The maximum transmissivity of the Lockport Group, excluding the weathered bedrock, is 890 ft^2/d, greater than the median value of 700 ft^2/d computed from slug and constant-head injection tests conducted in 27 boreholes within the modeled area. (Values ranged from 1 to 1,800 ft^2/d.)

Vertical Hydraulic Conductivity

The vertical hydraulic conductivity of the glacial sediments in the modeled area was estimated to be 6.6×10^{-3} ft/d, except beneath the NYPA reservoir in Niagara Falls, where it is assumed to be lower by a factor of 10 as a result of consolidation of the sediments during construction of the reservoir. The unconsolidated sediments beneath the Niagara River have the same origin as the glacial sediments and were therefore assigned the same value of vertical hydraulic conductivity. This value is somewhat greater than the median hydraulic conductivity value (2.0×10^{-3} ft/d) mentioned earlier but is within the range of reported values (2×10^{-5} to 9×10^{-1} ft/d).

The vertical hydraulic conductivities of the weathered bedrock and of the unweathered bedrock that separates the horizontal-fracture zones in the Lockport Group were estimated to be 1.3×10^{-2} ft/d and 1.1×10^{-3} ft/d, respectively. These values represent the effective vertical hydraulic conductivity of a network of high-angle fractures between (1) the weathered bedrock and underlying horizontal-fracture zones, and (2) between adjacent fracture zones, respectively. The vertical hydraulic conductivity along bedrock outcrops, where the density of joints is assumed to have increased through stress-release fracturing, was specified to be 10 times higher. To determine the effective horizontal-to-vertical anisotropy of the unweathered bedrock in model layers 6 through 10, each layer was considered to be about 15 ft thick and to contain two fracture zones, on average. The transmissivity of two fracture zones equals 198 ft^2/d; dividing this by 15 ft yields an effective horizontal conductivity of 13 ft/d and an effective anisotropy of 12,000:1. This ratio is much higher than the 70:1 ratio estimated from results of cross-hole tests, but the cross-hole tests were conducted within an area assumed to contain a greater density of high-angle fractures than other areas. No other estimates from field tests are available for comparison.

Recharge

The modeled area was divided into two zones—an urban zone and a rural zone consisting of an upland and a lowland zone (fig. 7)—and the rate of recharge to the weathered bedrock in each was estimated. The zones were delineated according to surface-drainage characteristics that could affect the rate of recharge. The urban zone was within the city of Niagara Falls west of the NYPA conduits, where the percentage of impervious surfaces is greater than in other areas and produces a greater volume of surface runoff. The surface runoff flows through storm sewers, which are brick-lined tunnels that intersect the bedrock near topographic highs; therefore storm runoff could enter the weathered bedrock directly in these areas. Another source of recharge could be conveyance loss from the municipal water supply; this is estimated to total 13.6 Mgal/d or an average of 28 in/yr over the urban area (G.H. Grose, City of Niagara Falls, oral commun., 1992).

The rate of recharge to the weathered bedrock in each model cell was computed by dividing the maximum recharge rate estimated through regression by the thickness of the overlying glacial sediments in each cell. Thus, the actual recharge rate in each model cell was inversely related to sediment thickness. This is consistent with Darcy's law:

$$q = k_v i \qquad (5)$$

unit area (L/T^{-1}),

k_v is vertical hydraulic conductivity (L/T^{-1}), and

i is the hydraulic gradient, $\Delta h/\Delta l$ (dimensionless).

When recharge to the weathered bedrock is

provides estimates of the reliability of estimated values and the correlation between model parameters. This information is used to improve the calibration through (1) identification of parameters to which the model was insensitive, and (2) grouping of correlated parameters.

The number of parameters specified in the model is summarized in table 4. Hydraulic properties of the aquifer system were represented by 27 model parameters, and an additional 6 parameters were specified to represent manmade structures. Initial simulations were conducted to determine the sensitivity of model-computed heads and flows to changes in the parameter values representing aquifer properties. The number of model parameters estimated during calibration was then decreased by assigning fixed values to those parameters to which the *SSE* was insensitive; for example, the transmissivities of model layers 3 to 5 representing the Vernon Shale and the Guelph Dolomite (fig. 2). The number of parameters was decreased further by grouping those that were likely to be affected by the same geologic processes. For example, the transmissivities of model layers 6 through 10, which represent the nine regional horizontal-fracture zones (fig. 2), were replaced by a single parameter representing the transmissivity of a single fracture zone because the range of transmissivity values estimated from hydraulic tests was relatively small. The transmissivity of each layer was then obtained by multiplying this parameter by the number of fracture zones represented by the layer. The calibrated parameter set representing the aquifer system contained 15 values, 7 of which were estimated through calibration. The other parameters representing aquifer properties, and the parameters representing manmade structures, were held constant during the regression.

Estimates of Aquifer Properties

The values of the seven aquifer properties estimated by nonlinear regression (table 4) are listed in table 5. In the regression, transmissivity and vertical hydraulic conductivity were log-transformed to ensure that the estimated values remained positive (Hill, 1992). Transmissivity values were also estimated for model boundaries representing the Niagara Escarpment and the Niagara River Gorge, but optimal values were not obtained because the regression procedure did not converge when these parameters were included in the regression. Apparently, the *SSE* was insensitive to these parameters as long as the values were close to the fixed value specified in the calibrated parameter set.

Transmissivity

The transmissivity of the weathered bedrock was estimated to be 220 ft^2/d—a value less than the median value estimated from hydraulic tests conducted in this study (600 ft^2/d) in which a saturated thickness of 15 ft is assumed, but within the range of reported values for aquifer tests (20 to 3,000 ft^2/d). Transmissivity in reaches along the Niagara riverbed where the bedrock crops out (fig. 3A) was assumed to be 2,000 ft^2/d, in accordance with results of an aquifer test conducted in this area by Legette, Brashears and Graham, Inc. (1979).

The transmissivity of each horizontal-fracture zone within the Lockport Group was estimated to equal 99 ft^2/d, nearly the median value obtained from hydraulic tests (100 ft^2/d). The transmissivity in parts of model layers where the depth below the bedrock surface exceeded 80

Table 4. Parameters representing aquifer properties specified in the Niagara Falls model

[Dash indicates no estimate was made]

Model Parameter	Number in initial set	Number in calibrated set	Number estimated by nonlinear regression
Transmissivity	11	5	2
Vertical hydraulic conductivity	11	4	3
Hydraulic conductivity at boundaries	4	3	-
Recharge	1	3	2
Total	27	15	7

Table 5. Estimates of aquifer properties obtained through nonlinear regression

[ft^2/d = feet squared per day; ft/d = feet per day]

Property	Value
Transmissivity*, ft^2/d:	
weathered bedrock	220
horizontal fracture zones	99
Vertical hydraulic conductivity*, ft/d:	
glacial sediments	6.6×10^{-3}
weathered bedrock	1.3×10^{-2}
unweathered bedrock	1.1×10^{-3}
Average recharge rate, ft/d:	
urban areas	2.5×10^{-3}
rural areas	1.2×10^{-4}

*Log-transformed parameter values.

PROJECT: NYPA - Relicensing Services
SUBJECT: Estimate of Weir Flow in Pump Station A

1. PURPOSE

The purpose of this calculation is to estimate flow rate through the weirs connecting the Power Authority conduits to the Pump Station A (south pump station), as observed during the field visit of June 13, 2002.

2. CALCULATIONS

During the visit flow was observed in the weir connecting the PS with the east conduit. The weir could not be accessed for measurements; therefore, the calculations will be based on visual observations. The outlet of the west weir could not be observed. However, it was flowing as indicated by the water turbulence visible at the inlet baffle. It will be assumed that both weirs conveyed the same flows.

The east weir consists of two broad-crested parts, each approximately 1.5 foot wide (L-dimension in equation 5.10 of reference 1) and 1 ft broad (b-dimension on figure 5.6 and "breadth of weir crest" in table 5.1 of reference 1). Flow depth was observed to be approximately 1 inch (although it is difficult to assess the accuracy of this observation).

For small depths (i.e. less than 15 cm) the weir coefficient C in equation 5.1 has been found to be variable for different experiments (see page 5.24 of reference 1). Therefore, the accuracy of flow estimates for low heads, such as that observed here, is questionable.

The lowest head for which the values of C are cited is 10 cm. For the head of 10 cm and 30 cm weir breadth C = 1.5 (table 5.1 of reference 1). Value of C decreases with the decrease in depth. Based on an extrapolation, use C = 1.4 for the depth of 0.025 m (1 inch).

For a single part of the weir, 1.5 foot long (0.045 m):

$Q = C\ L\ H^{3/2}$ (equation 5.10, reference 1)

$Q = 1.4*0.45*0.025^{3/2}$
$= 0.0025\ m^3/s = 57{,}000$ gal/day

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Assuming the same flow in each of the four weir parts (2 in both east and west weirs), the total flow is:

$$Q_{tot} = 4Q = 4*57,000 = 2.3*10^5 \text{ gal/day (160 gpm)}$$

3. REFERENCES

1. Handbook of Hydraulics
   Brater et al
   McGraw-Hill, 1996

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Related Titles in Water and Water Resources

AWWA • WATER QUALITY AND TREATMENT
AWWA • WATER TREATMENT MEMBRANE PROCESSES
Dodson • STORM WATER POLLUTION CONTROL: INDUSTRY AND CONSTRUCTION NPDES COMPLIANCE
Grigg • WATER RESOURCES MANAGEMENT: PRINCIPLES, REGULATIONS, AND CASES
Maidment • THE HANDBOOK OF HYDROLOGY
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$$Q_1 = 0.61 \times (0.24)^{2.0} = 0.035 \text{ m}^3/\text{s}$$

$$\left(\frac{H_2}{H_1}\right)^n = \left(\frac{12}{24}\right)^{2.0} = 0.25$$

$$\frac{Q}{Q_1} = 0.89 \text{ (from curve 3)}$$

$$Q = 0.89 \times 0.035 = 0.031 \text{ m}^3/\text{s}$$

WEIRS NOT SHARP-CRESTED

Sharp-crested weirs, if used to obtain discharge records for comparatively long periods, are difficult to maintain. The crest is likely to become dulled or rusted, or it may be damaged by floating ice and debris. Under such conditions it may be advisable to use a weir with a thicker crest. It is often convenient to use an existing weir or overflow dam for measuring discharges. Weirs of various dimensions and shapes are used in hydraulic structures. When designing such structures it is important to be able to estimate approximately the discharges over these weirs (see Sec. 2).

