

# WETLAND DELINEATION REPORT

# Canandaigua Shores (3535 East Lake Road)

Town of Canandaigua, Ontario County New York

### Prepared For:

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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 though the site. The remainder of the site is a successional scrubshrub/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 sps.*-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-menot, 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 hophornbeam (*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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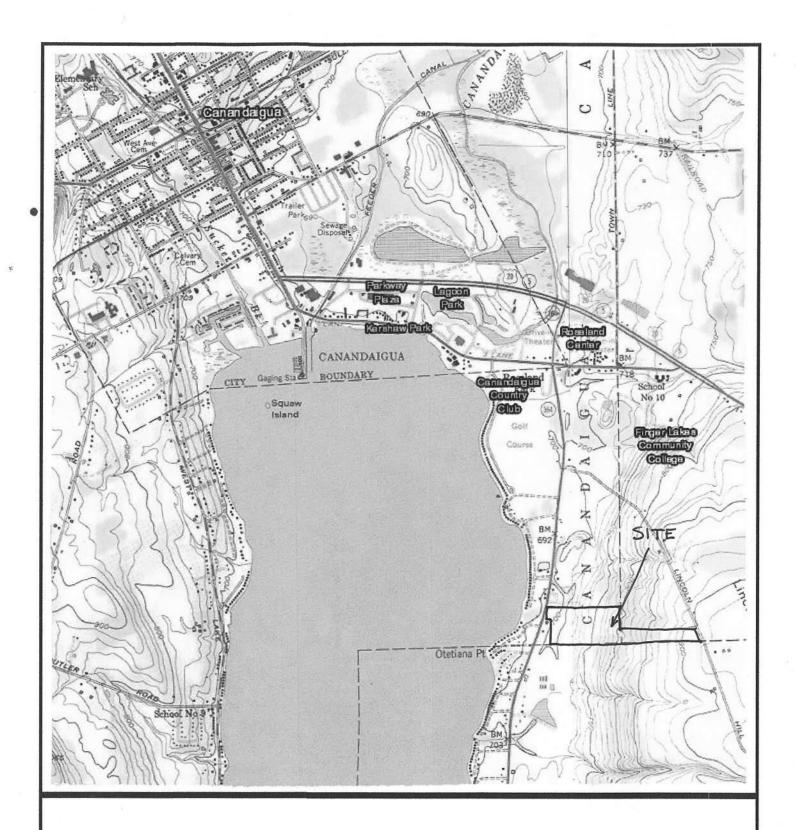
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www.websoilsurvey.nrcs.usda.gov

## APPENDIX A

**Figures** 



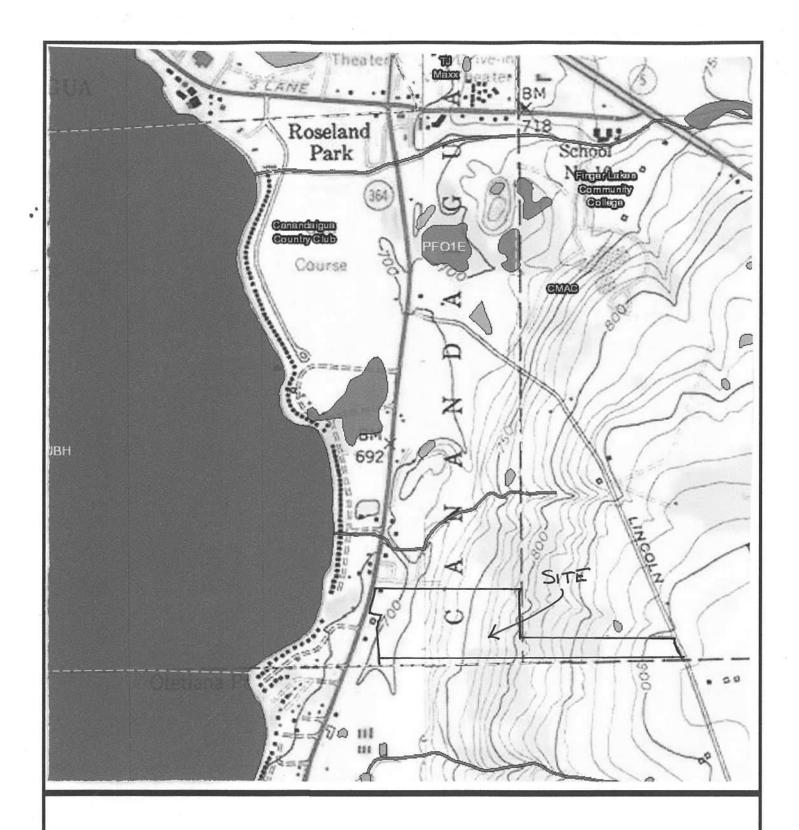
Legend: Site Boundary
Base Map: USGS Quadrangle.

