

Appendix A: Soil Characteristics



Appendix A: Soil Series Within the Study Area.

Soil Series (Map Symbol)	Main Characteristics
Cayuga and Cazenovia silt loams (CcB)	<ul style="list-style-type: none"> • Moderately drained to well drained • Seasonal water table at depth of 1½ -2 feet • Underlain by loamy calcareous glacial till at a depth of 20-36 inches • 2% to 6% slopes • Approximately 14 acres in Study Area, found on rim in the Artpark
Collamer silt loam (CnA and CnB)	<ul style="list-style-type: none"> • Moderately well drained • Seasonal water table at depth of 1½ -2 feet • Formed in neutral to calcareous lacustrine deposits • 0% to 6% slopes • Approximately 49 acres in Study Area, on rim in the Artpark and along the Robert Moses Parkway
Cut and fill land (Cu)	<ul style="list-style-type: none"> • Result from construction operations • Original soil has been stripped and removed, or covered with fill materials to a depth of 3 feet or more • A mixture of soil materials with no profile development • Require onsite investigation if changes in land use are contemplated • Common within Study Area (approximately 175 acres), both along rim and in gorge

Soil Series (Map Symbol)	Main Characteristics
Dunkirk and Arkport soils (DvD3)	<ul style="list-style-type: none"> • Well drained • Seasonal high water table generally at a depth >3 feet • Formed in sandy deltaic and limy lacustrine deposits • 12% to 20% slopes, eroded • Uncommon in Study Area, found on rim in the Artpark
Hudson soils (HuF3)	<ul style="list-style-type: none"> • Rapid runoff and slow permeability • Found in long, narrow strips along streambanks • 20% to 45% slopes, eroded • Uncommon in Study Area, found in gorge within the Artpark
Made land (Me)	<ul style="list-style-type: none"> • Areas that have been filled with stones, masonry materials, bricks, and other waste • Thin mantle of soil material, but no profile development • Require onsite investigation to determine suitability for other uses • Approximately 27 acres in Study Area, both in gorge and on rim, immediately south of the Niagara Power Project
Otisville gravelly sandy loam (OsB)	<ul style="list-style-type: none"> • Excessively drained • Seasonal high water table generally at a depth >5 feet • Formed in sand and gravel glacial beach deposits • 3% to 8% slopes • Approximately 25 acres in Study Area, found on rim in the Artpark
Quarries (Qu)	<ul style="list-style-type: none"> • Uncommon in Study Area, found on rim in the Artpark

Soil Series (Map Symbol)	Main Characteristics
Rhinebeck silt loam (RbA)	<ul style="list-style-type: none"> • Somewhat poorly drained • Seasonal high water table at depth of ½ to 1 foot • Formed in calcareous lacustrine deposits • 0% to 2% slopes • Uncommon in Study Area, found on rim in the Artpark
Rock land, steep (RoF)	<ul style="list-style-type: none"> • Slopes exceed 15% • Approximately 46 acres in Study Area, primarily in gorge, but also on rim in the Artpark

Source: USDA Soil Conservation Service, 1972.