The amount of water that will pass over a weir, not sharp-crested, depends to a large extent on its sectional form and the shape of its crest, and it is necessary to resort to experiment to determine the discharge over any particular shape. Inasmuch as the number of shapes of weirs is unlimited, it is not to be expected that experimental data are or ever will be available for them all. There are available, however, the results of several series of experiments on weirs of different cross sections which furnish much valuable information for determining discharges over weirs of the same or similar shapes.

The available experiments are not extensive enough for a comprehensive study of the effect of the velocity of approach on weirs not sharp-crested. The coefficients given in this chapter probably apply more accurately where the velocity of approach is not high. From a consideration of sharp-crested weirs it appears that discharges for high velocities of approach will be somewhat greater than given by Eq. (5.10).

Since experimental conditions will seldom be duplicated in practice, it is probable that errors may result from the general use of the coefficients given in this chapter. Extreme accuracy, however, is not

always necessary in a design where uncertainty as to the exact quantity of water to be provided for may exist.

The problem of establishing a fixed relation between head and discharge for weirs not sharp-crested is complicated by the fact that the nappe may assume a variety of forms in passing over the weir. For each modification of nappe form there is a corresponding change in the relation between head and discharge. The effect of this condition is more noticeable for low heads.

The nappe may undergo several of these modifications in succession as the head is varied. The successive forms that appear with an increasing stage may differ from those pertaining to similar stages with a decreasing head. The head at which the changes of nappe form occur varies with the rate of change of the head, whether increasing or decreasing, and with other conditions.

Among weirs of irregular section there is a large class for which, from the nature of their section, the nappe can assume only one form unless drowned. Such weirs, it is suggested, may, if properly calibrated, equal or exceed the usefulness of the thin-edged weir for purposes of stream gauging because of their stability of section and because the thin-edged weir is not free from modifications of the nappe form for low heads.

Broad-Crested Weirs

A weir approximately rectangular in cross section is termed a broad-crested weir. Unless otherwise noted, it will be assumed to have vertical faces, a plane level crest, and sharp right-angled corners. Figure 5.6 represents a broad-crested weir of breadth b. The head H should be measured at least $2.5H$ upstream from the weir. Because of the sharp upstream edge, contraction of the nappe occurs. Surface contraction begins at a point slightly upstream from the weir.

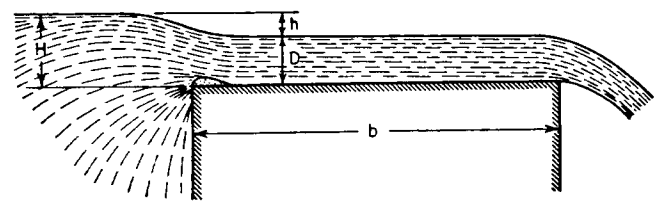

FIGURE 5.6 Broad-crested weir.

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The discharge over broad-crested weirs is usually expressed by the equation

$$Q = CLH^{3/2} \tag{5.10}$$

Experiments on broad-crested weirs have been performed by Blackwell, Bazin, Woodburn, the U.S. Deep Waterways Board, and the U.S. Geological Survey. These experiments cover a wide range of conditions as to the head, breadth, and height of the weir. Considerable discrepancy exists in the results of the different experiments, especially for heads below 15 cm. For heads from 15 to about 45 cm the coefficient becomes more uniform, and for heads from 45 cm to the point at which the nappe becomes detached from the crest, the coefficient as given by the different experiments is nearly constant and equals approximately 1.45. When the head reaches one to two times the breadth of the weir, the nappe becomes detached and the weir becomes essentially sharp-crested. The effect on discharge of the roughness of the crest can be computed by applying the principles of flow in open channels.

In order to put the results of the various experiments in a form convenient for use, Table 5.1 has been prepared by graphically interpolating the results of all experiments, giving more weight to those of the U.S. Geological Survey. This table should give values of C within the limits of accuracy of the original experiments.

The effect of rounding the upstream corner of a broad-crested weir is to increase the discharge for a given head. Table 5.2 lists experiments on this type of weir. The effect of rounding the upstream corner on a radius of 10 cm is to increase the coefficient C by approximately 9 percent. Coefficients by Woodburn[19] for flat weirs with rounded upstream corners and gently sloping crests are given in Table 5.3*a*.

Blackwell experimented with three weirs 90 cm broad, having a slightly inclined crest. Inclining the crest appears to increase the coefficient of discharge slightly. The results of these experiments are rather inconsistent, especially for low heads. Table 5.3*b* has been compiled from Blackwell's experiments. Sloping the top of a broad-crested weir makes it similar to a triangular weir with the upstream face vertical. The coefficients given in Tables 5.4 and 5.5 will therefore be helpful in selecting coefficients for broad-crested weirs with sloping crests.

If the upstream corner of a weir is so rounded as to prevent contraction entirely, and if the slope of the crest is as great as the loss of head due to friction, flow occurs at critical depth, and discharge is given by the rational formula

TABLE 5.1 Values of C in Formula $Q = CLH^{3/2}$ for Broad-Crested Weirs

Measured head, m	Breadth of crest of weir, m										
	0.15	0.20	0.30	0.45	0.60	0.75	0.90	1.20	1.50	3.00	4.50
0.10	1.61	1.55	1.50	1.46	1.44	1.44	1.43	1.40	1.38	1.41	1.49
0.20	1.70	1.60	1.52	1.46	1.44	1.44	1.48	1.49	1.49	1.49	1.49
0.30	1.83	1.73	1.65	1.52	1.47	1.46	1.46	1.48	1.48	1.48	1.45
0.40	1.83	1.80	1.77	1.61	1.53	1.48	1.46	1.46	1.46	1.48	1.46
0.50	1.83	1.82	1.81	1.70	1.60	1.52	1.48	1.47	1.46	1.46	1.45
0.60	1.83	1.83	1.82	1.67	1.57	1.52	1.50	1.48	1.46	1.46	1.45
0.80	1.83	1.83	1.83	1.81	1.70	1.60	1.55	1.50	1.48	1.46	1.45
0.90	1.83	1.83	1.83	1.83	1.77	1.69	1.61	1.51	1.47	1.46	1.45
1.0	1.83	1.83	1.83	1.83	1.83	1.76	1.64	1.52	1.48	1.46	1.45
1.2	1.83	1.83	1.83	1.83	1.83	1.83	1.70	1.54	1.49	1.46	1.45
1.4	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.59	1.51	1.46	1.45
1.5	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.70	1.54	1.46	1.45
1.7	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.83	1.59	1.46	1.45

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PROJECT: NYPA - Relicensing Services
SUBJECT: Flow in Blast Zone vs Flow in Conduit Drainage Pipes

1. PURPOSE

The purpose of this calculation is to compare the estimated flows in the pipes of the conduit drainage system with the potential flows in the rock fractured by blasting during the construction of the conduits.

2. PROBLEM DESCRIPTION

The conduit drainage system consists of four pipes, installed under the floor of each of the two conduits (total of eight pipes). During the construction of the conduits, rock blasting with explosives was used to excavate conduit trenches. Therefore, water may flow not only in the drainage pipes, but also in the highly fractured zone around the conduits created by the blasting. In this calculation, the magnitudes of both flows are compared.

3. CALCULATIONS

3.1 Flows in Drainage Pipes

There are three wells located in the study area (FST/conduits crossing), and screened both within the potential blast zone and immediately adjacent to the conduit drainage system. Head in these wells has been shown to represent both the drainage pipes and the aquifer immediately adjacent to the pipes (Appendix N, calculation entitled *Estimate of Flow Reaching FST via Conduit Drains*). Wells GW03-015 and GW03-017 are located on north and south of the crossing, respectively, while the well GW03-016 is located essentially at the crossing. During the study, average gradients between these wells were as follows (Table 5 of Appendix M):

North of crossing (GW03-016 to –015) $i = 3*10^{-5}$ to $2*10^{-4}$

South of crossing (GW03-016 to –017) $i = 4*10^{-4}$ to $6*10^{-4}$

In order to cover the entire likely range of gradients, investigate values between $1*10^{-5}$ and $1*10^{-3}$.

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The conduit drainage system consists four pipes installed under each of the conduits (2 semicircular pipes and two rectangular pipes). There are two conduits; therefore, the entire drainage system consists of eight pipes – four are semicircular and four are rectangular. Methodology for estimating flows in the pipes of the conduit drainage system has been established in Appendix N, calculation entitled *Estimate of Flow Reaching FST via Conduit Drains*. Using that methodology, following flows were obtained (page 5):

Gradient (i) [-]	Flow Rate (Q_{pipes}) [gpm]
$1*10^{-5}$	955
$5*10^{-5}$	2,192
$1*10^{-4}$	3,196
$5*10^{-4}$	7,110
$1*10^{-3}$	10,234

3.2 Flow in the Blast Zone

Assume that the blast zone reaches 100 feet from the conduit walls (reference 1). The conduits are approximately 50 ft wide. Their centerlines are located at approximately 200 feet apart. From that, the width of the blast zone is:

$$W_{blast\ zone} = 100 + 200 + 100 - 2*50 = 300 \text{ ft}$$

Results of packer tests are available for one location within the blast zone (well GW03-013). See calculations attached at the end of this appendix. Values of hydraulic conductivity for different fracture zones at that location are between 0.03 and 226 ft/d. The thickness of the Lockport aquifer along the conduits is on the order of 100 ft. To estimate transmissivity, use the value of 150 ft.

$$T = 0.03*150 \text{ to } 226*150 = 4.5 \text{ to } 33{,}900 \text{ ft}^2/\text{d}$$

To calculate the flow in the blast zone, use the higher-end

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value increased by one order of magnitude.

$$T_{blast\ zone} = 10*33,900\ ft^2/d = 339,000\ ft^2/d$$

Hydraulic gradients, common to both the drainage pipes and the blast zone, were established in Section 3. Using gradients from that range, flow rates in the blast zone are estimated as follows:

$$Q_{blast\ zone} = W_{blast\ zone}\ T_{blast\ zone}\ i$$

$$Q_{blast\ zone}(i = 1*10^{-5}) = 300*339,000*(1*10^{-5}) = \\ = 1,017\ ft^3/d = 5\ gpm$$

$$Q_{blast\ zone}(i = 5*10^{-5}) = 300*339,000*(5*10^{-5}) = \\ = 5,085\ ft^3/d = 26\ gpm$$

$$Q_{blast\ zone}(i = 1*10^{-4}) = 300*339,000*(1*10^{-4}) = \\ = 10,170\ ft^3/d = 53\ gpm$$

$$Q_{blast\ zone}(i = 5*10^{-4}) = 300*339,000*(5*10^{-4}) = \\ = 50,850\ ft^3/d = 265\ gpm$$

$$Q_{blast\ zone}(i = 1*10^{-3}) = 300*339,000*(1*10^{-3}) = \\ = 101,700\ ft^3/d = 530\ gpm$$

3.2 Flow Comparison

Flows within the drainage pipes and the blast zone are related as follows:

Gradient i [-]	Flow Ratio $Q_{blast\ zone}/Q_{pipes}$ [-]
$1*10^{-5}$	5/955 = 0.005
$5*10^{-5}$	26/2,192 = 0.012
$1*10^{-4}$	53/3,196 = 0.017
$5*10^{-4}$	265/7,110 = 0.037
$1*10^{-3}$	530/10,234 = 0.051

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4. SUMMARY

Flows in the conduit drainage pipes and in the potential blast zone surrounding the drainage system were compared at gradients encompassing the entire range observed during the study. Flow rates within the pipes were found to be approximately two orders of magnitude higher ($Q_{blast\ zone} \approx 0.5\%$ to 5% of Q_{pipes}). Therefore, it can be concluded that the flow occurring along the conduits takes place essentially within the drainage pipes.