Canandaigua Lake and Rsuhville, NY

**FIGURE 1. SITE LOCATION** 



N T

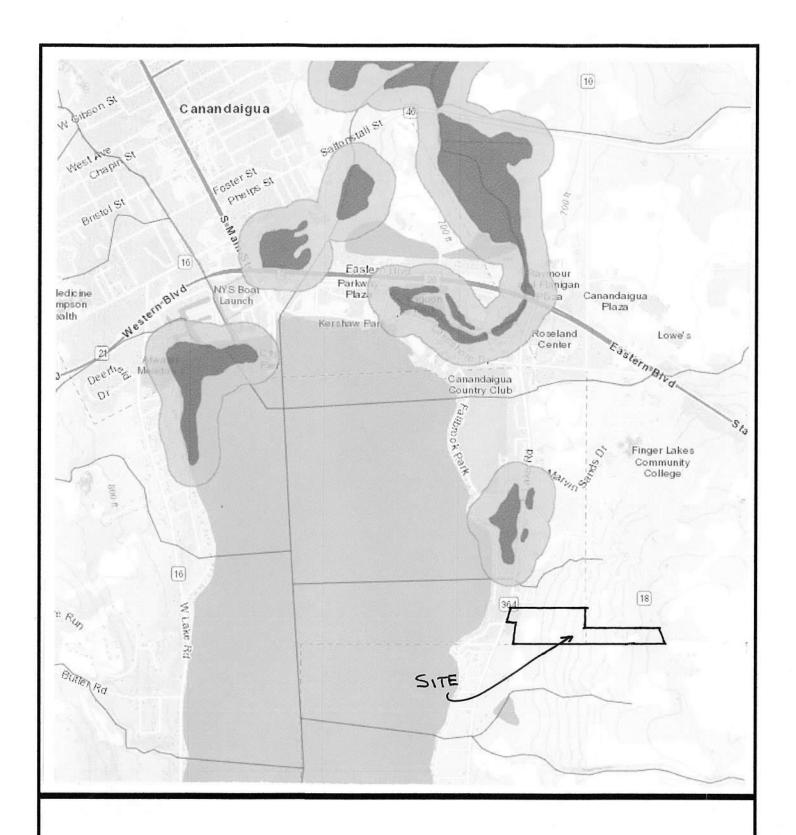


Legend: Site Boundary
Base Map: U.S. Fish & Wildlife Service,
National Wetlands Inventory Mapper

**FIGURE 2. FEDERAL WETLANDS** 



N †



Legend: Site Boundary
Base Map: NYSDEC Environmental Resource Mapper

FIGURE 3. STATE WETLANDS



N T



Legend:

Site Boundary

Base Map: WebSoil Survey

FIGURE 4. SOILS



N

## **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 Inter	est	4	42.4	100.0%

# 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.

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

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)

distance and area. A projection that preserves area, such as the Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts 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.

Not rated or not available

Hydric (66 to 99%) Hydric (33 to 65%)

Hydric (100%)

器 

Soil Rating Points

Hydric (1 to 32%)

Not Hydric (0%)

Hydric (33 to 65%) Hydric (66 to 99%)

Hydric (100%)

Hydric (1 to 32%)

Not Hydric (0%)

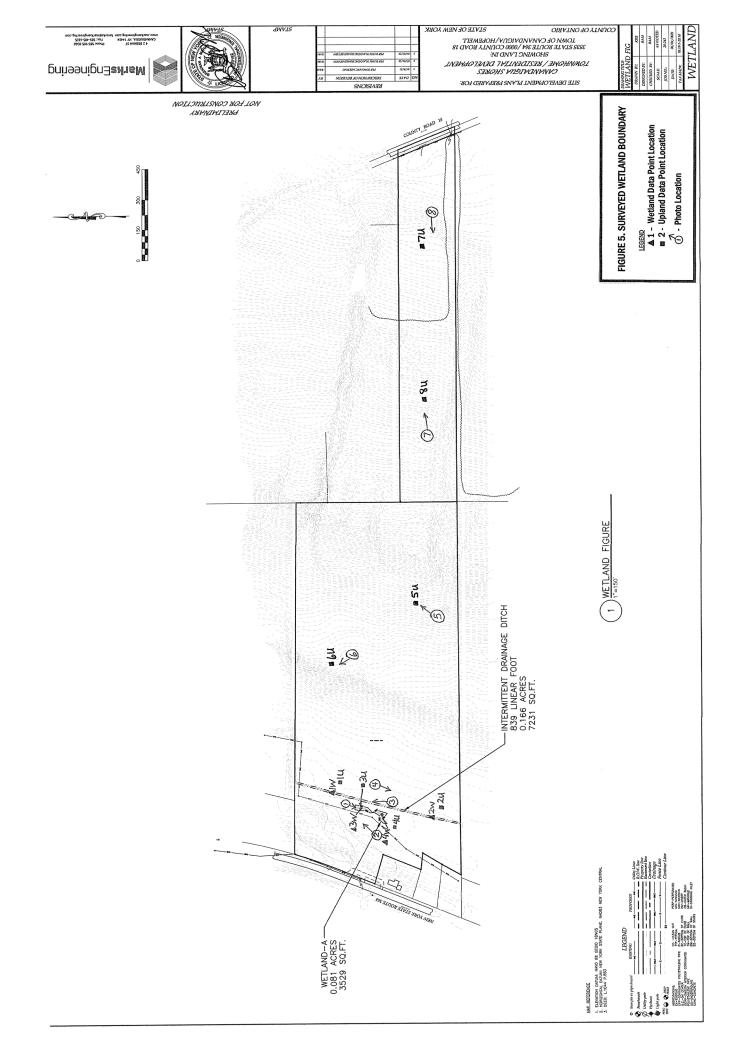
Soil Survey Area: Ontario County, New York Version 19, Sep 1, 2021 Survey Area Data: Soil map units are labeled (as space allows) for map scales 1:50,000 or larger. Date(s) aerial images were photographed: Jun 4, 2020-Jun 17,

