



WETLAND DELINEATION REPORT

**Canandaigua Shores
(3535 East Lake Road)**

**Town of Canandaigua, Ontario County
New York**

Prepared For:

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October 11, 2021

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INTRODUCTION

At the request of Canandaigua Shores, LLC, Environmental Resources, L.L.C., (ERS), undertook a study to delineate and describe the Waters of the United States that occur on a 41± acre project site located east of 3535 East Lake Road and extends east to front on Lincoln Hill Road, Town of Canandaigua, Ontario County, New York (see Appendix A—Figure 1). Waters of the United States, as defined by the United States Army Corps of Engineers (USACE), include all lakes, ponds, rivers, streams (intermittent and perennial), and non-excluded wetlands that have certain connections to navigable

areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support a prevalence of vegetation typically adapted for life in saturated soil conditions”. This report describes the Waters of the United States delineated within the study area and the methodology used in making the boundary determinations. It provides the information necessary to identify all on-site Waters of the United States and can be used to support any subsequent permit applications that may be submitted to the USACE (Buffalo District) and New York Department of Environmental Conservation (NYSDEC) (Region 8).

SITE DESCRIPTION

This study area is primarily a successional scrub-shrub/woodlot that rises 250± feet from East Lake Road eastward to Lincoln Hill Road. The last several hundred feet to the east is a successional hay field. An excavated intermittent drainage enters the north edge of the area flowing north to south through the site, and then off the site ultimately discharging into Canandaigua Lake. One small depressional, seasonal wetland is found near the southwest corner of the study area and drains eastward into the intermittent drainage. Several small ephemeral rivulets drain westward down the steep slope of the site.

Adjacent lands include rural residential along East Lake Road, and a more concentrated residential area occurs adjacent to the lower northwest boundary. Additional agricultural lands lie next to the most easterly extension of the site, and successional forested areas lie to the north and south sides of the study area.

RESOURCE INFORMATION

To determine the possibility of wetlands occurring within the study area, the following background information was collected and reviewed.

United States Geologic Survey (USGS) Topographic Map

The project site is located within the Canandaigua Lake and Rushville, New York Quadrangle Map (Figure 1). This map shows approximately 200-feet of west aspect relief across the entire site.

United States Fish and Wildlife Service National Wetlands Inventory (NWI) Map

The NWI map (Figure 2) indicates there to be no federal wetlands mapped on the project site.

NYS Freshwater Wetland Map

As shown in Figure 3, no DEC wetlands are suspected to be present on and adjacent to the site.

WebSoil Survey/Ontario County Soil Survey

A review of the Ontario County Soil Survey (USDA, 1958) indicates agricultural land and shrub/woodlands on the study area. The soil types are described below and shown in Figure 4.

- 71A – Darien silt loam, 0 to 3 percent slopes, somewhat poorly drained soils. The Darien soil series is derived from loamy till predominantly from calcareous gray shale. Soil occupies approximately 3.8 percent of the study area.
- 71 B – Darien silt loam, 3 to 8 percent slopes, somewhat poorly drained. Soil occupies approximately 43.2 percent of the study area.
- 71 C – Darien silt loam, 8 to 15 percent slopes, somewhat poorly drained. Soil occupies 30.9 percent of the study area.
- 302A – Kendaia loam, 0 to 3 percent slopes, somewhat poorly drained soils. Calcareous loamy till derived from limestone, sandstone, and shale. Soil occupies approximately 17.7 percent of the study area.
- 201A – Lima loam, 0 to 3 percent slope, moderately well drained soils. Calcareous loamy till derived from limestone, sandstone, and shale. Soil occupies approximately 0.2 percent of the study area.
- 116C – Ontario loam, 8 to 15 percent slopes, well drained soils. Calcareous loamy till derived from limestone, sandstone, and shale. Soil occupies approximately 4.1 percent of the study area.

The USDA Natural Resource Conservation Service (USDA SCS, 1989) has determined that there no hydric soils mapped on the study area. The Darien and Kendaia soil series have the potential for hydric soil inclusions.

WETLAND DELINEATION METHODOLOGY

A wetlands delineation including detailed data collection and boundary identification was performed on August 16, 2021, by wetlands ecologist Gene Pellett and wildlife biologist John Hauber. During the field investigation, the boundaries of all wetlands within the study area were flagged using surveyor's ribbon and data collected from a thorough assessment of the property.

Wetlands on site were delineated according to the methodology described in the *1987 Corps of Engineers Wetland Delineation Manual and the Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Regions (hereafter referred to as The Corps Manual) (Environmental Laboratory)*. Observations of vegetation, soils, and hydrologic conditions were used to determine the boundaries of federally and state regulated wetlands. Data sheets were completed for the sample plots, including verifying upland points, and are presented in Appendix B. Representative photographs were taken of the wetland, as well as adjacent uplands, and are presented in Appendix C (the locations of the photographs are indicated in Appendix A, Figure 5).

Vegetation data collection focused on dominant plant species in four categories: trees (>3" DBH), sapling/shrubs (<3.2' tall), woody vines, and herbs (<3.2' tall). Dominance was measured by visually estimating those species having the largest relative basal area (trees), greatest density (saplings/shrubs), greatest number of stems (woody vines), and greatest percentage of aerial coverage (herbs) by species. The species were rank-ordered for each category by decreasing value of percent cover. The dominant species for each category are defined as those plants with the highest ranking which, when cumulatively totaled, exceed 50 percent of the total dominance measure for that category, plus any additional plant species comprising 20 percent or more of the total dominance measure for the category.

The indicator status for each species was determined by reference to the *National List of Plant Species that Occur in Wetlands: Northeast (Region 1)* (Reed, 2012), or by reference to species habitat descriptions from various botanical sources for those species not on the national list. Scientific nomenclature for plant species follows that in *A Checklist of New York State Plants* (Mitchell, 1986). A sampling plot was determined to have wetland vegetation if 50 percent or more of all dominate plant species are of facultative (FAC), facultative wetland (FACW), or obligate (OBL) indicator status, as described in *The Corps Manual*.

Soils information was collected using a "Sharp Shooter" shovel and Dutch soil auger. Information concerning soil series, subgroup, drainage classification, texture, and matrix and mottle color was obtained at each sample location. Soil color was determined using *Munsell Soil Color Charts* (Kollmorgen Corp., 1992).

Hydrologic characteristics (inundation and soil saturation) were visually assessed to a depth of sixteen inches. *The Corps Manual* lists the following indicators as evidence of wetland hydrology: (1) visual observation of inundation, (2) visual observation of soil saturation, (3) watermarks, (4) drift lines, (5) sediment deposits, (6) absence of leaf litter, (7) encrusted detritus, and (8) drainage patterns. Based on professional judgment, the following additional indicators were also used as evidence of wetland hydrology: (1) water-stained leaves, and (2) oxidized rhizospheres.

INSTRUMENT SURVEY

An instrument survey of the delineated wetland boundaries was completed by Marks Engineering during August 2021, and is shown in Figure 5.

RESULTS AND DISCUSSION

On this study area is one depressional, seasonally flooded wetland near the southwest corner which is adjacent to an excavated intermittent drainage way that crosses north to south through the site. The remainder of the site is a successional scrub-shrub/woodlot community with a portion of old-field acreage at the eastern portion. The following summary table identifies the on-site aquatic resources as determined and delineated by ERS:

Wetland/Stream	Latitude	Longitude	Acres/Linear Feet	Wetland Type/Flow Regime.
Wetland A	42.512155	77.150428	0.081 Acres	Late Scrub-Shrub Wetland
Intermittent Drainage	42.512159	77.150397	0.166 Acres; 839 LF	Excavated Intermittent Drainage

Delineated aquatic water resources can be seen in Appendix A, Figure 5.

Wetland A

Wetland A is an 0.081 acre seasonally flooded, depressional, late scrub-shrub wetland (Photo 1) that has a small drainage outlet (one foot wide and 18 inches deep), that appears to have been excavated through 20-feet of uplands before discharging into an adjacent intermittent drainage. Dominant vegetation includes green ash (*Fraxinus pensylvanica*-FACW) saplings and trees, and common buckthorn (*Rhamnus cathartica*-FAC) shrubs. Underlying hydric soils have a redox dark surface matrix color of 10YR3/1 (very dark gray) to 10YR3/2 (very dark grayish brown) with high chroma mottles in the A horizon, and a B horizon of 10YR4/1 (dark gray) with high chroma mottles. Indicators of wetland hydrology include water marks, sparsely vegetated concave surface, and water-stained leaves.