5. REFERENCES

1 Effect of Niagara Power Project on Ground-Water Flow in the Upper Part of the Lockport Dolomite in the Niagara Falls Area, New York
T.S. Miller, W.M. Kappel
U.S. Geological Survey
Water-Resources Investigations Report 86-4130

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Calculates head losses in pipes under pressure

kinematic viscosity of water	ni =	1.41E-05	ft^2/sec
entrance loss coefficient	Ken =	0	
sum of local loss coefficients	Kloc =	0	
exit loss coefficient	Kex =	0	
pipe roughness	eps =	0.0098	ft

head loss del h = [Ken + Kex + f(L/D)] (V^2/2g)

friction factor

f = 1.325 / {ln[(eps/D)/3.7 + 5.74/Re^0.9]}^2 for turbulent flow, Re>4,000 Swamme and Jain equation
f = 64/Re for laminar flow, Re<2,000
f = ? f is not defined for transitional flow

Pipe	nominal length L [ft]	flow Q [ft^3/sec]	pipe diameter D [in]	pipe area A=PiD^2/4 [ft^2]	flow velocity V=Q/A [ft/sec]	velocity head V^2/2g [ft]	Reynold's number Re=VD/ni [-]	relative roughness eps/D [-]	flow regime	friction factor f(Re,eps/D) [-]	total loss del h [ft]	gradient del h / L [-]
semicirc	10,000	0.225	15	1.57	0.14	0.0003	1.3E+04	8E-03	turbulent	0.0405	0.10	1.0E-05
rect	10,000	0.307	16.5	2.04	0.15	0.0004	1.5E+04	7E-03	turbulent	0.0390	0.10	1.0E-05
Total flow in 4 rectangular and 4 semi-circular pipes Qtot = 4(Qsemicirc + Qrect) in gpm:												**955**
semicirc	10,000	0.511	15	1.57	0.33	0.0016	2.9E+04	8E-03	turbulent	0.0378	0.50	5.0E-05
rect	10,000	0.710	16.5	2.04	0.35	0.0019	3.4E+04	7E-03	turbulent	0.0364	0.50	5.0E-05
Total flow in 4 rectangular and 4 semi-circular pipes Qtot = 4(Qsemicirc + Qrect) in gpm:												**2,192**
semicirc	10,000	0.750	15	1.57	0.48	0.0035	4.2E+04	8E-03	turbulent	0.0370	1.05	1.0E-04
rect	10,000	1.030	16.5	2.04	0.50	0.0040	4.9E+04	7E-03	turbulent	0.0357	1.03	1.0E-04
Total flow in 4 rectangular and 4 semi-circular pipes Qtot = 4(Qsemicirc + Qrect) in gpm:												**3,196**
semicirc	10,000	1.660	15	1.57	1.06	0.0174	9.4E+04	8E-03	turbulent	0.0360	4.99	5.0E-04
rect	10,000	2.300	16.5	2.04	1.13	0.0197	1.1E+05	7E-03	turbulent	0.0348	5.00	5.0E-04
Total flow in 4 rectangular and 4 semi-circular pipes Qtot = 4(Qsemicirc + Qrect) in gpm:												**7,110**
semicirc	10,000	2.400	15	1.57	1.53	0.0363	1.4E+05	8E-03	turbulent	0.0357	10.36	1.0E-03
rect	10,000	3.300	16.5	2.04	1.62	0.0406	1.6E+05	7E-03	turbulent	0.0346	10.21	1.0E-03
Total flow in 4 rectangular and 4 semi-circular pipes Qtot = 4(Qsemicirc + Qrect) in gpm:												**10,234**

semicirc - semi-circular pipe
rect - rectangular pipe

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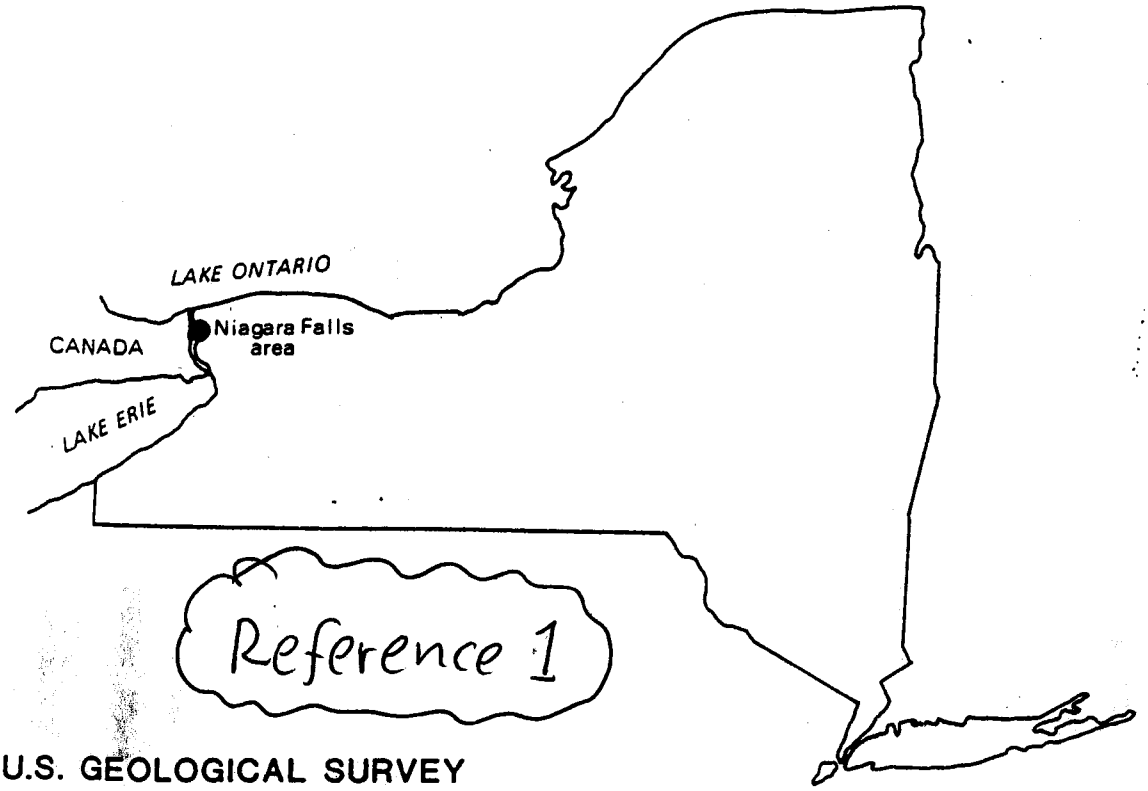
pg 7

Effect of Niagara Power Project on Ground-Wate Flow in the Upper Part of the Lockport Dolomite Niagara Falls Area, New York



Reference 1

U.S. GEOLOGICAL SURVEY
Water-Resources Investigations
Report 86-4130

Prepared in cooperation with the

U.S. ENVIRONMENTAL PROTECTION AGENCY

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

y

Ground Water

Occurrence

The Lockport Dolomite is the principal source of ground water in the Niagara Falls area. Although the effective primary porosity is negligible, significant ground-water movement occurs through secondary openings such as bedding joints (planes), vertical joints (fractures), and solution cavities, described below. The upper 25 ft of the Lockport has a greater potential for movement of ground water (and contaminants) than the deeper parts because it has more interconnected vertical and horizontal joints that have been widened by solutioning, which allows direct entry of contaminants from surface sources.

Bedding planes.--The bedding planes, which transmit most of the water in the Lockport (Johnston, 1964), are relatively continuous fracture planes parallel to the natural layering of the rock. These openings were caused by crustal movements and the expansion of the rock during removal of weight by erosion of overlying rock units and by retreat of the glaciers. Johnston (1964) identified seven water-bearing zones, which consist either of a single open-bedding plane or an interval of rock layers containing several open planes. The top 10 to 25 ft of rock may contain one or two significant bedding planes; these are probably connected by vertical joints, which are abundant in the upper part of the formation.

The lower part of the Lockport Dolomite contains fewer water-bearing bedding planes that are interconnected by vertical joints. These deeper water-bearing zones are underlain and overlain by essentially impermeable rock. Each water-bearing bedding plane can be considered a separate and distinct artesian aquifer (Johnston, 1964). The hydraulic head within each water-bearing zone is lower than that in the zone above it; this indicates a downward component of ground-water flow.

Vertical joints.--Vertical joints in the Lockport Dolomite are not significant water-bearing openings except (1) in the upper 10 to 25 ft of rock, (2) within about 200 ft of the Niagara River Gorge, and (3) in the vicinity of the buried conduits. Physical and chemical weathering have increased the number, continuity, and size of vertical fractures in the upper part of the Lockport. The major joints, oriented N 70°E to N 80°E, are generally straight, spaced 10 to 80 ft apart, and penetrate 10 to 25 ft (American Falls International Board, 1974). Intersecting the major joint set are less extensive high-angle joints that are confined to particular beds. Vertical joints become narrower, less numerous, and less connected with depth.

In addition to the major regional fractures, extensive tension-release fractures were formed near the gorge wall by the erosion and removal of the supporting rock mass in the gorge; openings up to 0.3 ft wide have been observed (American Falls International Board, 1974). Less developed tension-release joints and blasting-originated joints are common along the twin conduits. These fractures probably extend less than 100 ft from the trench walls.