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.

Not rated or not available

Streams and Canals

Water Features



## APPENDIX B

**Data Sheets** 

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canadasya Shares city/c	ounty: ONTARTO Sampling Date: 8/1/0/21
Applicant/Owner:	State: NY Sampling Point: ( 4
Investigator(s): G Pellett -d J. Hauber Section	on Township Rapper CANANDAFGUA
Landform (hillslope, terrace, etc.):	
Slope (%): Lat: 42 5/23() Long:	
Soil Man Unit Name: Key do Co	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly distur	,
Are Vegetation, Soil, or Hydrology naturally problems SUMMARY OF FINDINGS - Attach site map showing sam	•
	Is the Sampled Area
Hydrophytic Vegetation Present? Yes No Yes No	within a Wetland? Yes NoNo
Welland Hydrology Present? Yes No	If yes, optional Welland Site ID: B-8
Remarks: (Explain alternative procedures here or in a separate report.)	ii yeej optional irotaala otto ibi.
DEATHER & will	
23-31 3001-5	
	A WATTO
SOUT BED NO	
-	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one Is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leave	
High Water Table (A2) Aquatic Fauna (B13)	
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	or (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospher	es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduced	d Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	on in Tilled Sails (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (	C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer	marks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	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, pre	evious inspections), if available:
Remarks:	
*.	

\$	0	ı	L
. 7			

Sampling Poi	nt:	1	4	J

Profile Des	cription: (Describe	to the dept	h needed to docum	ent the i	ndicator	or confirm	the absence of inc	Sampling Point:
Depth	Matrix		Redox	Features	3			·
(inches)	Color (moist)		Color (moist)	<u>%</u>	Type'	Loc²		Remarks
0-10	104R3/1	<u>60</u> .	10483/3	40		_ M_	<u> </u>	
1048	1088411	50	10484/11	50		m	_ <u> </u>	
			· · · · · · · · · · · · · · · · · · ·					
		-						, , , , , , , , , , , , , , , , , , ,
<sup>1</sup> Type: C=C Hydric Soll	oncentration, D=Depl	etion, RM=	Reduced Matrix, CS=	-Covered	or Coate	d Sand Gra		PL=Pore Lining, M=Matrix.
Hisloso			Polyvalue Below	Surfage :	(e0) /1 DE			oblematic Hydric Solls <sup>3</sup> : A10) (LRR K, L, MLRA 149B)
	pipedon (A2)	-	MLRA 149B)	Junace	(30) (LKn	C IC		Redox (A16) (LRR K, L, R)
	istic (A3)	_	Thin Dark Surfac				5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)	-	Loamy Mucky Mi Loamy Gleyed M			, L)		(S7) (LRR K, L)
	d Below Dark Surface		Depleted Matrix (		1			low Surface (S8) (LRR K, L) Irface (S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Surf.	асв (F6)			Iron-Mangan	ese Masses (F12) (LRR K, L, R)
	Mucky Mineral (S1)	-	Depleted Dark St		7)			odplain Soils (F19) (MLRA 149B)
	Gleyed Matrix (S4) Redox (S5)	-	Redox Depression	ons (F8)				c (TA6) (MLRA 144A, 145, 149B) Materiat (TF2)
	d Matrix (S6)							Dark Surface (TF12)
Dark Su	ırface (S7) (LRR R, M	ILRA 149B	)				Other (Explai	in in Remarks)
Indicators o	f hydrophylic vegetali	ion and wal	land hydrology must	ha nraca	nt unless	disturbed	or problematic	
	Layer (if observed):	ion and not	iona nyarology masi	DC P1030	114 4111033	- Cistarboa	T prosicination	
Туре:								>1
Depth (in	ches):						Hydric Soil Prese	nt? Yes No No
Remarks:								
			140					