Adjacent Uplands

Lands next to Wetland A are a successional scrub-shrub/woods and a mowed, widened old-field trail. (Photo 2). Characteristic vegetation includes cherry (*Prunus* spp.-FACU) trees, common buckthorn, multiflora rose (*Rosa multiflora*-FACU), and black raspberry (*Rubus occidentalis*-UPL) shrubs, with white avens (*Geum canadense*-FACU), wild madder (*Galium mollugo*-FACU), birdsfoot trefoil (*Lotus corniculatus*-FACU), speckled aster (*Aster simplex*-FACW), heal-all (*Prunella vulgaris*-FACU), Canada goldenrod (*Solidago canadensis*-FACU), common dandelion (*Taraxacum officinale*-FACU), and poison ivy (*Toxicodendron radicans*-FAC) on the ground plain, and summer grape (*Vitis aestivalis*-FACU) vines. Underlying non-hydric soils have a matrix color of 10YR3/2 to 10YR4/2 (dark grayish brown) with no mottles in the A horizon, and 10YR3/2 to 10YR4/2 with no mottles in the B horizon. Hydrologic characters are absent.

Intermittent Drainage

An intermittent stream (839 linear feet; 0.166 acres) was excavated in the past from north to south to carry drainage from an eastern flowing drainage off the steep eastern slope across the study area to end up as a further drainage off site southwesterly to Canandaigua Lake. (Photo 3). This on-site stream (839 linear feet; 0.166 acres) is approximately 8 to 10 feet wide, and is 18-inches to 3 feet below grade, and has a silt bed. At the time of our data collection the drainage contained no water. Characteristic vegetation includes silky dogwood (*Cornus amomum*-FACW), subcordate water plantain (*Alisma subcordatum*-OBL), pale touch-me-not (*Impatiens pallida*-FACW), European bugleweed (*Lycopus europaeus*-OBL), and speckled aster. Underlying hydric soils have a depleted matrix color of 10YR3/1 with high chroma mottles in the A horizon, and 10YR4/1 with high chroma mottles in the B horizon. Hydrologic characters include water marks, sediment deposits, inundation visible on aerial imagery, and drainage pattern.

Adjacent Uplands

Lands adjacent to this intermittent drainage are late successional scrub-shrub/woods. (Photo 4). Characteristic vegetation includes quaking aspen (*Populus tremula*-FACU), green ash, and box elder (*Acer negundo*-FAC) trees, common buckthorn, tartarian honeysuckle (*Lonicera tatarica*-FACU), multiflora rose, and gray dogwood (*Cornus racemosa*-FAC) shrubs; with garlic mustard (*Alliaria petiolata*-FACU), speckled aster, white avens, heal-all, pale touch-me-not, tall hairy groove-bur (*Agrimonia gryposepala*-FAC), small flower groove-bur (*A. parviflora*-FACW), white vervain (*Verbena urticifolia*-FACU), summer grape, Virginia creeper (*Parthenocissus quinquefolia*-FACU), and poison ivy on the ground plain. Underlying non-hydric soils have a matrix color of 10YR3/2 with no mottles in the A horizon and 10YR4/2 to 10YR4/3 (brown) with no mottles in the B horizon. There are no indicators of wetland hydrology in the adjacent uplands.

Other Site Uplands

To be representative of the remaining site uplands, additional data points were taken. In the middle of the stretching eastward wooded slope, dominant vegetation included green ash trees, common buckthorn, multiflora rose, and black raspberry shrubs; with common strawberry (*Fragaria virginiana*-FACU), small white aster (*Aster vimineus*-FACU), and yellow wood sorrel (*Oxalis europaea*-UPL) on the ground plain. (Photo 5 and 6). Underlying non-hydric soils have a matrix color of 10YR4/3 with and without high chroma mottles in the A horizon and 10YR4/3 with high chroma mottles in the B horizon. Hydrologic characters are absent.

Farther up the slope to the east is characterized as a successional forest (Photo 7) dominated by white oak (*Quercus alba*-FACU), shagbark hickory (*Carya ovata*-FACU), beech (*Fagus grandifolia*-FACU), sugar maple (*Acer saccharum*-FACU), eastern hop-hornbeam (*Ostrya virginiana*-FACU), American elm (*Ulmus americana*-FACW), and Northern prickly ash (*Xanthoxylum americanum*-UPL) saplings and trees. Underlying non-hydric soils have a matrix color of 10YR6/3 (pale brown) with no mottles in both the A and B horizons. Hydrologic characters are absent.

The last area was the successional old-hay field in the long narrow area to the east and that fronts on Lincoln Hill Road. (Photo 8). Characteristic herbaceous vegetation includes red clover (*Trifolium pratense*-FACU), wild madder, common dandelion, wild carrot (*Daucus carota*-UPL), common hawk weed (*Hieracium vulgatum*-UPL), English plantain (*Plantago lanceolata*-UPL), and upland grasses. Underlying non-hydric soils have a matrix color of 10YR4/3 without mottles in both the A and B horizons. Hydrologic characters are absent.

WETLAND FUNCTIONS AND SERVICES

Activities affecting wetlands have been regulated because these areas can provide various functions and services, including 1) natural products for human use, 2) habitat for fish and wildlife, 3) habitat for rare plant and animal species, 4) opportunities for recreation, education, and aesthetic appreciation, 5) flood protection, 6) water quality improvement, 7) shoreline erosion control, and 8) groundwater recharge and discharge. The functions and services provided by this property's wetlands are wildlife habitat, surface water collection, limited flood protection, and water quality improvement. Recreation and educational values are limited due to the private ownership of the property. No rare, threatened species (flora or fauna) were found.

CONCLUSIONS

Based on our review of existing data and field conditions, it was determined that one scrub-shrub wetland is present on the study area, and an excavated intermittent drainage that crosses the western portion of the study area from north to south. The U.S. Army Corps of Engineers will make the final jurisdictional determination of the on-site water resources based on their site visit and review of historical maps and aerial photographs.

REGULATORY GUIDANCE

The discharge of fill material into jurisdictional wetland areas, as determined by USACE, resulting in the loss of <0.10 acres will likely qualify for Nationwide Permit 29 (NWP 29) requiring pre-construction notification to USACE, with no compensatory mitigation requirement. Wetland fills between 0.10 and 0.50 acres should qualify for NWP 29, requiring pre-construction notification to USACE, including plans for compensatory wetland mitigation.

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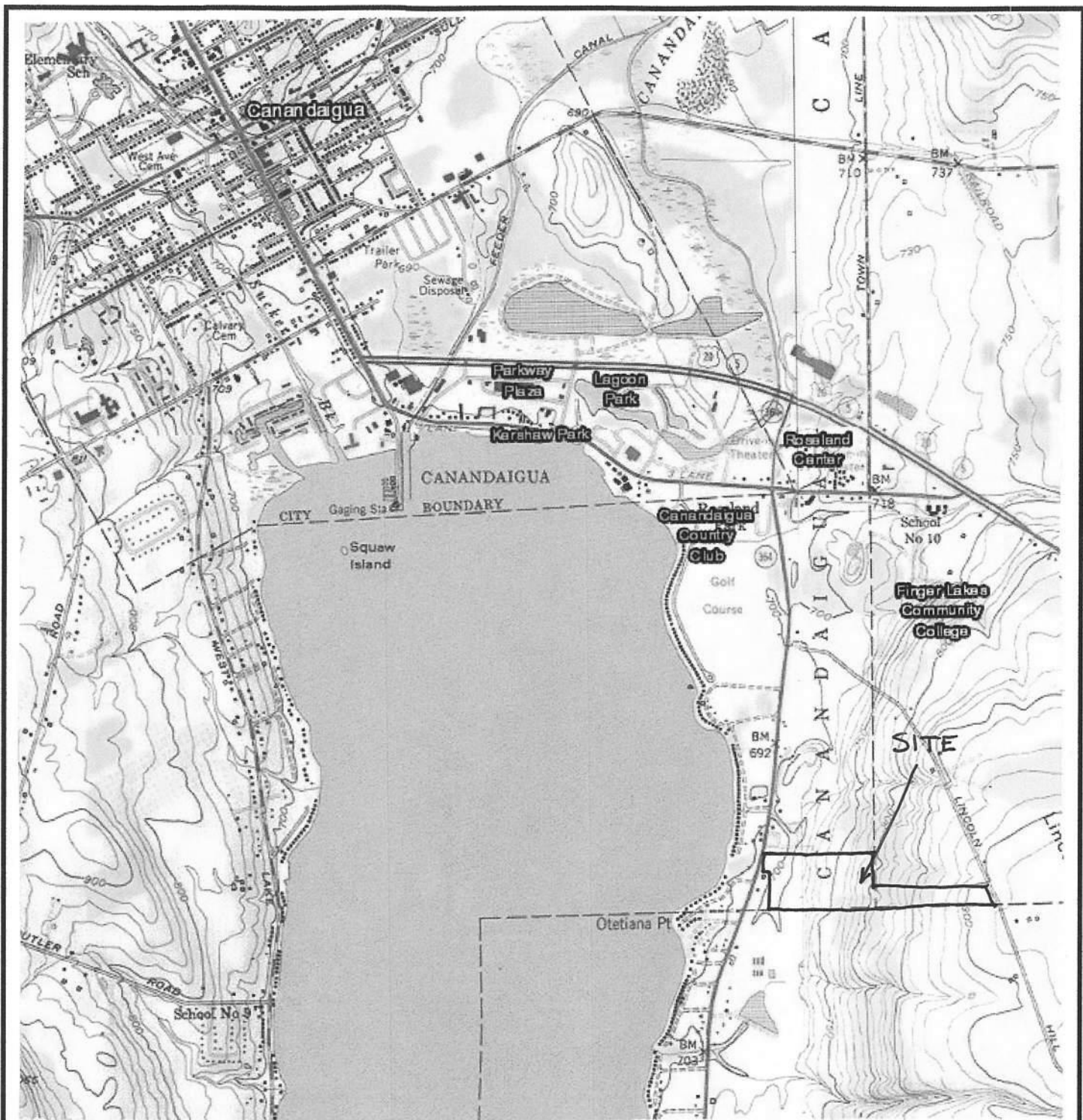
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www.websoilsurvey.nrcs.usda.gov