Solution cavities.--Solution cavities are formed by the dissolution of gypsum pockets and stringers by percolating ground water. These cavities

1. PURPOSE:

The purpose of this calculations is to evaluate the approximate range of hydraulic conductivities for the Lockport dolomite in the immediate vicinity of the NYPA conduits. For this analysis, conductivity estimates are based on the results of pressure (i.e. packer) tests performed in the deep corehole drilled at piezometer cluster location GW03-016 near the FST. Piezometer cluster GW03-016 is located between 40 and 50 feet from the conduits and the injection rates obtained at this location are similar to those obtained at piezometer clusters GW03-017 and GW03-015 located along the southern extent of the conduits.

2. BEDROCK CONDITION:

The Lockport Dolomite was encountered at a depth of approximately 13 feet BGS at location GW03-016. Groundwater, as measured in the piezometers, varied between 10 and 12 feet BGS in the vicinity of the overburden/bedrock interface. The upper, weathered bedrock is characterized by numerous vertical and horizontal fractures. Within the upper 15 feet of the bedrock, several voids were reported during coring and the drill water was lost to the formation. At greater depth, vertical fracturing of the rock is less frequent and horizontal fractures predominate.

3. APPROACH:

Approximate values of hydraulic conductivity were determined using constant head conductivity tests in a singled drilled borehole following methods provided in the third edition of the U.S. Department of Interiors Earth Manual (1990). The constant head, single borehole test is based on the same theories as the steady-state or Thiem-type aquifer test, including the assumptions that the system reaches steady state and flow to, or from the well is horizontal, radial, and laminar.

4. SUMMARY OF TEST METHOD:

This test commonly referred to as a packer test, is conducted by injecting water into an interval isolated within the borehole by inflatable packers and recording the volume of water injected for a measured period of time. The injection pressure is equal to the interval's gravity, or static head, plus added pressure head provided by the hydraulic pump controlled at the pressure gauge. The amount of hydraulic pressure added is dependent on the intake rate of the test interval, and is limited by the calculated maximum pressure that would result in the deformation of the rock being tested. The maximum pressure that could be applied was calculated for each test interval prior to testing (see Table 1 for maximum pressure and flow rates).

The packer tests were performed in a 3-inch diameter, NQ corehole drilled to a depth of 164 feet for the purpose of rock type identification at GW03-016. Individual packer tests were performed at approximate 5 foot intervals at pressures ranging from 10 to 80 psi. Packer tests were not, however performed in the upper 10 feet of the highly fractured and weathered

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bedrock, within which, the overburden steel casing was placed. The corehole was flushed following drilling, but was not developed prior to conducting the tests.

5. TEST PARAMETERS:

Hydraulic conductivity is calculated from data on the flow rate, length and radius of the test interval in the borehole and the effective hydraulic head. The following equation was used to calculate the hydraulic conductivity given the length of the test section (i.e. 5 feet) was greater than 10 times the radius of the rock hole tested (i.e. 0.125 feet).

$$K = \frac{Q}{(2\prod)LH} \ln \frac{L}{r}$$

Where:

K	=	Hydraulic Conductivity (ft/min)
Q	=	Constant rate of flow into test interval ($ft.^3$/min)
L	=	Length of test interval (ft.)
H	=	Differential head of water at test interval (ft.)
r	=	Radius of borehole (ft.)
ln	=	Natural Logarithm, log

Factor used to convert ft/min to cm/sec = 0.508

The differential head (H) used in the equation is equal to the gravity head (H_G, equivalent to the vertical distance from the potentiometric surface for the test interval to the pressure gauge), plus the applied hydraulic pressure (H_P) converted to linear units of head (i.e. Gauge Pressure (psi) x 2.3 ft/psi).

$$H = H_G + H_P$$

6. CALCULATIONS:

The following cases were analyzed to provide a range of estimated hydraulic conductivity values for the Lockport at monitoring location GW03-016:

(a) Estimated Lower Limit: Pressure test conducted in several test intervals (see table 1) failed to provide a measurable loss of water to the test section. The lower limit to which this test can be applied is confined to material with conductivities of 1 x 10^{-5} cm/sec or higher. Therefore the lower-limit conductivity estimate at GW03-016 is equated to a conductivity of 1 x 10^{-5} cm/sec or 0.03 ft/day.

(b) Estimated Upper Recorded Limit: The highest recorded conductivity was measured in test Interval No.31 (23.6 to 29.2 ft BGS). Parameter values for this test are:

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Q = 10.2 gpm = 1.4 ft^3/min

H = (10 psi x 2.3 psi/ft) + 10 ft. = 23 feet

L = 5 feet

R = 1.5 inch = 0.125 ft

$$K = \frac{1.4 ft^3 / \min}{(2 \prod x 5 ft)(23 ft)} \ln \frac{5}{0.125}$$

K = 10.3 ft/day = 3.6 x 10^{-3} cm/sec

(c) Upper Weathered Bedrock: As mentioned in Section 4.0, the upper, fractured bedrock was not packer tested. To arrive at an estimate of the conductivity for this zone, water loss to the formation during drilling was used to arrive at an approximate conductivity value. Parameter values used are:

Q = 100 gpm = 13.4 ft^3/min (i.e. drill log record)

H = 10 feet (i.e. depth of watertable)

L = 5 feet (i.e. length of core run)

R = 1.5 inch = 0.125 ft.

$$K = \frac{13.4 ft^3 / \min}{(2 \prod x 5 ft)(10 ft)} \ln \frac{5}{0.125}$$

K = 0.157 ft/min = 226 ft/day = 8 x 10^{-2} cm/sec

7. CONCLUSIONS:

Results of this analysis indicate that the range of conductivities for the Lockport Dolomite at GW03-016 likely varies between 0.03 ft/day and 226 ft/day. These conductivities lie within the range of test values reported by Yager (1996) for area aquifer tests performed in the weathered bedrock zone of the Lockport Dolomite.

The hydraulic conductivities calculated in this analysis may be somewhat less than actual, since the pressure tests were performed in an undeveloped corehole. As a result, some of the smaller fractures could have been plugged with fines from the drilling process.

8. REFERENCES:

U.S. Department of Interior, 1990: Earth Manual Part 2 – Procedure for Constant Head Hydraulic Conductivity tests in Single Drill Holes, USBR 7310, p.1245

Yager, R.M., 1996: Simulated Three-Dimensional Groundwater Flow in the Lockport Group, a Fractured Dolomite Aquifer near Niagara Falls, New York, USGS Water Supply Paper 2487

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TABLE 1: 2003 Groundwater Investigation Packer Test Results for Piezometer Cluster Location GW03-016

Well: 016	Packer Interval			
Test No.	Top Depth (feet)	Bottom Depth (feet)	Max Press (psi)	Max Flow (GPM)
31	-23.6	-29.2	10	10.2
30	-27.6	-33.2	10	9.2
29	-33.6	-39.2	10	9.3
28	-37.6	-43.2	10	8.9
27	-42.6	-48.2	10	9.8
26	-47.6	-53.2	20	0.9
25	-52.6	-58.2	20	NR
24	-57.6	-63.2	20	9.2
23	-62.6	-68.2	30	11.2
22	-67.6	-73.2	40	12.3
21	-72.6	-78.2	40	0.2
20	-77.6	-83.2	50	13.4
19	-82.6	-88.2	60	7.9
18	-87.6	-93.2	60	15.8
17	-92.6	-98.2	60	13.2
16	-97.6	-103.2	60	5.9
15	-102.6	-108.2	50	NR
14	-107.6	-113.2	60	12.8
13	-112.6	-118.2	60	8.1
12	-107.6	-113.2	60	8.5
11	-112.6	-118.2	60	12.2
10	-117.6	-123.2	60	12.2
8/9	-122.6	-128.2	80	13.3
7/8	-127.6	-133.2	60	11
10	-127.6	-133.2	60	NR
9	-119.8	-125.4	60	NR
8	-124.8	-130.4	60	NR
7	-129.8	-135.4	50	16.8
6	-134.8	-140.4	60	15.8
5	-139.8	-145.4	60	NR
4	-144.8	-150.4	60	NR
3	-149.8	-155.4	60	0.1
2	-154.8	160.4	60	3.0
1	-158	-164	60	1.5

Notes: Test 1 - single packer assembly used for this interval

Test 12 – pulled out of hole check packers.
Miscount of piping, caused later recalculation of test depths

Test 7/8, 8/9 and 10 were retested after a kink was found in piping that restricted water flow. Low readings in tests 8 and 9 were erroneous

NR: Flow amount Not Recordable (i.e. Too low to measure accurately)

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PROJECT: NYPA - Relicensing Services
SUBJECT: Estimate of Weir Flow in Pump Station B

1. PURPOSE

The purpose of this calculation is to estimate flow rates through the weirs connecting the Power Authority conduits to the Pump Station B (north pump station).

2. PROBLEM STATEMENT

There are four weirs connecting the central sump of the Pump Station B with the twin Power Authority conduits (two weirs per conduit). Each weir is 2 feet high and 2.5 ft wide. The breadth of the weir is 4 ft. The weir crests are located at an elevation of 550.00 ft. Weirs are equipped with flap gates, which open when the flow direction is from the central sump into the conduits. See design Drawing 11C-261 for the source of the above information (reference 1).

During Fall 2003 study water level gauges were installed in the central sump of the pump station and in the chamber leading to the east conduit. Data analysis indicated that the average elevation of the water surface is higher in the central sump than in the chamber leading to the conduits. This occurs during both the tourist and non-tourist seasons.

See page 10 for the plot of a data segment encompassing the switch from the tourist to non-tourist season. Results of analysis of the entire data range (page 11) provided the following values:

- Percentage of time when flow occurs from the central sump to the conduits: 70% during tourist season, 60% during non-tourist season.
- Time-weighted average elevations of water surface during the time when the flow occurs (central sump side and conduit side, respectively): 556.56 ft and 554.89 ft for the tourist season; 552.85 ft and 551.13 ft for the non-tourist season.
- Average head differential during the time when the flow occurs: 1.67 ft for the tourist and 1.71 for the non-tourist season.

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3. METHOD

The conceptual sketch of the flow system is shown on page 12. The tourist season is selected to perform the calculations. During average conditions when flow occurs, the entire weir is submerged. During the non-tourist season the weir would alternate from submerged to free, and the flow rate would be difficult to estimate. However, it would be of the same order as the flow rate during the tourist season.