VEGETATION - Use scientific names of plants	3.			Sampling Point 1
Tree Stratum (Plot size: 30/ )	Absolute % Cover	Spec!es?		Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant Species Across All Strats: (8)
4	_			Percent of Cominant Species That Are OBL, FACW, or FAC:
ð				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 301) 1. CORNES AMBRILLIA 2.	90	X	FACU	FACW species       x 2 =         FAC species       x 3 =         FACU species       x 4 =
4.	**			UPL species x 5 =
5 3 7				Pravalence Index = 8/A =
Herb Stratum (Plot siza:	~/ ^	≖ Total Co		Dominance Test is >50%  Prevalence Index is \$3.0 <sup>4</sup> Morphological Adaptations <sup>1</sup> (Provide supporting
1. LIVEDIUS CINIONINA 2. AUTSMA GUBLORNATUM	<u> 50</u> <u>50</u>	<u> </u>	OBU OBU	data in Remarks or on a separate sheet)  Problematic Hydrophytic Vegetation' (Explain)
A STER SEUNDLEY  EMPORTEROS PAULDA	20	<u>X</u>	FACE	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5				Definitions of Vegetation Strata:  Tree ~ Woody plants 3 in. (7.6 cm) or more in diamete at breast height (DBH), regardless of height.
	<del>-</del>			Sapiling/shrub - Woody plants less than 3 in, DBH and greater than 3.28 ft (1 m) tail,
1				Herb - All herbaccous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft lait.  Woody vines - All woody vines greater than 3.28 ft in
2	. 130	Total Co	ver	height
·	-			
·				Hydrophytic Yegetation Present? Yes Yes Yo
Ramarka: (Includa photo numbers hara or on a saparata		* Total Co	Y9f	<u>'</u>
,	*. *.			

#### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Canandarie Shares-Pot	364 cinic	County: ONTARIO Sampling Date: 8/16/
Applicant/Owner:		
Investigatorial G Pallott . d	T Husbarea	State: NY Sampling Point: / Don, Township, Range: CANAN DATGUA
Landform (hillstope, terrace, etc.):		Local relief (concave, convex, none):
Slope (%): Lat: 42. 5/2322	Long:	77.150299 Datum:
		NWI classification:
Are climatic $\emph{I}$ hydrologic conditions on the site typical	for this time of year? Y	es No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly distur	bed? Are "Normal Circumstances" present? Yes No
Are Vegetation Soil or Hydrology	naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site	nap showing sam	apling point locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes	No	is the Sampled Area
	No	within a Wetland? Yes No
	No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in		
Success)	malshrub/	woodlot uplands
HYDROLOGY	1/1	1 1
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che	ck all that apply)	Surface Soil Cracks (B6)
	Water-Stained Leave	
	Aquatic Fauna (B13)	
	Marl Deposits (B15)	Dry-Season Water Table (C2)
	Hydrogen Sulfide Od	or (C1) Crayfish Burrows (C8)
i e		es on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
1	Presence of Reduced	
	Recent Iron Reductio	
	Thin Muck Surface (C	
Sparsely Vegetated Concave Surface (B8)	Other (Explain in Rer	
Fleid Observations:		FAC-Neutral Test (D5)
Surface Water Present? Yes No	Denth (inches):	·
	Depth (inches):	
	_ Depth (inches):	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, pre	evious inspections), if available:
Remarks:		
	* *	
		,