APPENDIX A

Figures



Prepared By: *Environmental Resources, LLC*


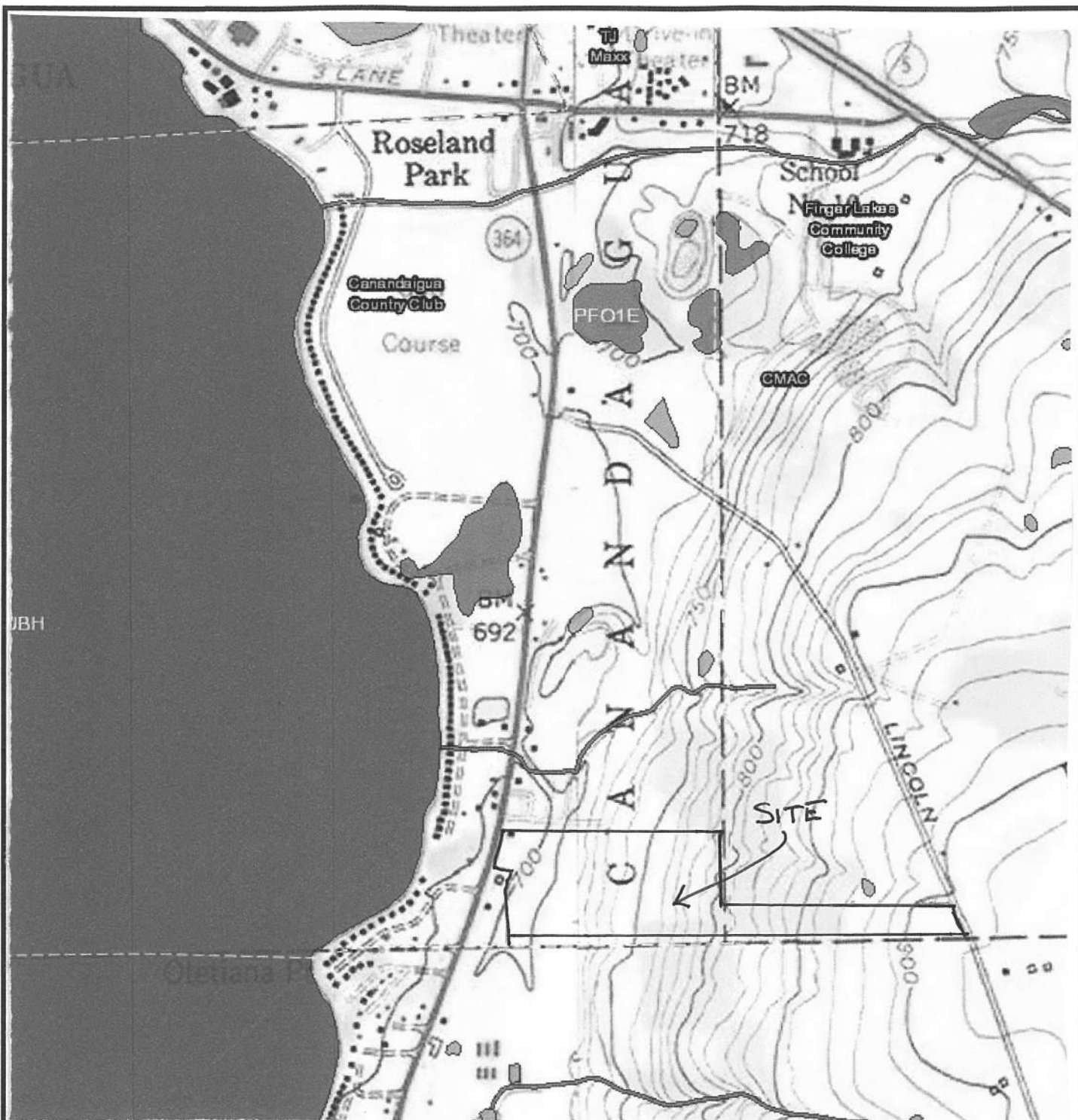
Legend:  Site Boundary
 Base Map: USGS Quadrangle.
 Canandaigua Lake and Rshville, NY