The weir channel section acts essentially as a 4-foot long section of pipe. The head differential between the central sump and the chamber connecting to the conduit is divided between the entrance loss, the friction loss in the "pipe" and the head loss across the partially open gate.

This system will be approximated as a pipe and an orifice. The head loss in the 4-foot pipe section is negligible, and will not be included in the calculation. Only the entrance loss in the pipe will be taken into account. The remainder of the total head loss will be attributed to the orifice.

Entrance loss "h_1" is a product of velocity "V_1" head and the loss coefficient "K_1". Based on reference 2, equation 6.31:

$$h_1 = K_1 V_1^2/2g$$

The entrance to the weir channel at the central sump is flush with the wall. For that, the loss coefficient $K_1 = 0.5$ (reference 2, table underneath equation 6.31).

$$h_1 = 0.5\ V_1^2/2g$$

Designating "A_{ch}" as the cross-sectional area of the weir channel and "Q" as the flow rate:

$$V_1 = Q/A_{ch} \Rightarrow V_1^2 = Q^2/A_{ch}^2$$

$$h_1 = 0.5\ (Q^2/A_{ch}^2\ 2g)$$

$$h_1 = (Q^2/2g)\ (0.5/A_{ch}^2)$$

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The flow reaches the orifice through a weir channel. Therefore, there is an approach velocity "V_1" that will be incorporated. Based on reference 2, equation 4.3, the flow velocity "V_2" through the orifice is:

$$V_2 = [2g(p_1/w - p_2/w + V_1^2/2g - h_l)]^{1/2}$$

The expression "$p_1/w - p_2/w$" is the pressure head differential between the upstream and downstream sides of the orifice, and "h_l" is the energy loss. Neglecting energy loss:

$$p_1/w - p_2/w = h$$

$$V_2 = [2g(h + V_1^2/2g)]^{1/2}$$

$$V_2 = (2gh + V_1^2)^{1/2}$$

The theoretical flow rate "Q" through the orifice is the product of the flow velocity "V_2" and orifice area "A_{or}":

$$Q = V_2 A_{or}$$

$$Q = (2gh + V_1^2)^{1/2} A_{or}$$

Incorporating the discharge coefficient "C", which accounts for the energy loss and the contraction of the jet (reference 2, equation 4.10):

$$Q = C A_{or} (2gh + V_1^2)^{1/2}$$

The discharge coefficient is typically approximately 0.6 for orifices with the size on the order of 1 foot (see for example Table 4.1 of reference 2). Therefore:

$$Q = 0.6 A_{or} (2gh + V_1^2)^{1/2}$$

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From this, the head loss across the orifice is:

$$2gh + V_1^2 = [Q/(0.6\ A_{or})]^2$$

$$h = (1/2g)\ \{[Q/(0.6\ A_{or})]^2 - V_1^2\}$$

$$h = (1/2g)\ \{[Q^2/(0.6^2\ A_{or}^2) - Q^2/A_{ch}^2\}$$

$$h = (Q^2/2g)\ (2.78/A_{or}^2 - 1/A_{ch}^2)$$

The entrance loss "h_1" and the head loss "h" across the orifice are equal to the total head loss "h_T":

$$h_T = h_1 + h$$

$$h_T = (Q^2/2g)(0.5/A_{ch}^2) + (Q^2/2g)(2.78/A_{or}^2 - 1/A_{ch}^2)$$

$$h_T = (Q^2/2g)(0.5/A_{ch}^2 + 2.78/A_{or}^2 - 1/A_{ch}^2)$$

$$h_T = (Q^2/2g)(2.78/A_{or}^2 - 0.5/A_{ch}^2)$$

From this, the flow rate is:

$$\mathbf{Q = [(2g\ h_T)/(2.78/A_{or}^2 - 0.5/A_{ch}^2)]^{1/2}}$$

The area of the orifice is a function of the angle "α" of the gate position. See sketch on page 13. The distance "s" between the gate and the wall can be approximated as reference 3, page B3):

$$s = 2\ r_C\ \sin(\alpha/2)$$

The area of orifice is the product of that distance and the width of the weir "b":

$$A_{or} = b\ s$$

$$\mathbf{A_{or} = 2\ b\ r_C\ \sin(\alpha/2)}$$

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The relationship between the flow rate and the degree to which the gate will be opened (i.e. the orifice area) is derived based on the sketch shown on page 13. Terms are defined on the sketch. It is a simplified analysis, assuming that the only forces acting on the gate are its own weight and the dynamic pressure of the flowing water. The gates are made predominantly of wood, with a metal angle attached to the bottom. See pages 14 and 15 for photographs of identical gates from Pump Station A (weirs in Pump Station B are not accessible). In this analysis, the buoyant force exerted by the wood has been neglected. The wood is assumed to be mostly waterlogged, with the specific weight close to that of water. The entire weight of the gate comes from the metal angle. Also, the static pressure differential between the upstream and downstream sides has been neglected, as it will largely dissipate through the head loss once the gate is opened. Both assumptions are likely to lead to conservative results, i.e. in reality the gate will open somewhat wider than calculated here.

Dynamic pressure "p_D" from flowing water (water density is "ρ_w") acting on the gate is:

$$p_D = V_1^2 \rho_w / 2$$

Also:

$$V_1 = Q / A_{ch}$$

From this:

$$p_D = Q^2 \rho_w / 2 A_{ch}^2$$

The horizontal force "F_D" caused by the dynamic pressure is:

$$F_D = p_D A_{ch}$$

$$F_D = (Q^2 \rho_w / 2 A_{ch}^2) A_{ch}$$

$$F_D = Q^2 \rho_w / 2 A_{ch}$$

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The component "F_{DP}" acting in the direction perpendicular to the gate is:

$$F_{DP} / F_D = \cos\alpha \Rightarrow F_{DP} = F_D \cos\alpha$$

$$F_{DP} = Q^2 \rho_w \cos\alpha / 2 A_{ch}$$

Weight "W" of the metal angle produces the component "W_P" perpendicular to the gate:

$$W_P / W = \sin\alpha \Rightarrow W_P = W \sin\alpha$$

Balancing the moments acting on the gate at the hinge:

$$F_{DP} r_D = W_P r_C$$

$$Q^2 \rho_w \cos\alpha r_D / 2 A_{ch} = W r_C \sin\alpha$$

From this, the flow rate can be obtained.

$$Q^2 = 2 A_{ch} W r_C \sin\alpha / \rho_w \cos\alpha r_D$$

$$\mathbf{Q = (2 A_{ch} W r_C tg\alpha / r_D \rho_w)^{1/2}}$$

The problem is solved as follows:

- Assume the value of gate position angle "α",
- Calculate the corresponding area of the orifice:
  $$\mathbf{A_{or} = 2 b r_C \sin(\alpha/2)}$$
- Calculate flow rate through the orifice:
  $$\mathbf{Q = [(2g h_T)/(2.78/A_{or}^2 - 0.5/A_{ch}^2)]^{1/2}}$$
- Compare to the flow rate that would cause the gate to open at the assumed angle "α":
  $$\mathbf{Q = (2 A_{ch} W r_C tg\alpha / r_D \rho_w)^{1/2}}$$
- Repeat until both flow rates are approximately equal.

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4. CALCULATIONS

Dimensions of the system are shown on the sketch on page 16. They were obtained from reference 1. All parameters used in the calculation are summarized below.

r_C = 3.06 ft = 0.93 m
r_D = 1.88 ft = 0.57 m
b = 2.50 ft = 0.76 m
A_{ch} = 2.50*2.00 = 5.00 ft^2 = 0.46 m^2
ρ_w = 1,000 kg/m^3
g = 9.81 m/s^2
h_T = 1.67 ft = 0.51 m

The exact size of the metal angle is not known. It has been estimated by visual inspection to be L4*4*3/8. Based on reference 4, the weight is 9.8 lb/ft. For a three-foot long section:

W = 3*9.8 = 29.4 lb = 13.3 kG = 131 N

From this:

(1) $A_{or} = 2\ b\ r_C \sin(\alpha/2)$

$A_{or} = 2*0.76*0.93 \sin(\alpha/2)$

$A_{or} = 1.41*\sin(\alpha/2)$

(2) $Q = [(2g\ h_T)/(2.78/A_{or}^2 - 0.5/A_{ch}^2)]^{1/2}$

$Q = [(2*9.81*0.51)/(2.78/A_{or}^2 - 0.5/0.46^2)]^{1/2}$

$Q = 3.16\ /\ (2.78/A_{or}^2 - 2.36)^{1/2}$

(3) $Q = (2\ A_{ch}\ W\ r_C\ tg\alpha\ /\ r_D\ \rho_w)^{1/2}$

$Q = (2*0.46*131*0.93*tg\alpha/0.57*1,000)^{1/2}$

$Q = 0.443\ (tg\alpha)^{1/2}$

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This was solved iteratively. The result is:

$\alpha = 6.5$ deg

$A_{or} = 1.41*\sin(6.5/2) = 0.0799\ m^2$

Flow through the orifice:
$Q(2) = 3.16 / (2.78/0.0799^2 - 2.36)^{1/2} =$
$= 0.152\ m^3/s$

Flow required to open the gate to 6.5 degrees:
$Q(3) = 0.443\ (tg6.5)^{1/2} = 0.150\ m^3/s$

$Q(2) = 0.152 \approx 0.150 = Q(3)$ OK

$Q = 0.151\ m^3/s = 2{,}400$ gpm

The flow occurs approximately 70% of the time. The time-averaged flow is:

$Q_{avg} = 0.7*2{,}400 = 1{,}700$ gpm

There are four weirs connecting the central sump with the conduits. Therefore, the total average flow from the sump into the conduits is:

$Q_{total} = 4*1{,}700 = 6{,}800$ gpm

5. SUMMARY

In this calculation, the flow rate over the weirs connecting the central sump of the Pump Station B (north pump station) with the twin Power Authority conduits has been estimated. The estimate was performed based on water surface elevation data collected during the Fall 2003 study. Findings are as follows:

- The flow from the central sump into the conduits occurs approximately 60 to 70% of the time.
- The time-averaged magnitude of the flow is approximately 7,000 gpm.