Sampling Point:	14

SOIL								Sampling Poin	: <u> 14</u>
Profile Desc	cription: (Describe to	the depth	needed to docur	ment the i	ndicator	or confirm	the absence of i	ndicators.)	
Depth	Matrix			x Feature:					
(inches)	Color (moist)	%	Color (moist)		Type'	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-3	10403/2	100_	~				<u></u>		
8-18	1042413	1.60	Andrews				Clau		
			·	<del></del>					
				- <u></u>					
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	-								
				-					
	-								
				•					
1									
Type: C=Co	oncentration, D=Deple	tion, RM=R	educed Matrix, CS	=Covered	or Coate	d Sand Gra		n: PL=Pore Lining, N	M=Matrix.
Histosol			Oakarakia Calar		(CB) // OD			Problematic Hydric	
	oipedon (A2)		Polyvalue Belov MLRA 149B)		(58) (LKK	i R <sub>i</sub>		(A10) (LRR K, L, MI ie Redox (A16) (LRF	
Black Hi			_ Thin Dark Surfa		RR R. ML	.RA 149B)		y Peat or Peat (\$3) (	
	n Sulfide (A4)	_	_ Loamy Mucky N					ce (S7) (LRR K, L)	
	Layers (A5)	_	_ Loamy Gleyed I	Matrix (F2)	)			Below Surface (S8) (	LRR K, L)
	Below Dark Surface	(A11) _	_ Depleted Matrix					Surface (S9) (LRR K	•
	ark Surface (A12)	<del></del>	_ Redox Dark Sur		71			inese Masses (F12)	
	fucky Mineral (S1) ileyed Matrix (S4)		_ Depleted Dark S _ Redox Depress		<i>(</i> )			floodplain Soils (F19) dic (TA6) (MLRA 144	
	ledox (S5)		_ redox Depress	10/13 (1 0)				Materiat (TF2)	M, 143, 143D)
	Matrix (S6)							w Dark Surface (TF	12)
	rface (S7) (LRR R, ML	.RA 149B)						lain in Remarks)	Í
	hydrophylic vegetalic	n and wella	nd hydrology mus	I be prese	nt, unless	disturbed o	or problematic.		
	_ayer (if observed):								_
Туре:									(V)
	:hes):						Hydric Soit Pres	sent? Yes	No V
Remarks:									

VEGETATION - Use scientific names of plants. Sampling Point Absolute Dominant Indicator Dominance Test worksheet 301 Tree Stratum (Piol size: % Cover Species? Status Number of Dominant Species 1. ACER NEGULDO FAC That Are OBL, FACW, or FAC: -RUTTING PTENNERUM GER Total Number of Dominant Species Across All Strala: Percent of Cominant Species That Are OBL, FACW, or FAC: \_ (A/B) Pravalence Index worksheet: Total % Cover of Mullich by: = Total Cover OBL spedes FACW species Sapling/Shrub Stratum (Pict size: FAC spedes FACU species UPL species Column Totals: Pravalence Index = 8/A = Hydrophytic Vegetation indicators: \_ Rapid Test for Hydrophytic Vegetation \_\_ Dominance Test is >50% 🏂 ≖ Total Cover Prevalence Index is \$3.0 Herb Stratum (Plot siza: Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet) \_\_ Problematic Hydrophytic Vegatation\* (Explain) <sup>1</sup>Indicators 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 tail. 11. Woody vines - All woody vines greater than 3.23 it in heloht SO = Total Cover Woody Vine Stratum (Plot size: Hydrophytic Yagetation Present? = Total Cover Remarks: (Include photo numbers have or on a separate sheet.)

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandargua Steps-Pet 36	4 : City/County: ONT	TAVETO Sampling Date: 8/1/0/21		
Applicant/Owner:		Older Mill of the District		
Investigator(s): G Pellett -d J. HKL	ber Section, Township, Range:	CANANI DATIGUA		
Landform (hillslope, terrace, etc.):	Local relief (cond	23Va convey nanal:		
Slope (%): Lat:42: 51189 9	Jones 77 /5047	77		
Soil Map Unit Name: Kendara	cong	NWI classification: Internitional Draining		
Are climatic / hydrologic conditions on the site typical for this tim	in africant Van / Na	INVI Classification: - or com. trent braining		
		,		
Are Vegetation, Soil, or Hydrologysigni		nal Circumstances" present? Yes No		
Are Vegetation, Soil, or Hydrology nature SUMMARY OF FINDINGS - Attach site map sho	• •	d, explain any answers in Remarks.)		
Attach site map site	Mind sampling hour local	tions, transects, important features, etc.		
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes No				
Wetland Hydrology Present? Yes No Remarks: (Explain alternative procedures here or in a separa	If yes, optional Wetla	and Site ID:		
WIETUM DOSANA 8-10' Wide 1/2' below gra	velson zan	The state of the s		
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)		
Primary indicators (minimum of one is required; check all that		Surface Soil Cracks (B6)		
	tained Leaves (B9) Fauna (B13)	✓ Drainage Pattems (B10)		
Saturation (A3) Marl De		Moss Trim Lines (B16)		
	n Sulfide Odor (C1)	Dry-Season Water Table (С2) Crayfish Випоws (С8)		
	Rhizospheres on Living Roots (C3			
	e of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
	ron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
	ck Surface (C7)	Shallow Aquitard (D3)		
	xplain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8) Field Observations:		FAC-Neutral Test (D5)		
Surface Water Present? Yes No Depth	inches):			
Water Table Present? Yes No Depth				
Saturation Present? Yes No Depth		d Hydrology Present? Yes No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aeria				
Describe Necorded Data (Stream gauge, monitoring Well, Benz	ii photos, previous inspections), ir a	avallable:		
Remarks:				
		· · · · · · · · · · · · · · · · · · ·		
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	7,	· ·		