FIGURE 1. SITE LOCATION



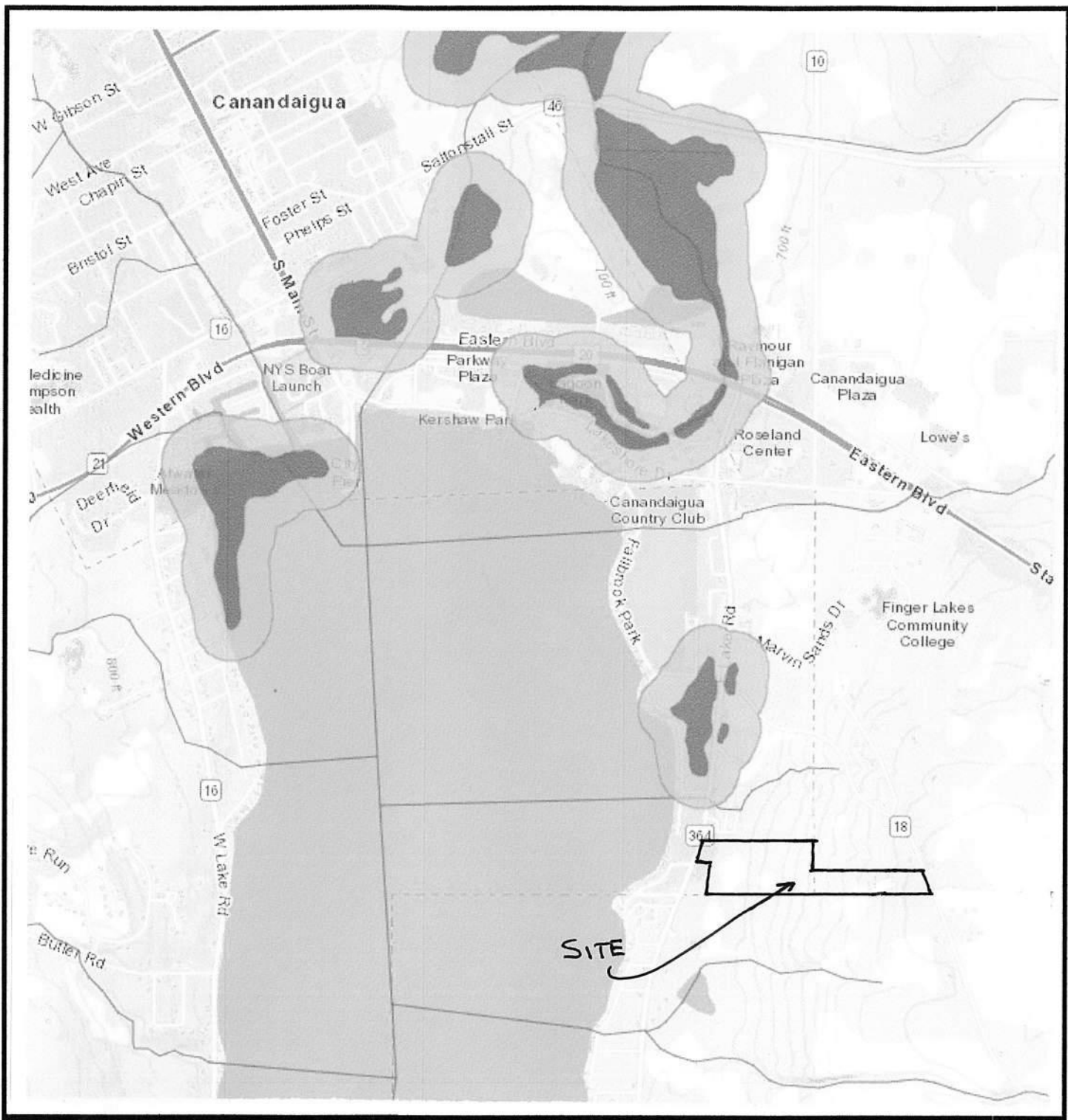


Prepared By: *Environmental Resources, LLC*

Legend:  Site Boundary
 Base Map: U.S. Fish & Wildlife Service,
 National Wetlands Inventory Mapper



FIGURE 2. FEDERAL WETLANDS



Prepared By: ***Environmental Resources, LLC***


Legend:  Site Boundary
Base Map: NYSDEC Environmental Resource Mapper

FIGURE 3. STATE WETLANDS





Prepared By: Environmental Resources, LLC

Legend: Site Boundary
Base Map: WebSoil Survey

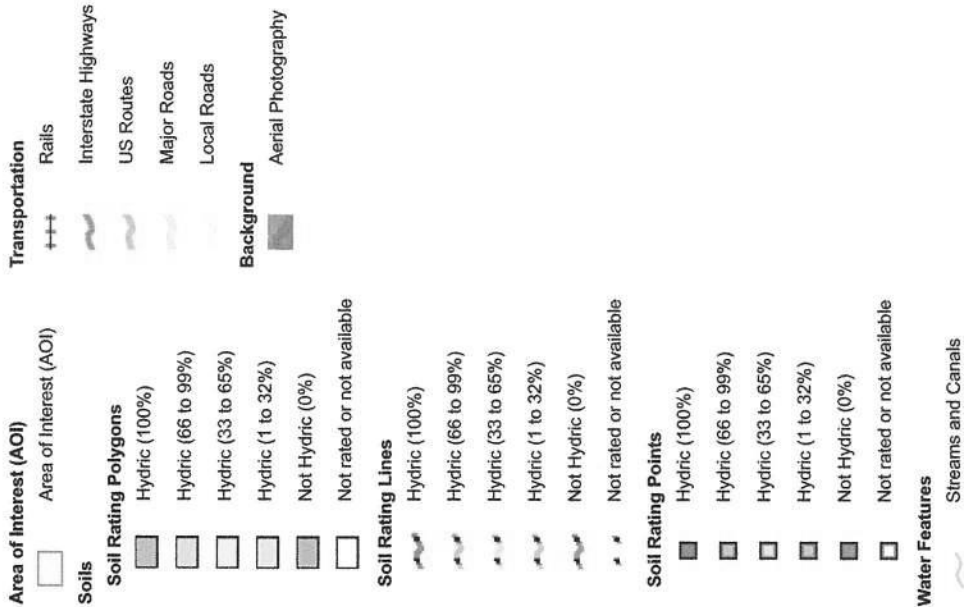
FIGURE 4. SOILS



Hydric Rating by Map Unit

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
71A	Darien silt loam, 0 to 3 percent slopes	4	1.6	3.8%
71B	Darien silt loam, 3 to 8 percent slopes	4	18.3	43.2%
71C	Darien silt loam, 8 to 15 percent slopes	4	13.1	30.9%
116C	Ontario loam, 8 to 15 percent slopes	0	1.8	4.1%
201A	Lima loam, 0 to 3 percent slopes	2	0.1	0.2%
304A	Kendaia loam, 0 to 3 percent slopes	5	7.5	17.7%
Totals for Area of Interest			42.4	100.0%

MAP LEGEND



MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:12,000.

Warning: Soil Map may not be valid at this scale.
Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

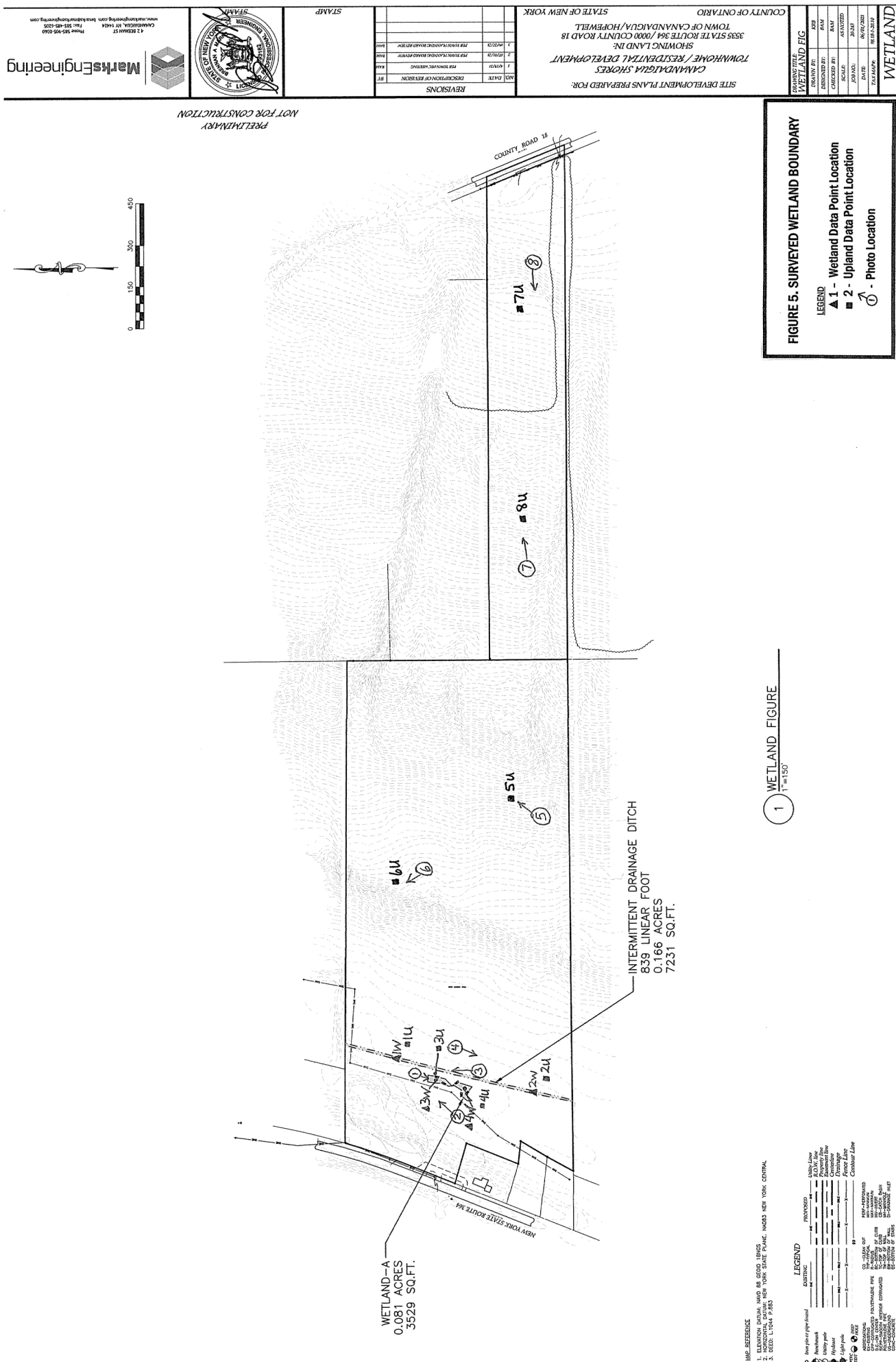
This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Ontario County, New York
Survey Area Data: Version 19, Sep 1, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jun 4, 2020—Jun 17, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