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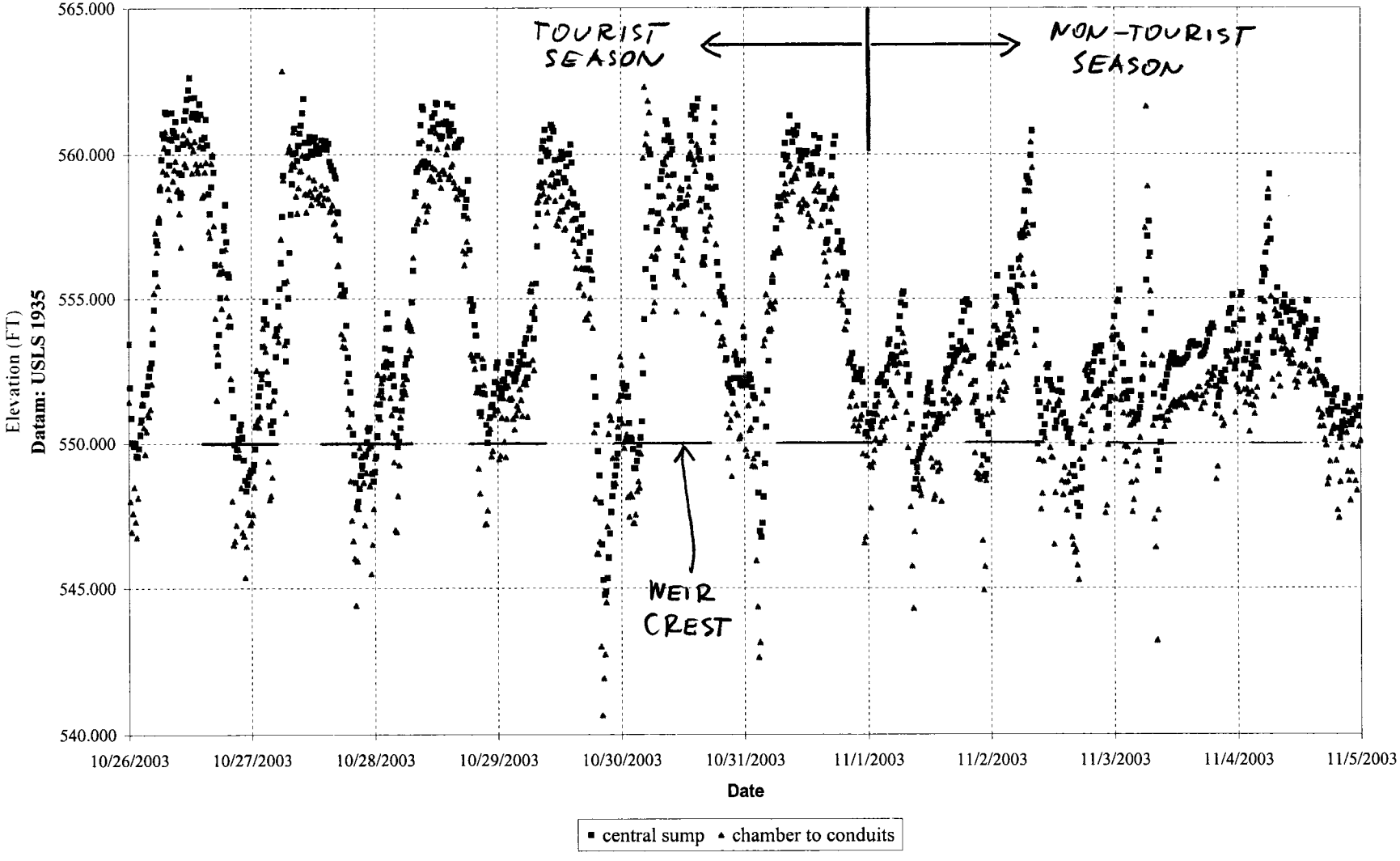
Pump Station B
Elevation of Water Surface



Levels_in_Pump_Stations_Oct20_to_Nov25.xls
5/20/2004 10:53 AM

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Table __
Average Elevations and Differences
at Pump Station B
Conduit Drainage System and Conduits

Data Range	CDS	Conduits	CDS - Conduits	Percent of Time When Flow Occurs
Tourist Season	556.56	554.89	1.67	69.5%
Non-Tourist Season	552.85	551.13	1.71	60.3%
All Data	554.62	552.92	1.69	64.3%

Notes:

1) Elevation averages are calculated when both of the following conditions are true:
Elevation of CDS > Elevation Weir and
Elevation of CDS > Elevation Conduit

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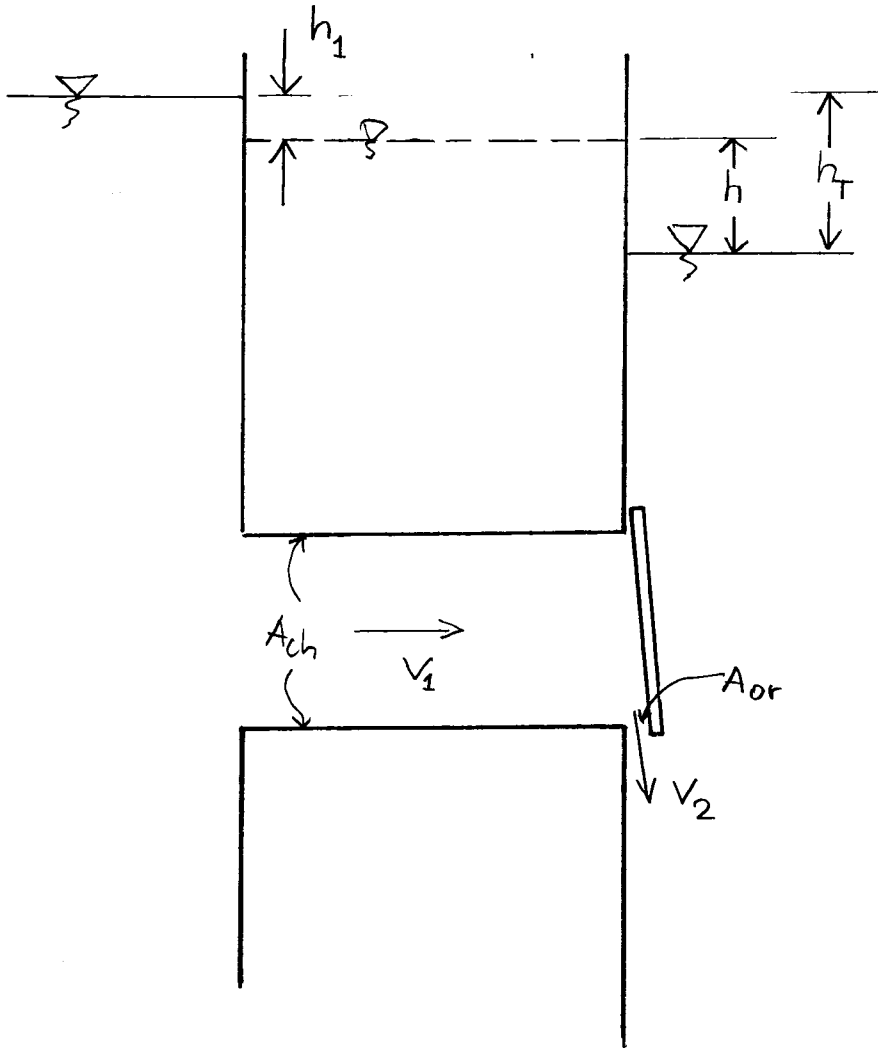
Job NYPA | Project No. 111 71832 | Sheet ___ of ___

Description Estimate of Weir Flow in PSB | Computed by MO | Date 5/26/04

Checked by [illegible] | Date 5/26/04

Reference

Conceptual Sketch of Flow System



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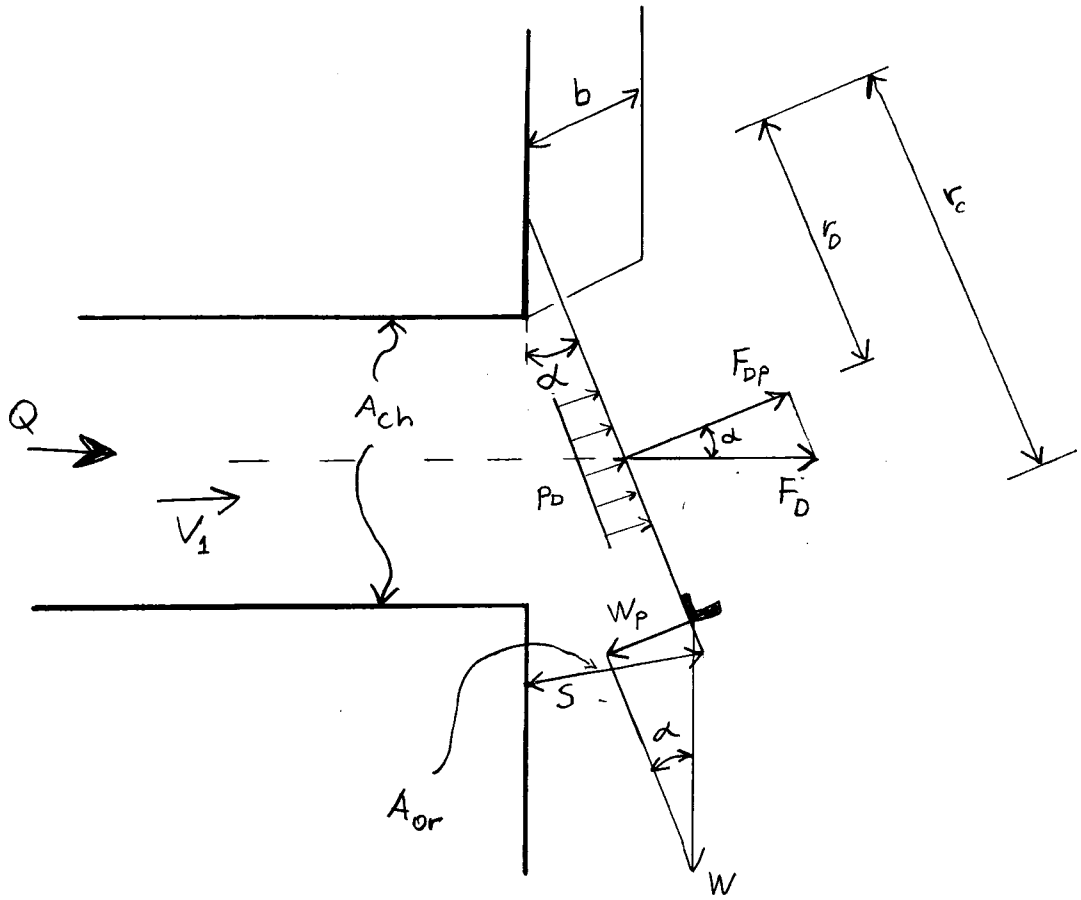
Job NYPA | Project No. 111 71 832 | Sheet ___ of ___