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Sampling Point: Zw

(inches)	Matrix		Redox Fe	atures			
ii (Cries)	Color (moist)	<u>%</u>	Color (moist)	% Type	Loc <sup>2</sup>	Texture	Remarks
0-12	104123/1	60	104/23/4	40 C	Μ .	silo	
2-18	11451401	60	104R414	40 C	M	sult	
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	***************************************				-		
	***************************************						
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	-						
				<del></del>	-		
	***************************************						
					-		
ype: C=Co	oncentration, D=Depte Indicators:	etion, RM=F	Reduced Matrix, CS=Co	overed or Coat	ed Sand Gi		PL=Pore Lining, M=Malrix.  Oblematic Hydric Soits <sup>3</sup> :
_ Hislosol			Polyvalue Below Su	ırface (S8) (LR	R R.		10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)	_	MLRA 1498)			Coast Prairie	Redox (A16) (LRR K, L, R)
Black His		_	Thin Dark Surface (				eat or Peat (S3) (LRR K, L, R
	en Sulfide (A4) d Layers (A5)		Loamy Mucky Miner Loamy Gleyed Matri		(, L)		(S7) (LRR K, L) ow Surface (S8) (LRR K, L)
	d Below Dark Surface		Depleted Matrix (F3				face (S9) (LRR K, L)
Thick Da	ark Surface (A12)		Redox Dark Surface	• •		Iron-Mangane	se Masses (F12) (LRR K, L, I
			Depleted Dark Surfa	ace (F7)		Piedmont Floo	odplain Soils (F19) (MLRA 14
	flucky Mineral (S1)	_				Maria Cardia	TEACH ISSUED A A A A A A A A A A A A A A A A A A A
_ Sandy G	ileyed Matrix (S4)	-	Redox Depressions				
Sandy G Sandy R Stripped	Bleyed Matrix (S4) Redox (S5) Matrix (S6)	-	Redox Depressions			Red Parent M	
Sandy G Sandy R Stripped	Bleyed Matrix (S4) Redox (S5)	- - LRA 149B)	Redox Depressions			Red Parent M	Dark Surface (TF12)
Sandy G Sandy R Stripped Dark Sur	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI		Redox Depressions	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain	ateriat (TF2) Dark Surface (TF12)
Sandy G Sandy R Stripped Dark Sur	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI		Redox Depressions	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain	ateriat (TF2) Dark Surface (TF12)
Sandy G Sandy R Stripped Dark Sur	Sleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophytic vegetatic	on and wetl	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of estrictive L Type:	dieyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur  dicators of estrictive L Type:	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of estrictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)
Sandy G Sandy R Stripped Dark Sur dicators of strictive L Type: Depth (inc	Gleyed Matrix (S4) Redox (S5) Matrix (S6) rface (S7) (LRR R, MI f hydrophylic vegetatic Layer (If observed):	on and we(l	Redox Depressions and hydrology must be	(F8)	s disturbed	Red Parent M Very Shallow Other (Explain or problematic.	ateriat (TF2) Dark Surface (TF12) n in Remarks)

VEGETATION - Use scientific names of plants.				Sampling Point 2 W
Tree Stratum (Flot size: 30/)	Absolute	Scec!es?		Dominance Test worksheet: Number of Dominant Species
1. FRANCIUS PRANSULAIDER	· <u></u>	<u></u>	FACW	That Are OBL, FACW, or FAC:(A)
2. (ON BOURS)				Total Number of Dominant Species Across All Strats:(8)
<b>4.</b>				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
8				Prevalence Index worksheet:
	70	= Total Co		
Sapling/Shrub Stratum (Plot size: 301)		70.22.00	. •	FACW species x 2 =
1. RUAM LUIT - ATTHEORYCA	50	×	FAC	FAC spedes x3 =
2. ON BANC			<del></del>	FACU species x 4 =
3				UPL species x 5 =
4.				Column Totale: (A) (B)
5.				Pravalence Index = 8/A =
đ				Hydrophytic Vegetation Indicators:
7.				Rapid Test for Hydrophytic Vegetation
~ /	50	Total Cov	rer	Dominance Test is >50%
Herb Stratum (Plot size: 5')	~	,		Pravalence Index is \$3.0°  Morphological Adaptations! (Provide supporting
1. IMPATERS PALLEDA	30	X	-ACW	data in Remarks or on a separate sheet)
2. UN BANKS	100	<u> </u>	FACW	Problemetic Hydrophytic Vegetation* (Explain)
3.			i	Indicators of hydric soil and welland hydrology must
4.			1	be present, unless disturbed or problematic.
5			j	Definitions of Vegetation Strata:
6.       7.			1	Tree ~ Woody plants 3 in. (7.8 cm) or more in diameter at breast height (DBH), regardless of height.
8.				Sapling/shrub - Woody plants less than 3 in. DBH
9			1	and greater than 3.28 ft (1 m) tall.  Herb - All herbaceous (non-woody) plants, regardless
11.				of size, and woody plants less than 3.28 ft tail.
12.				Woody vines - All woody vines greater than 3.28 it in
	130	Total Cov	97	helght
Woody Vine Stribum (Plot size: 30/)	*		ļ	
1,				
2.				
1				the described in
1				Hydrophytic Yegetation
*		<b>T</b>		Present? Yab Ho
Ramarks: (Include photo numbers here or on a separate s		Total Cov	<b>4</b>	
rich die a fil dodo preid i dinedia ma a di di a sapaiate a	1 32L)			
	*. *.			1