APPENDIX B

Data Sheets

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canadagwa Shores City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 165
 Investigator(s): G. Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.512310 Long: -77.150330 Datum: _____
 Soil Map Unit Name: Kendara NWI classification: Intermittent Drainage
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: <u>B-8</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	

Remarks: (Explain alternative procedures here or in a separate report.)
DRAINAGE 8' wide
2 1/2-3' BANKS
SILT BED NO WATER

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input checked="" type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input checked="" type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> Microtopographic Relief (D4) <input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes _____ No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

SOIL

Sampling Point: 1W

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (LRR R, MLRA 149B)

- ___ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- ___ Thin Dark Surface (S9) (LRR R, MLRA 149B)
- ___ Loamy Mucky Mineral (F1) (LRR K, L)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ☒ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ___ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
 ___ Coast Prairie Redox (A16) (LRR K, L, R)
 ___ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
 ___ Dark Surface (S7) (LRR K, L)
 ___ Polyvalue Below Surface (S8) (LRR K, L)
 ___ Thin Dark Surface (S9) (LRR K, L)
 ___ Iron-Manganese Masses (F12) (LRR K, L, R)
 ___ Piedmont Floodplain Soils (F19) (MLRA 149B)
 ___ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
 ___ Red Parent Material (TF2)
 ___ Very Shallow Dark Surface (TF12)
 ___ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes X No

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point: 14

Tree Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				
5.				
6.				
7.				

= Total Cover

Sapling/Shrub Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>CORVUS AMERICANUS</u>	<u>50</u>	<u>X</u>	<u>FACW</u>
2.				
3.				
4.				
5.				
6.				
7.				

= Total Cover

Herb Stratum (Plot size: <u>5'</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.	<u>LYCOPHIS EUROPAEA</u>	<u>30</u>	<u>X</u>	<u>OBL</u>
2.	<u>ALISMA SUBCORNUTUM</u>	<u>50</u>	<u>X</u>	<u>OBL</u>
3.	<u>ASTER SEMOLEX</u>	<u>30</u>	<u>X</u>	<u>FACW</u>
4.	<u>IMPATIENS PAUCIFLORA</u>	<u>20</u>	<u>X</u>	<u>FACW</u>
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

= Total Cover

Woody Vine Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species?	Indicator Status
1.				
2.				
3.				
4.				

= Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

☒ Rapid Test for Hydrophytic Vegetation

— Dominance Test is >50%

— Prevalence Index is ≤3.0

— Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

— Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canadagva Shores-Plot 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 14
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.512322 Long: 77.150299 Datum: _____
 Soil Map Unit Name: Kendara NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: <u>B8</u>
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	

Remarks: (Explain alternative procedures here or in a separate report.)

Successional shrub/woodlot uplands

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

☐ Surface Water (A1)
☐ High Water Table (A2)
☐ Saturation (A3)
☐ Water Marks (B1)
☐ Sediment Deposits (B2)
☐ Drift Deposits (B3)
☐ Algal Mat or Crust (B4)
☐ Iron Deposits (B5)
☐ Inundation Visible on Aerial Imagery (B7)
☐ Sparsely Vegetated Concave Surface (B8)

☐ Water-Stained Leaves (B9)
☐ Aquatic Fauna (B13)
☐ Marl Deposits (B15)
☐ Hydrogen Sulfide Odor (C1)
☐ Oxidized Rhizospheres on Living Roots (C3)
☐ Presence of Reduced Iron (C4)
☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Thin Muck Surface (C7)
☐ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

☐ Surface Soil Cracks (B6)
☐ Drainage Patterns (B10)
☐ Moss Trim Lines (B16)
☐ Dry-Season Water Table (C2)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Stunted or Stressed Plants (D1)
☐ Geomorphic Position (D2)
☐ Shallow Aquitard (D3)
☐ Microtopographic Relief (D4)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____ Depth (inches): _____
 Water Table Present? Yes _____ No _____ Depth (inches): _____
 Saturation Present? Yes _____ No _____ Depth (inches): _____
 (includes capillary fringe)

Wetland Hydrology Present? Yes _____ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sampling Point: 14

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes _____ No X

1. *Myocardial infarction* (MI) is a leading cause of death in the United States. It is a disease of the heart muscle, which is caused by a blockage of the coronary arteries. The blockage is usually caused by a blood clot that has formed in the artery. The clot is usually caused by atherosclerosis, a condition in which the arteries become narrowed and hardened by a buildup of fatty material, called plaque, in the inner wall of the artery. The plaque can rupture, causing a blood clot to form. The clot can then travel through the bloodstream and block a coronary artery. This can cause a heart attack. The heart muscle is damaged by the lack of oxygen and nutrients that are blocked from reaching it. The damage can be permanent, and the heart may not be able to pump blood effectively. This can lead to heart failure, a condition in which the heart is unable to pump enough blood to meet the body's needs. Heart failure can be a life-threatening condition. It is important to seek medical attention if you experience symptoms of a heart attack, such as chest pain, shortness of breath, and sweating. Early treatment can help to minimize damage to the heart muscle and improve the chances of survival. There are several ways to prevent a heart attack, including maintaining a healthy diet, exercising regularly, and not smoking. It is also important to manage any underlying medical conditions, such as high blood pressure and diabetes. If you have any concerns about your heart health, please consult your doctor.

VEGETATION - Use scientific names of plants.

Sampling Point 14

Tree Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
1.	<u>ACER NEGUNDO</u>	<u>10</u>		<u>FAC</u>	
2.	<u>FRAXYNUS PRAENSILVICA</u>	<u>20</u>	<u>X</u>	<u>FACW</u>	
3.					
4.					
5.					
6.					
7.					
Sapling/Shrub Stratum (Plot size: <u>30'</u>)		<u>30</u> = Total Cover			
1.	<u>ROSA MULTIFLORA</u>	<u>30</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <input type="checkbox"/> Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2.	<u>LOWNCEA TATARICA</u>	<u>25</u>	<u>X</u>	<u>FACU</u>	
3.	<u>RHAMNUS CATHARTICA</u>	<u>70</u>	<u>X</u>	<u>FAC</u>	
4.	<u>RUBUS OCCIDENTALIS</u>	<u>20</u>	<u>X</u>	<u>UPL</u>	
5.					
6.					
7.					
Herb Stratum (Plot size: <u>5'</u>)		<u>145</u> = Total Cover			
1.	<u>EMODIUM PALLIDUM</u>	<u>10</u>		<u>FACU</u>	Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2.	<u>AGROSTIS PARVIFLORA</u>	<u>10</u>		<u>FACU</u>	
3.	<u>PRUNELLA VULGARIS</u>	<u>10</u>		<u>FACU</u>	
4.	<u>ASTER SIMPLEX</u>	<u>30</u>	<u>X</u>	<u>FACU</u>	
5.	<u>GEUM CANADENSE</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	
6.					
7.					
8.					
9.					
10.					
11.					
12.					
Woody Vine Stratum (Plot size: <u>30'</u>)		<u>80</u> = Total Cover			
1.	<u>VITIS AESTIVALES</u>	<u>30</u>	<u>X</u>	<u>FACU</u>	Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
2.	<u>PARQUETOCISSUS QUINQUEFOIDA</u>	<u>10</u>		<u>FACU</u>	
3.					
4.					
		<u>40</u> = Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaigua Shores-Rt 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 2W
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.511899 Long: 77.150472 Datum: _____
 Soil Map Unit Name: Kendara NWI classification: Intermittent Drainage
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Hydric Soil Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	If yes, optional Wetland Site ID: <u>B 18</u>
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	

Remarks: (Explain alternative procedures here or in a separate report.)
WETLAND DRAINAGE (INTERMITTENT)
8-10' wide
1 1/2' below grade
silt bed

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input checked="" type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input checked="" type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	

Field Observations:		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Surface Water Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/>	Depth (inches): _____	

(Includes capillary fringe)

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sampling Point: Zw

[illegible]

²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- ^aIndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes / No

US Army, 1945-1946

VEGETATION - Use scientific names of plants.