Description Estimate of Weir Flow in PS B | Computed by MO | Date 5/26/04

Checked by MW | Date 5/26/04

Reference



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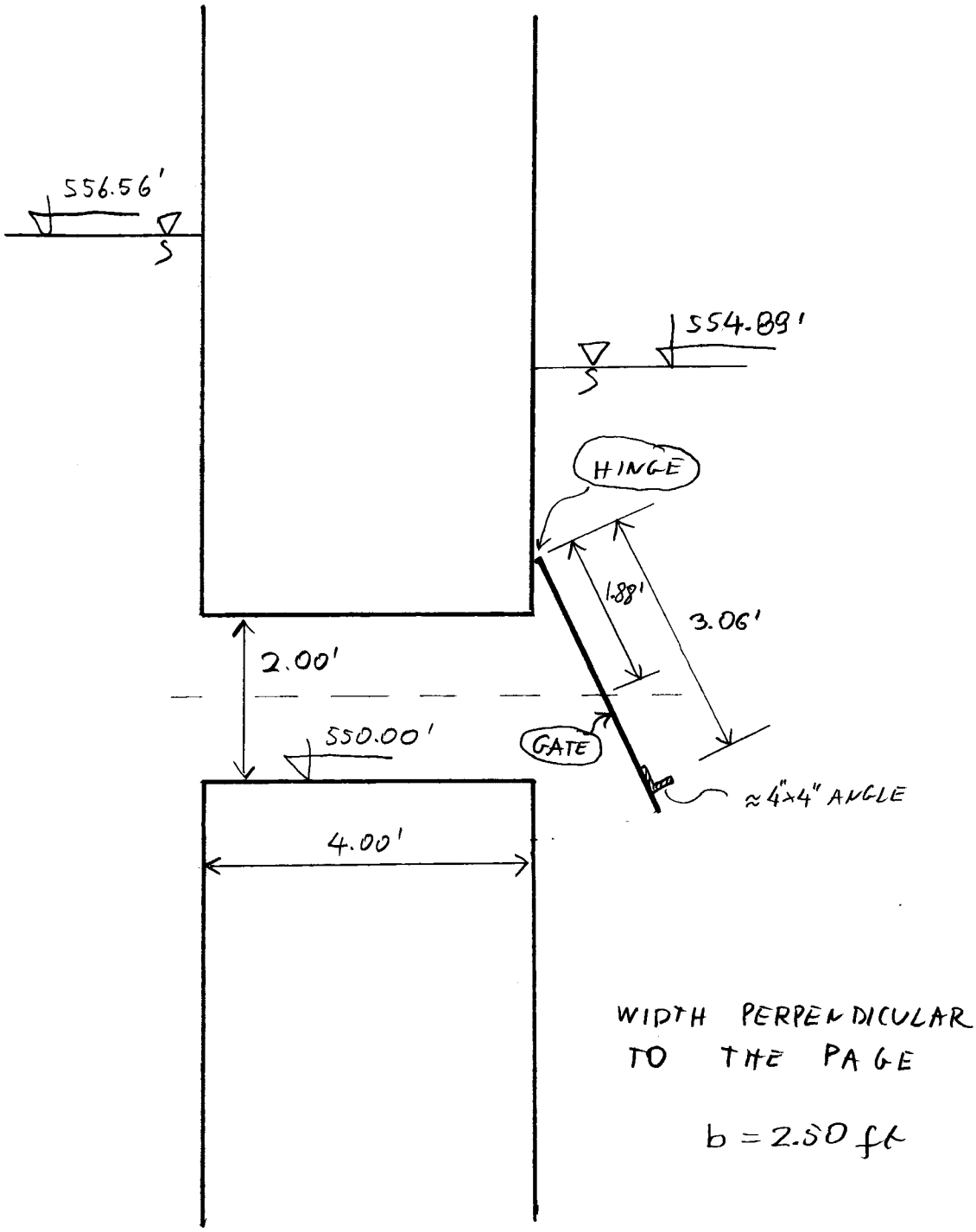
Job: NMPA
Project No.: 11171932
Sheet ____ of ____
Description: Estimate of weir flow in PSB
Computed by: Iho
Date: 5/26/04
Checked by: MW
Date: 5/26/04
Reference



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b = 2.50 ft

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Critical Energy Infrastructure Information (CEII) has been removed from the following page(s).

This material is contained in:
Volume 3
Section: Determine to What Extent Project Operations Affect the Transport of Groundwater and Contaminants

Reference 1

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Scale $\frac{1}{2}$" = 1'-0"

[CEII - Project Technical Details]

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pg 1 of 4

TRY AND

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YDRAULICS

HANDBOOK OF HYDRAULICS

for the Solution of Hydraulic Engineering Problems

Ernest F. Brater

Professor of Hydraulic Engineering
University of Michigan

Horace Williams King

Late Professor of Hydraulic Engineering
University of Michigan

James E. Lindell, Editor in Chief

Chief Hydraulic Engineer
Harza Engineering Company

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Senior Hydraulic Engineer
Harza Engineering Company

Reference 2

Seventh Edition

McGRAW-HILL

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Cáracas Lisbon London Madrid Mexico City Milan
Montreal New Delhi San Juan Singapore
Sydney Tokyo Toronto

elements of the jet are parallel and the pressure in the jet can be assumed to be equal to that in the surrounding fluid. The vena contracta of a circular orifice is approximately ½ diameter downstream from the inner face of the orifice plate. The area at the vena contracta a_2 is related to the area of the orifice a as follows:

$$a_2 = C_c a \tag{4.1}$$

where C_c is the coefficient of contraction.

The contraction is caused by the fact that those elements of the fluid with approach from the side of the orifice have transverse velocity components directed toward the center of the orifice. Therefore the nearness of boundaries, such as for orifices in pipes, would tend to reduce the amount of contraction and increase C_c. If one edge of an orifice is flush with a wall, the contraction on that side will be entirely eliminated. However, the contraction from the other side will be increased by approximately the same amount. Increasing the roughness of the inner face of the orifice plate would also reduce the transverse velocity components slightly. Rounding the inner edge of the orifice reduces contraction, and the contraction can be eliminated completely by shaping the orifice to conform with the form of the contracting jet, as shown in Fig. 4.2.

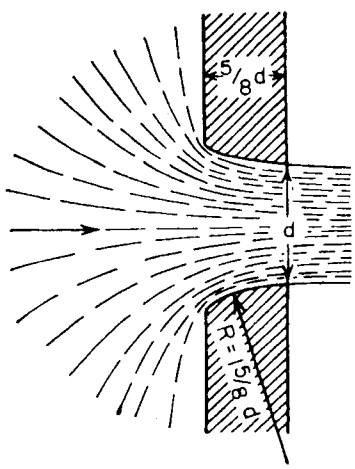

FIGURE 4.2 Bell-mouthed orifice with rounded upstream edge.

Fundamental Equations

The Bernoulli equation (Sec. 3), written from any point in the liquid, such as point 1 in Fig. 4.1, to the vena contracta (point 2), taking the datum plane through the center of the orifice, is

$$\frac{v_1^2}{2g} + \frac{p_1}{w} = \frac{v_2^2}{2g} + \frac{p_2}{w} + h_l \tag{4.2}$$

and

$$v_2 = \sqrt{2g\left(\frac{p_1}{w} - \frac{p_2}{w} + \frac{v_1^2}{2g} - h_l\right)} \tag{4.3}$$

pg 20 of 27

Point 2 being loc
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Inserting the va
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The energy lo
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Point 2 being located where the jet has ceased to contract, its pressure is that of the surrounding fluid. For discharge into the atmosphere, p_2 is therefore zero on the gauge scale. For large tanks, v_1 is so small that it may be neglected. Replacing p_1/w with h and dropping the subscript of v_2, Eq. (4.3) may now be written

$$v_2 = \sqrt{2g(h - h_l)} \tag{4.4}$$

Neglecting energy losses, the equation for the theoretical velocity becomes

$$v_t = \sqrt{2gh} \tag{4.5}$$

or

$$h = \frac{v_t^2}{2g} \tag{4.6}$$

The expression $v_t^2/2g$ is termed the *velocity head.*

It is convenient to take care of the energy loss by introducing the coefficient of velocity C_v. Thus instead of subtracting the energy loss as in Eq. (4.4), the expression for the velocity at the vena contracta may be written

$$v_2 = C_v \sqrt{2gh} \tag{4.7}$$

The discharge Q is the product of the velocity and the area at the vena contracta,

$$Q = a_2 v_2 \tag{4.8}$$

Inserting the value of a_2 from Eq. (4.1) and the value of v_2 from Eq. (4.7),

$$Q = C_c a C_v \sqrt{2gh} \tag{4.9}$$

The product of the coefficient of velocity C_v and the coefficient of contraction C_c is the coefficient of discharge C. Equation (4.9) may then be written

$$Q = Ca \sqrt{2gh} \tag{4.10}$$

The energy loss may be expressed in terms of C_v by equating the expressions for v given in Eqs. (4.4) and (4.7),

$$\sqrt{2g(h - h_l)} = C_v \sqrt{2gh}$$

Then

$$h_l = (1 - C_v^2)h \tag{4.11}$$

ıe coefficient of
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(4.18)

, by integrating
ıe water surface
) gives the time
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.ll below the top
s, A is constant,

(4.19)

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of which are in
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also found small
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for 6-cm orifices

TABLE 4.1 Smith's Coefficients of Discharge for Circular and Square Orifices with Full Contraction

	Diameter of circular orifices, cm						
Head, m	0.5	1.0	2.0	5.0	10.0	15.0	30.0
0.1		0.642	0.627	0.606			
0.2	0.657	0.637	0.618	0.604	0.598	0.595	
0.3	0.648	0.630	0.613	0.603	0.598	0.596	0.591
0.4	0.643	0.627	0.611	0.601	0.598	0.597	0.592
0.5	0.638	0.623	0.608	0.601	0.599	0.597	0.594
1	0.629	0.616	0.604	0.600	0.599	0.598	0.597
2	0.619	0.610	0.602	0.599	0.598	0.597	0.596
3	0.612	0.606	0.599	0.597	0.597	0.596	0.595
4	0.609	0.604	0.599	0.597	0.596	0.596	0.595
5	0.606	0.603	0.598	0.596	0.596	0.596	0.594
10	0.599	0.598	0.596	0.595	0.595	0.595	0.594
20	0.595	0.594	0.593	0.593	0.593	0.593	0.593
30	0.593	0.592	0.592	0.592	0.592	0.592	0.592
	Side of square orifices, cm						
Head, m	0.5	1.0	2.0	5.0	10.0	15.0	30.0
0.1		0.649	0.631	0.606			
0.2	0.661	0.642	0.623	0.609	0.603	0.601	
0.3	0.651	0.635	0.619	0.608	0.604	0.602	0.599
0.4	0.647	0.631	0.617	0.606	0.604	0.603	0.600
0.5	0.642	0.627	0.614	0.606	0.604	0.603	0.602
1	0.634	0.621	0.609	0.605	0.605	0.604	0.603
2	0.624	0.615	0.607	0.604	0.604	0.603	0.602
3	0.617	0.611	0.605	0.603	0.603	0.602	0.601
4	0.614	0.609	0.604	0.603	0.602	0.602	0.601
5	0.611	0.608	0.603	0.602	0.602	0.602	0.600
10	0.605	0.603	0.602	0.601	0.601	0.600	0.600
20	0.601	0.600	0.600	0.599	0.599	0.599	0.599
30	0.599	0.598	0.598	0.598	0.598	0.598	0.598

when the head is 60 cm or more. Values are slightly larger for lower heads.