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

Project/Site: Canandaigun Shares Pet 364: City/Col	1115 - 011-T-4-9750 gamelia D. 4/11/-
Applicant/Owner:	Obstact May Down to Table 1
Investigator(s): G Pellett -d J. Hauber Section	State: NY Sampling Point: 2 U
Landform (hillstone terrace etc.):	to the Bretter
Slone 19/3:	Local rellef (concave, convex, none):
Slope (%): Lat: 42.5[1884 Long: Soil Map Unit Name: Ken data	77.13043Z Datum:
	INVVI 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 disturbe	d? Are "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologynaturally problematic	? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing samp	ling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes V No I	s the Sampled Area
Hydric Soil Present? Yes No V	vithin a Wetland? Yes No X
Wetland Hydrology Present? Yes No X	yes, optional Welland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
. Successimul scrub-shrub	/wood lot
	ep lads
-	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one Is required; check all that apply)	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
Surface Water (A1) Water-Stained Leaves (	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Mart Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	
Sediment Deposits (B2) Oxidized Rhizospheres	on Living Roots (C3) Saturation Visible on Aenal Imagery (C9)
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4) Recent Iron Reduction i	
Iron Deposits (B5) Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
Sparsely Vegetated Concave Surface (B8) Field Observations:	FAC-Neutral Test (D5)
Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
Saturation Present? Yes No Depth (inches):	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	ous inspections), if available:
Remarks:	
	*
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Sampling Point:	24
ors.)	

Profile Descriptio	•	to the depth				or confirm	the absence of ir	dicators.)
Depth (inches) C	Matrix olor (moist)	%	Redo Color (moist)	x Features	Type'_	Loc²	Texture	Remarks
	1R3/2	100	20,0, 1110317				1 1	, NOTHER TO
0 15/ 100	* 7	<del>'</del>					10/10	7
D-18 10	412H/S	_/00 _	Address of the second s				10/CE	3
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	····	<del></del>						
					<del></del> -			
				· ———				
Tunai Caccasa	ration DeDret	otion Dide-	Paduand Matain CF			d Cond C		u. Di mDara i inina 35-15-15-
<sup>1</sup> Type: C=Concent Hydric Soll Indica		enon, KM=h	reduced Matrix, CS	covered	or Coated	sano Gra		: PL=Pore Lining, M=Matrix. Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)			_ Polyvalue Belov	v Surface /	'S8\ /LRR	R.		(A10) (LRR K, L, MLRA 149B)
Histic Epipedo	n (A2)	_	MLRA 149B)		(	,		e Redox (A16) (LRR K, L, R)
Black Histic (A		_	_ Thin Dark Surfa					Peat or Peat (S3) (LRR K, L, R)
Hydrogen Sulfi			_ Loamy Mucky N			L)		e (S7) (LRR K, L)
Stratified Layer Depleted Belov			Loamy Gleyed I Depleted Matrix					lelow Surface (S8) (LRR K, L) Surface (S9) (LRR K, L)
Depleted Below		(A11) _	Redox Dark Sui					nese Masses (F12) (LRR K, L, R)
Sandy Mucky I		_	Depleted Dark S		7)			loodplain Soils (F19) (MLRA 149B)
Sandy Gleyed	• •	-	Redox Depress		•			lic (TA6) (MLRA 144A, 145, 149B)
Sandy Redox (	•							Material (TF2)
Stripped Matrix								w Dark Surface (TF12)
Dark Surface (	S7) (LRR R, M	ILRA 149B)					Other (Expl	ain in Remarks)
<sup>3</sup> Indicators of hydro	ohvlic vegetati	ion and well	and hydrology mus	l be prese	nt. unless	disturbed	or problematic.	
Restrictive Layer			,				T	\ \
Туре:								$\mathcal{M}$
Depth (inches):							Hydric Soil Pres	ent? Yes No
Remarks:								
			'e',					