Sampling Point 2W

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet
1. <u>FRAXINUS PRAENSILANSA</u>	<u>70</u>	<u>X</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
2. <u>(ON BANKS)</u>				Total Number of Dominant Species Across All Strata: _____ (B)
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
4.				
5.				
6.				
7.				
<p><u>70</u> = Total Cover</p>				<p>Prevalence Index worksheet</p> <p>Total % Cover of: _____ Multiply by: _____</p> <p>OBL species _____ x 1 = _____</p> <p>FACW species _____ x 2 = _____</p> <p>FAC species _____ x 3 = _____</p> <p>FACU species _____ x 4 = _____</p> <p>UPL species _____ x 5 = _____</p> <p>Column Totals: _____ (A) _____ (B)</p> <p>Prevalence Index = B/A = _____</p>
Sapling/Shrub Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>RHAMNUS CATHARTICA</u>	<u>50</u>	<u>X</u>	<u>FAC</u>	<input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation
2. <u>ON BANKS</u>				<input type="checkbox"/> Dominance Test is >50%
3.				<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
4.				<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5.				<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
6.				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				
<p><u>50</u> = Total Cover</p>				<p>Definitions of Vegetation Strata:</p> <p>Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p> <p>Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</p> <p>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p> <p>Woody vines - All woody vines greater than 3.28 ft in height.</p>
Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>IMPATIENS PALLIDA</u>	<u>30</u>	<u>X</u>	<u>FACW</u>	
2. <u>ON BANKS</u>	<u>100</u>	<u>X</u>	<u>FACW</u>	
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
<p><u>130</u> = Total Cover</p>				
Woody Vine Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1.				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2.				
3.				
4.				
<p>_____ = Total Cover</p>				
<p>Remarks: (Include photo numbers here or on a separate sheet.)</p>				

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaigua Shores Rt 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 2U
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.511884 Long: 77.150432 Datum: _____
 Soil Map Unit Name: Kendaia NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: <u>B18</u>
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Successful scrub-shrub/wood lot up lands</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>None</u>		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes _____ No _____ Depth (inches): _____		
Water Table Present? Yes _____ No _____ Depth (inches): _____		
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Sampling Point: 24

[illegible]

Indicators for Problematic Hydric Soils³:

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes No ☒[illegible]

VEGETATION - Use scientific names of plants.

Sampling Point 24

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>FRAXINUS PENNSYLVANICA</u>	<u>40</u>	<u>X</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
2. <u>POPULUS TREMULA</u>	<u>50</u>	<u>X</u>	<u>FACU</u>	
3. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: _____ (B)
4. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	Prevalence Index worksheet:
7. _____	_____	_____	_____	
<p><u>90</u> = Total Cover</p>				<p>Total % Cover of: _____ Multiply by: _____</p>
<p>Sapling/Shrub Stratum (Plot size: <u>30'</u>)</p>				<p>OBL species _____ x 1 = _____</p>
1. <u>RHAMNUS CATHARTICA</u>	<u>70</u>	<u>X</u>	<u>FAC</u>	FACW species <u>50</u> x 2 = <u>100</u>
2. <u>CORNUS RACEMOSA</u>	<u>40</u>	<u>X</u>	<u>FAC</u>	FAC species <u>170</u> x 3 = <u>310</u>
3. <u>ROSA MULTIFLORA</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	FACU species <u>145</u> x 4 = <u>580</u>
4. <u>LAMNACEA TATARICA</u>	<u>10</u>	_____	<u>FACU</u>	UPL species _____ x 5 = _____
5. _____	_____	_____	_____	Column Totals: <u>365</u> (A) <u>990</u> (B)
6. _____	_____	_____	_____	Prevalence Index = B/A = <u>2.71</u>
7. _____	_____	_____	_____	Hydrophytic Vegetation Indicators:
<p><u>140</u> = Total Cover</p>				
<p>Herb Stratum (Plot size: <u>5'</u>)</p>				<p>___ Rapid Test for Hydrophytic Vegetation</p>
1. <u>ALFACIA PETIOLATA</u>	<u>30</u>	<u>X</u>	<u>FACU</u>	___ Dominance Test is >50%
2. <u>GRUIN CANADENSE</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	___ Prevalence Index is ≤3.0 ¹
3. <u>VERBENA URTOLEFOLIA</u>	<u>10</u>	_____	<u>FACU</u>	___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. <u>IMPATIENS PALIDA</u>	<u>10</u>	_____	<u>FACU</u>	___ Problematic Hydrophytic Vegetation ¹ (Explain)
5. <u>AGREMONIA GRYPSEALIA</u>	<u>5</u>	_____	<u>FACU</u>	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	Definitions of Vegetation Strata:
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	<p>Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</p>
10. _____	_____	_____	_____	<p>Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</p>
11. _____	_____	_____	_____	<p>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</p>
12. _____	_____	_____	_____	<p>Woody vines - All woody vines greater than 3.28 ft in height.</p>
<p><u>75</u> = Total Cover</p>				Hydrophytic Vegetation Present? Yes <u>X</u> No _____
<p>Woody Vine Stratum (Plot size: <u>30'</u>)</p>				
1. <u>TOXICODENDRON RADICANS</u>	<u>60</u>	<u>X</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<p><u>100</u> = Total Cover</p>				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaigua Shores Rt 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 311
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.512141 Long: 77.150443 Datum: PSSIE
 Soil Map Unit Name: Kendama NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: <u>A</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Small depressional area seasonally flooded</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____		
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____		
Saturation Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____		
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			

Sampling Point: 36

[illegible]²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- ³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes ☒ No ☐

25 April 2005

VEGETATION - Use scientific names of plants.

Sampling Point: 3 W

Tree Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.	<u>FRAXINUS PENNSYLVANICA</u>	<u>100</u>	<u>X</u>	<u>PACU</u>
2.				
3.				
4.				
5.				
6.				
7.				

Sapling/Shrub Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.	<u>FRAXINUS CARINATA</u>	<u>40</u>	<u>X</u>	<u>FAC</u>
2.	<u>F. PENNSYLVANICA</u>	<u>40</u>	<u>X</u>	<u>FACU</u>
3.				
4.				
5.				
6.				
7.				

Herb Stratum (Plot size: <u>5'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.	<u>F. PENNSYLVANICA</u>	<u>15</u>		<u>FACU</u>
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

Woody Vine Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.				
2.				
3.				
4.				

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

☒ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is <3.0¹

___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.8 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes ☒ No _____

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canadagwa Shores Pt 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 34
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.512120 Long: 77.150416 Datum: _____
 Soil Map Unit Name: Kendaia NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Successional shrub Woodlot uplands.</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) <u>None</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes _____ No _____ Depth (inches): _____		
Water Table Present? Yes _____ No _____ Depth (inches): _____		
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Sampling Point: 34

[illegible]

Indicators for Problematic Hydric Soils³:

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Hydric Soil Present? Yes _____ No X

* *Journal of the American Statistical Association*, 1979, 74, 101-109.

VEGETATION - Use scientific names of plants.

Sampling Point 30

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>PERNIX SP.</u>	<u>10</u>		<u>FACU</u>	Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>40</u> (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>10</u> = Total Cover				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: <u>30'</u>)				Total % Cover of: _____ Multiply by: _____
1. <u>ROSA CANADENSIS</u>	<u>70</u>	<u>X</u>	<u>FAC</u>	OBL species _____ x 1 = _____
2. <u>ROSA ALBA</u>	<u>40</u>	<u>X</u>	<u>FACU</u>	FACW species _____ x 2 = _____
3. <u>RUBUS OCCIDENTALIS</u>	<u>10</u>		<u>UPL</u>	FAC species _____ x 3 = _____
4. _____	_____	_____	_____	FACU species _____ x 4 = _____
5. _____	_____	_____	_____	UPL species _____ x 5 = _____
6. _____	_____	_____	_____	Column Totals: _____ (A) _____ (B)
7. _____	_____	_____	_____	Prevalence Index = A/B = _____
<u>120</u> = Total Cover				Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: <u>5'</u>)				_____ Rapid Test for Hydrophytic Vegetation
1. <u>GRASS CANADENSE</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	_____ Dominance Test is >50%
2. <u>SOLEDADO CANADENSES</u>	<u>20</u>	<u>X</u>	<u>FACU</u>	_____ Prevalence Index is ≤3.0 ¹
3. <u>ASTER SMOLAR</u>	<u>20</u>		<u>FACW</u>	_____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
4. _____	_____	_____	_____	_____ Problematic Hydrophytic Vegetation ¹ (Explain)
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>60</u> = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size: <u>30'</u>)				Definitions of Vegetation Strata:
1. <u>TOXICODENDRON RADICIS</u>	<u>20</u>	<u>X</u>	<u>FAC</u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
2. <u>VITIS AESTIVUS</u>	<u>10</u>		<u>FACU</u>	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3. _____	_____	_____	_____	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
4. _____	_____	_____	_____	Woody vines - All woody vines greater than 3.28 ft in height.
<u>30</u> = Total Cover				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canadagwa Shores Pt 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 4W
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.512089 Long: 77.150479 Datum: _____
 Soil Map Unit Name: Kendaia NWI classification: PSSIE
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No _____
Hydric Soil Present? Yes <input checked="" type="checkbox"/> No _____	If yes, optional Wetland Site ID: <u>A9</u>
Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Scrub-shrub wetlands.</u> <u>SEASONALLY FLOODED</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input checked="" type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input checked="" type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input checked="" type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Water Table Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
Saturation Present? Yes _____ No <input checked="" type="checkbox"/>	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Sampling Point: 4 W

[illegible]²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histisol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

Restrictive Layer (If observed):

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

25 Army - 2000 - 2001 - 2002

VEGETATION - Use scientific names of plants.