If there is suppression of contraction on one side and opportunity for complete contraction on the other sides, more water will approach with velocity components parallel to the face of the orifice on these

of equivalent length l_e of straight pipe. If the energy-loss term for minor losses given by Eq. (6.29) is equated to the loss for a straight pipe of length l_e, from Eq. (6.19),

$$K_m \frac{V^2}{2g} = f \frac{l_e}{d} \frac{V^2}{2g}$$

and

$$l_e = \frac{K_m d}{f} \tag{6.30}$$

Then the actual length of pipe can be increased by the amount l_e and the total loss will be given by Eq. (6.19).

Loss at Entrance

When water enters a pipe from a reservoir, the loss is expressed as

$$h_1 = K_1 \frac{V^2}{2g} \tag{6.31}$$

Values of K_1 for various conditions are given in the following table:

Type of entrance	K_1
Square-cornered entrance flush with wall	0.5
Rounded entrance	0.04–0.2
Inward-projecting square-cornered entrance	0.8–0.9

Additional information on entrance losses is given in the discussion of culverts in Sec. 4.

Loss of Head Due to Enlargement

Borda has found that the loss in pipes due to *sudden* enlargement may be represented by the theoretical formula

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ENGINEERING FORMULAS

Kurt Gieck

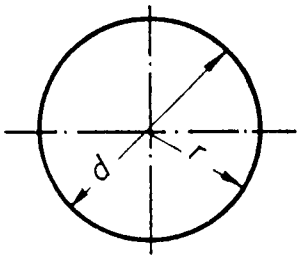
Reference 3

Fifth Edition

McGraw-Hill Book Company
New York St. Louis San Francisco Montreal Toronto

AREAS

circle

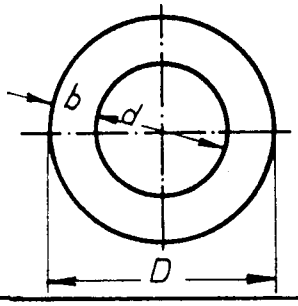


b 30 $A = \frac{\pi}{4} d^2 = \pi r^2$

b 31 $\approx 0{\cdot}785\, d^2$

b 32 $U = 2\pi r = \pi d$

annulus

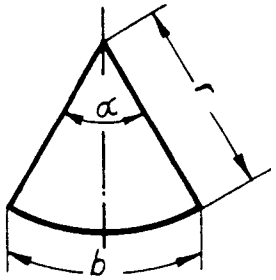


b 33 $A = \frac{\pi}{4}(D^2 - d^2)$

b 34 $= \pi (d + b) b$

b 35 $b = \frac{D - d}{2}$

sector of a circle



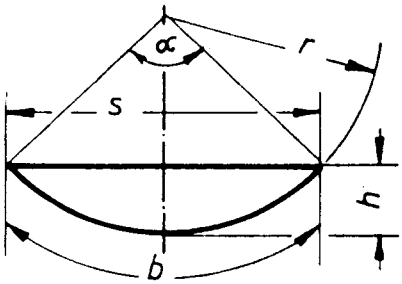
b 36 $A = \frac{\pi}{360^0} r^2 \alpha = \frac{\hat{\alpha}}{2} r^2$

b 37 $= \frac{b\, r}{2}$

b 38 $b = \frac{\pi}{180^0} r \alpha$

b 39 $\hat{\alpha} = \frac{\pi}{180^0} \alpha$ ($\hat{\alpha} = \alpha$ in circular measure)

segment of a circle



b 40 $s = 2 r \sin\frac{\alpha}{2}$

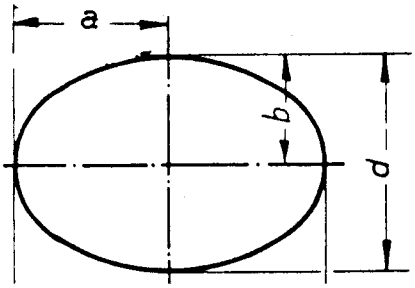
b 41 $A = \frac{h}{6 s}(3 h^2 + 4 s^2) = \frac{r^2}{2}(\hat{\alpha} - \sin\alpha)$

b 42 $r = \frac{h}{2} + \frac{s^2}{8 h}$

b 43 $h = r(1 - \cos\frac{\alpha}{2}) = \frac{s}{2}\tan\frac{\alpha}{4}$

b 44 $\hat{\alpha}$ see formula b 39

ellipse



b 45 $A = \frac{\pi}{4} D\, d = \pi a b$

b 46 $U \approx \pi \frac{D + d}{2}$

b 47 $= \pi(a+b)\left[1 + \frac{1}{4}\lambda^2 + \frac{1}{64}\lambda^4 + \frac{1}{256}\lambda^6 + \frac{25}{\ldots}\lambda^8 + \ldots\right]$, where $\lambda = \frac{a-b}{\ldots}$

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Manual of

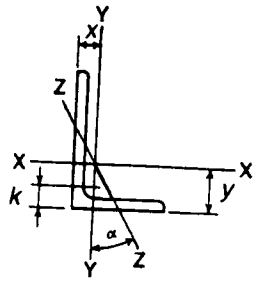
STEEL CONSTRUCTION

Allowable Stress Design

NINTH EDITION

Reference 4

American Institute of Steel Construction, Inc.
1 East Wacker Drive, Suite 3100
Chicago, Illinois 60601



ANGLES
Equal legs and unequal legs
Properties for designing

Size and Thickness	k	Weight per Ft	Area	AXIS X-X				AXIS Y-Y				AXIS Z-Z	
				I	S	r	y	I	S	r	x	r	Tan α
In.	In.	Lb.	In.²	In.⁴	In.³	In.	In.	In.⁴	In.³	In.	In.	In.	
L 5×3½× ¾	1¼	19.8	5.81	13.9	4.28	1.55	1.75	5.55	2.22	0.977	0.996	0.748	0.464
⅝	1⅛	16.8	4.92	12.0	3.65	1.56	1.70	4.83	1.90	0.991	0.951	0.751	0.472
½	1	13.6	4.00	9.99	2.99	1.58	1.66	4.05	1.56	1.01	0.906	0.755	0.479
7/16	15/16	12.0	3.53	8.90	2.64	1.59	1.63	3.63	1.39	1.01	0.883	0.758	0.482
⅜	⅞	10.4	3.05	7.78	2.29	1.60	1.61	3.18	1.21	1.02	0.861	0.762	0.486
5/16	13/16	8.7	2.56	6.60	1.94	1.61	1.59	2.72	1.02	1.03	0.838	0.766	0.489
¼	¾	7.0	2.06	5.39	1.57	1.62	1.56	2.23	0.830	1.04	0.814	0.770	0.492
L 5×3 × ⅝	1	15.7	4.61	11.4	3.55	1.57	1.80	3.06	1.39	0.815	0.796	0.644	0.349
½	1	12.8	3.75	9.45	2.91	1.59	1.75	2.58	1.15	0.829	0.750	0.648	0.357
7/16	15/16	11.3	3.31	8.43	2.58	1.60	1.73	2.32	1.02	0.837	0.727	0.651	0.361
⅜	⅞	9.8	2.86	7.37	2.24	1.61	1.70	2.04	0.888	0.845	0.704	0.654	0.364
5/16	13/16	8.2	2.40	6.26	1.89	1.61	1.68	1.75	0.753	0.853	0.681	0.658	0.368
¼	¾	6.6	1.94	5.11	1.53	1.62	1.66	1.44	0.614	0.861	0.657	0.663	0.371
L 4×4 × ¾	1⅛	18.5	5.44	7.67	2.81	1.19	1.27	7.67	2.81	1.19	1.27	0.778	1.000
⅝	1	15.7	4.61	6.66	2.40	1.20	1.23	6.66	2.40	1.20	1.23	0.779	1.000
½	⅞	12.8	3.75	5.56	1.97	1.22	1.18	5.56	1.97	1.22	1.18	0.782	1.000
7/16	13/16	11.3	3.31	4.97	1.75	1.23	1.16	4.97	1.75	1.23	1.16	0.785	1.000
⅜	¾	9.8	2.86	4.36	1.52	1.23	1.14	4.36	1.52	1.23	1.14	0.788	1.000
5/16	11/16	8.2	2.40	3.71	1.29	1.24	1.12	3.71	1.29	1.24	1.12	0.791	1.000
¼	⅝	6.6	1.94	3.04	1.05	1.25	1.09	3.04	1.05	1.25	1.09	0.795	1.000
L 4×3½× ½	15/16	11.9	3.50	5.32	1.94	1.23	1.25	3.79	1.52	1.04	1.00	0.722	0.750
7/16	⅞	10.6	3.09	4.76	1.72	1.24	1.23	3.40	1.35	1.05	0.978	0.724	0.753
⅜	13/16	9.1	2.67	4.18	1.49	1.25	1.21	2.95	1.17	1.06	0.955	0.727	0.755
5/16	¾	7.7	2.25	3.56	1.26	1.26	1.18	2.55	0.994	1.07	0.932	0.730	0.757
¼	11/16	6.2	1.81	2.91	1.03	1.27	1.16	2.09	0.808	1.07	0.909	0.734	0.759