Sampling Point 440

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>FRAXINUS PENNSYLVANICA</u>	<u>60</u>	<u>X</u>	<u>FACW</u>	Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: _____ (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<p><u>60</u> = Total Cover</p>				<p>Prevalence Index worksheet:</p> <p>Total % Cover of: _____ Multiply by: _____</p> <p>OBL species _____ x 1 = _____</p> <p>FACW species _____ x 2 = _____</p> <p>FAC species _____ x 3 = _____</p> <p>FACU species _____ x 4 = _____</p> <p>UPL species _____ x 5 = _____</p> <p>Column Totals: _____ (A) _____ (B)</p> <p>Prevalence Index = B/A = _____</p>
Sapling/Shrub Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Indicators:
1. <u>F. PENNSYLVANICA</u>	<u>60</u>	<u>X</u>	<u>FACW</u>	<input checked="" type="checkbox"/> Rapid Test for Hydrophytic Vegetation
2. <u>RHAMNUS CATHARTICA</u>	<u>20</u>	<u>X</u>	<u>FAC</u>	<input type="checkbox"/> Dominance Test is >50%
3. _____	_____	_____	_____	<input type="checkbox"/> Prevalence Index is ≤3.0 ¹
4. _____	_____	_____	_____	<input type="checkbox"/> Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
5. _____	_____	_____	_____	<input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<p><u>80</u> = Total Cover</p>				<p>¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</p>
Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Definitions of Vegetation Strata:
1. <u>F. PENNSYLVANICA</u>	<u>20</u>	<u>X</u>	<u>FACW</u>	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
2. _____	_____	_____	_____	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3. _____	_____	_____	_____	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
4. _____	_____	_____	_____	Woody vines - All woody vines greater than 3.28 ft in height.
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<p><u>20</u> = Total Cover</p>				
Woody Vine Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Hydrophytic Vegetation Present?
1. _____	_____	_____	_____	Yes <u>X</u> No _____
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<p>_____ = Total Cover</p>				

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaigua Shores - RT-364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 400
 Investigator(s): G. Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.512097 Long: 77.150539 Datum: _____
 Soil Map Unit Name: Kendaia NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: <u>A 9</u>
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>SS/mowed wide path upland.</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes _____ No _____	Depth (inches): _____	
Water Table Present? Yes _____ No _____	Depth (inches): _____	
Saturation Present? Yes _____ No _____	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

SOIL

Sampling Point: 44

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-18	10YR2.3/2	100	—	—	—	—	cl. lo.	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- ☐ Histosol (A1)
☐ Histic Epipedon (A2)
☐ Black Histic (A3)
☐ Hydrogen Sulfide (A4)
☐ Stratified Layers (A5)
☐ Depleted Below Dark Surface (A11)
☐ Thick Dark Surface (A12)
☐ Sandy Mucky Mineral (S1)
☐ Sandy Gleyed Matrix (S4)
☐ Sandy Redox (S5)
☐ Stripped Matrix (S6)
☐ Dark Surface (S7) (LRR R, MLRA 149B)

- ☐ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
☐ Thin Dark Surface (S9) (LRR R, MLRA 149B)
☐ Loamy Mucky Mineral (F1) (LRR K, L)
☐ Loamy Gleyed Matrix (F2)
☐ Depleted Matrix (F3)
☐ Redox Dark Surface (F6)
☐ Depleted Dark Surface (F7)
☐ Redox Depressions (F8)

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Coast Prairie Redox (A16) (LRR K, L, R)
☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Dark Surface (S7) (LRR K, L)
☐ Polyvalue Below Surface (S8) (LRR K, L)
☐ Thin Dark Surface (S9) (LRR K, L)
☐ Iron-Manganese Masses (F12) (LRR K, L, R)
☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes _____ No X

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point 44

Tree Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.				
2.				
3.				
4.				
5.				
6.				
7.				

= Total Cover

Sapling/Shrub Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.	<u>RHAMNUS CATHARTICA</u>	<u>50</u>	<u>X</u>	<u>FAC</u>
2.	<u>ROSA MULTIFLORA</u>	<u>20</u>	<u>X</u>	<u>FACU</u>
3.				
4.				
5.				
6.				
7.				

= Total Cover

Herb Stratum (Plot size: <u>5'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.	<u>PRUNELLA VULGARIS</u>	<u>50</u>	<u>X</u>	<u>FACU</u>
2.	<u>GALTHERIA MULLUGO</u>	<u>45</u>	<u>X</u>	<u>UPL</u>
3.	<u>LOTUS CORNICULATUS</u>	<u>50</u>	<u>X</u>	<u>FACU</u>
4.	<u>TAICHOCTHUS OFFICINALE</u>	<u>30</u>	<u>X</u>	<u>FACU</u>
5.	<u>STELMUM CRANDENSE</u>	<u>20</u>	<u>X</u>	<u>FACU</u>
6.	<u>ASTER SIMPLEX</u>	<u>20</u>	<u>X</u>	<u>FACU</u>
7.				
8.				
9.				
10.				
11.				
12.				

= Total Cover

Woody Vine Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.				
2.				
3.				
4.				

= Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 8 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 13 (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species _____	x 2 = _____
FAC species _____	x 3 = _____
FACU species _____	x 4 = _____
UPL species _____	x 5 = _____
Column Totals: _____	(A) _____ (B) _____

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

___ Rapid Test for Hydrophytic Vegetation

___ Dominance Test is >50%

___ Prevalence Index is <3.0¹

___ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaigua Shores-RT 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 5U
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.512659 Long: 77.145075 Datum: _____
 Soil Map Unit Name: Darien NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Successional shrub/woodlot.</u> <u>Uplands</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) <u>None</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes _____ No _____ Depth (inches): _____		
Water Table Present? Yes _____ No _____ Depth (inches): _____		
Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Sampling Point: 54

[illegible]

Indicators for Problematic Hydric Soils³:

- Hydric Soil Present? Yes
- ☐
- No
- ☒

^a The values are given as mean ± SD.

VEGETATION - Use scientific names of plants.

Sampling Point 50

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>FRAXINUS PENNSYLVANICA</u>	<u>70</u>	<u>X</u>	<u>FACU</u>
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

70 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>PHAMMUS CATARTICA</u>	<u>48</u>	<u>X</u>	<u>FAC</u>
2. <u>CATALPA BIGNONIOLIDES</u>	<u>50</u>	_____	<u>UPC</u>
3. <u>ROSA MULTIFLORA</u>	<u>30</u>	<u>X</u>	<u>FACU</u>
4. <u>RUBUS OCCIDENTALIS</u>	<u>40</u>	<u>X</u>	<u>FACU</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____

110 = Total Cover

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. <u>FRAGARIA VIRGINIANA</u>	<u>30</u>	<u>X</u>	<u>FACU</u>
2. <u>OXALIS EUROPAEA</u>	<u>10</u>	_____	<u>UPC</u>
3. <u>ASTER VERMILIVUS</u>	<u>40</u>	<u>X</u>	<u>FAC</u>
4. <u>AGREMONIA GRYPPOSEPALA</u>	<u>20</u>	_____	<u>FACU</u>
5. _____	_____	_____	_____
6. _____	_____	_____	_____
7. _____	_____	_____	_____
8. _____	_____	_____	_____
9. _____	_____	_____	_____
10. _____	_____	_____	_____
11. _____	_____	_____	_____
12. _____	_____	_____	_____

100 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____	_____	_____	_____
2. _____	_____	_____	_____
3. _____	_____	_____	_____
4. _____	_____	_____	_____

_____ = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species <u>70</u>	x 2 = <u>140</u>
FAC species <u>50</u>	x 3 = <u>150</u>
FACU species <u>120</u>	x 4 = <u>480</u>
UPL species <u>20</u>	x 5 = <u>100</u>
Column Totals: <u>290</u> (A)	<u>960</u> (B)

Prevalence Index = B/A = 3.31

Hydrophytic Vegetation Indicators:

____ Rapid Test for Hydrophytic Vegetation

____ Dominance Test is >50%

____ Prevalence Index is <3.0¹

____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

____ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.

Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

Woody vines - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaigua Storage Pt 364 City/County: ONTARIO Sampling Date: 8/16/21

Applicant/Owner: _____ State: NY Sampling Point: 64

Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA

Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____

Slope (%): 10 W Lat: 42.512385 Long: 77.145345 Datum: _____

Soil Map Unit Name: Darion NWI classification: _____

Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)

Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____

Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.)	
<u>Successional Shrub uplands.</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes _____ No _____	Depth (inches): _____	
Water Table Present? Yes _____ No _____	Depth (inches): _____	
Saturation Present? Yes _____ No _____	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Sampling Point: 624

[illegible]

Indicators for Problematic Hydric Soils³:

Hydric Soil Present? Yes _____ No ✓

SS 10% sgr w.
none not cut (140)

VEGETATION - Use scientific names of plants.

Sampling Point 64

Tree Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.	<i>FRAXINUS PENNSYLVANICA</i>	<u>10</u>		<u>FACU</u>
2.				
3.				
4.				
5.				
6.				
7.				

10 = Total Cover

Sapling/Shrub Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.	<i>RHAMNUS CATHARTICA</i>	<u>80</u>		<u>X FAC</u>
2.				
3.				
4.				
5.				
6.				
7.				

80 = Total Cover

Herb Stratum (Plot size: <u>5'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.	<i>FRAXINUS PENNSYLVANICA</i>	<u>25</u>		<u>X FACW</u>
2.	<i>GEUM CIMA DENSE</i>	<u>20</u>		<u>X FACU</u>
3.	<i>FRAGARIA VIRGINIANA</i>	<u>15</u>		<u>FACU</u>
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				

60 = Total Cover

Woody Vine Stratum (Plot size: <u>30'</u>)		Absolute % Cover	Dominant Indicator Species?	Status
1.				
2.				
3.				
4.				

60 = Total Cover

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)

Total Number of Dominant Species Across All Strata: _____ (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

Prevalence Index worksheet:

Total % Cover of:	Multiply by:
OBL species _____	x 1 = _____
FACW species <u>35</u>	x 2 = <u>70</u>
FAC species <u>80</u>	x 3 = <u>240</u>
FACU species <u>35</u>	x 4 = <u>140</u>
UPL species _____	x 5 = _____
Column Totals: <u>150</u> (A)	<u>450</u> (B)

Prevalence Index = B/A = 3.0

Hydrophytic Vegetation Indicators:

- ☐ Rapid Test for Hydrophytic Vegetation
- ☐ Dominance Test is >50%
- ☐ Prevalence Index is <3.0¹
- ☐ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation¹ (Explain)

¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

- Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
- Sapling/shrub** - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
- Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
- Woody vines** - All woody vines greater than 3.28 ft in height.

Hydrophytic Vegetation Present?

Yes _____ No X

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaigua Shores - Rt 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 74
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.511944 Long: 77.142581 Datum: _____
 Soil Map Unit Name: Darien NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes _____ No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes _____ No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes _____ No <input checked="" type="checkbox"/>	

Remarks: (Explain alternative procedures here or in a separate report.)

OLD Hay Field
uplands.

HYDROLOGY

None

Wetland Hydrology Indicators:

Primary Indicators (minimum of one is required; check all that apply)

<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	

Secondary Indicators (minimum of two required)

<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Microtopographic Relief (D4)
<input type="checkbox"/> FAC-Neutral Test (D5)

Field Observations:

Surface Water Present? Yes _____ No _____	Depth (inches): _____
Water Table Present? Yes _____ No _____	Depth (inches): _____
Saturation Present? Yes _____ No _____	Depth (inches): _____

(includes capillary fringe)

Wetland Hydrology Present? Yes _____ No ☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Sampling Point: 74

Sampling Point: 10

[illegible]

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (TF2) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No ☒

Remarks:

VEGETATION - Use scientific names of plants.

Sampling Point

74

Tree Stratum (Plot size: 30')		Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A) Total Number of Dominant Species Across All Strata: _____ (B) Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)
1.					
2.					
3.					
4.					
5.					
6.					
7.					
Sapling/Shrub Stratum (Plot size: 30')		_____ = Total Cover			Hydrophytic Vegetation Indicators: ___ Rapid Test for Hydrophytic Vegetation ___ Dominance Test is >50% ___ Prevalence Index is ≤3.0 ¹ ___ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.					
2.					
3.					
4.					
5.					
6.					
Herb Stratum (Plot size: 5')		_____ = Total Cover			Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
1.	<i>DAUCUS CAROTA</i>	15		UPL	
2.	<i>CENTAUREA JACQEA</i>	15		UPL	
3.	<i>FRAGARIA VIRGINICA</i>	15		FACU	
4.	<i>TARAXACUM OFFICINALE</i>	20	X	FACU	
5.	<i>TRIFOLIUM PRATENSE</i>	50		FACU	
6.	<i>Galium mollugo</i>	40	X	UPL	
7.	<i>HEPERACIUM VULGATUM</i>	15		UPL	
8.	<i>PLANTAGO LANCEOLATA</i>	15		UPL	
9.	<i>UPRANT GRASSES</i>	70		FACU	
10.					
11.					
12.					
Woody Vine Stratum (Plot size: 30')		255 = Total Cover			Hydrophytic Vegetation Present? Yes _____ No <input checked="" type="checkbox"/>
1.					
2.					
3.					
		_____ = Total Cover			

Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaigua Shores - Rt 364 City/County: ONTARIO Sampling Date: 8/16/21
 Applicant/Owner: _____ State: NY Sampling Point: 8U
 Investigator(s): G Pellett and J. Huber Section, Township, Range: CANANDAIGUA
 Landform (hillslope, terrace, etc.): _____ Local relief (concave, convex, none): _____
 Slope (%): _____ Lat: 42.511941 Long: 77.143533 Datum: _____
 Soil Map Unit Name: Darien NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ☒ No _____ (If no, explain in Remarks.)
 Are Vegetation _____, Soil _____, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes ☒ No _____
 Are Vegetation _____, Soil _____, or Hydrology _____ naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes _____ No <u> </u>	Is the Sampled Area within a Wetland? Yes _____ No <u> </u>
Hydric Soil Present? Yes _____ No <u> </u>	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes _____ No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Deciduous Woods</u> <u>UPLANDS</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply) <u>NW</u>		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)
		<input type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes _____ No _____	Depth (inches): _____	
Water Table Present? Yes _____ No _____	Depth (inches): _____	
Saturation Present? Yes _____ No _____	Depth (inches): _____	
(includes capillary fringe)		Wetland Hydrology Present? Yes _____ No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Sampling Point: 2a

[illegible]

Hydric Soil Indicators:

- ___ Histosol (A1)
- ___ Histc Epipedon (A2)
- ___ Black Histc (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7) (LRR R, MLRA 149B)

- ___ Polyvalue Below Surface (S8) (LRR R, MLRA 149B)
- ___ Thin Dark Surface (S9) (LRR R, MLRA 149B)
- ___ Loamy Mucky Mineral (F1) (LRR K, L)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)

Indicators for Problematic Hydric Soils¹:

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Coast Prairie Redox (A16) (LRR K, L, R)
☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Dark Surface (S7) (LRR K, L)
☐ Polyvalue Below Surface (S8) (LRR K, L)
☐ Thin Dark Surface (S9) (LRR K, L)
☐ Iron-Manganese Masses (F12) (LRR K, L, R)
☐ Piedmont Floodplain Soils (F19) (MLRA 149B)
☐ Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
☐ Red Parent Material (TF2)
☐ Very Shallow Dark Surface (TF12)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed):

Type: _____

Depth (inches): _____

Hydric Soil Present? Yes No ☒

Remarks:

Sampling Point

84

Remarks: (Include photo numbers here or on a separate sheet.)

APPENDIX C

Photographs



PHOTO 1. View of scrub-shrub Wetland A.



PHOTO 2. Representative view of site uplands (including mowed trails) along the west side of Wetland A.



PHOTO 3. View of on-site channelized, intermittent drainage crossing the sites west end from north to south.



PHOTO 4. Representative view of successional shrub/woodlot uplands characterizing the western portion of the study area.



PHOTO 5. View of rising site uplands characterizing the south-central portion of the project at Data Point 5U.



PHOTO 6. Representative view of site uplands in the north-central portion of the project site at Data Point 6U.



PHOTO 7. View of successional forest uplands at Data Point 8U.



PHOTO 8. Old-hay field uplands representing the sites east end.