VEGETATION - Use scientific names of plants. Sampling Point Absolute Dominant Indicator Tree Stratum (Phol size: 30 / Dominance Test worksheet % Cover Species? Slatus Number of Dominant Species FRAYENIC PENNSKLANGER That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Pravalence Index worksheet: Total % Cover of: Multich by: = Total Cover OBL species FACW species Sapline/Shrub Stratum (Plot size: FAC spedes FACU species UPL species 054 WW 92F Column Totals: 4. LANGER CHERRY TAYBREEA Pravalence Index = 8/A = Hydrophytic Vegetation Indicators: \_ Rapid Test for Hydrophytic Vegetation 7. Dominance Test is >50% \_\_ Prevalence Index is <3.01 Herb Stratum (Plot siza: Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) \_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: 8. 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) tail. Herb - All herbaccous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft lait. Woody vines - All woody vines greater than 3.23 ft in height 5 \* Total Cover Woody Vine Simium (Plot size: 1. TOUZCA DELIGERU R Hydrophytic Yagatation: Present? 10 = Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Applicant/Owner: Sampling Point: J. Hauber Section, Township, Range: Investigator(s):\_ Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Lat: Soil Map Unit Name: NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes 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? Is the Sampled Area No within a Wetland? Hydric Soil Present? Yes No Wetland Hydrology Present? Yes\_ If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two regulred) Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) ∠ Water-Stained Leaves (B9) \_\_\_ Drainage Patterns (B10) High Water Table (A2) Aquatic Fauna (B13) \_ Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) \_\_\_ Dry-Season Water Table (C2) Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8) \_\_\_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) \_\_ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_ Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aeriat Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) X Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Field Observations: Surface Water Present? \_\_ No \_\_\_(\_ Depth (inches): Water Table Present? Yes \_\_\_\_ No Depth (inches): Saturation Present? Wetland Hydrology Present? Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Sampling Point: 34)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth Matrix Redox Features (inches) Color (moist) % Color (moist) % Type Loc Texture Remarks							Book with		
(inches)	0. 0. /	1		<u>%</u>			<u>Texture</u>	Remarks	
19-10	10/163/1	60	18483/4	40		<u>M</u>	<del>-4</del>		
10010	10484/1	70	10464/4	<u> 30</u>	C_	M	Clay.		
							J		
				***************************************					
						<del></del>			
	-								
	-								
'Type: C=C Hydric Soil		elion, RM=	Reduced Matrix, CS	Covered	or Coate	d Sand Gra		PL=Pore Lining, M=Matrix.	
-			Ostrombos Ostro	0	(CD) // DD			blematic Hydric Soils <sup>3</sup> :	
Histosol	(AT) pipedon (A2)		Polyvalue Below MLRA 149B)	Sunace	(58) (LRR	: к,		10) (LRR K, L, MLRA 1498) Redox (A16) (LRR K, L, R)	
Black Hi			Thin Dark Surfac	æ (S9) (L	RR R, ML	.RA 149B)	5 cm Mucky P	eat or Peat (S3) (LRR K, L, R)	
	en Sulfide (A4)		Loamy Mucky Mi					(S7) (LRR K, L)	
	Layers (A5)		Loamy Gleyed M		)			ow Surface (S8) (LRR K, L)	
	d Below Dark Surface ark Surface (A12)	(A11)	Depleted Matrix ( Redox Dark Surf					face (S9) (LRR K, L)	
	ducky Mineral (S1)		Depleted Dark Sun		71			se Masses (F12) (LRR K, L, R) adplain Soils (F19) (MLRA 1498)	
	Bleyed Matrix (S4)		Redox Depression		• ,			(TA6) (MLRA 144A, 145, 149B)	
	Redox (S5)						Red Parent Ma	aterial (TF2)	
	Matrix (S6)						Very Shallow Dark Surface (TF12)		
Dark Su	rface (S7) (LRR R, M	LRA 1498	3)				Other (Explain	in Remarks)	
<sup>3</sup> Indicators o	f hydrophylic vegetali	on and we	tland hydrology musi	he orese	nt unless	disturbed	or problematic		
	Layer (if observed):		auto tryo.o.ogy masi	50 p.coc		0.0.0.00	Problemans.		
Type:								4/	
Death (in	ches):						Hydric Soil Presen	t? Yes X No	
Remarks:									
			'P' <sub>6</sub>						

#### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Applicant/Owner: J. Hauber Section, Township, Range: <u>CANAN</u> Investigator(s): Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Slope (%): Lat: 42,5/2/20 Soil Map Unit Name: \_\_\_ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes\_\_\_ 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? is the Sampled Area within a Wetland? Hydric Soil Present? Wetland Hydrology Present? If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Successional Shoub Woodlot **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one Is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) Water-Stained Leaves (B9) \_\_\_ Drainage Patterns (B10) \_ High Water Table (A2) \_\_\_ Aquatic Fauna (B13) Moss Trim Lines (B16) Saturation (A3) Marl Deposits (B15) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Water Marks (B1) \_\_ Hydrogen Sulfide Odor (C1) \_ Crayfish Burrows (C8) \_\_\_ SedIment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_\_ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) \_\_ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_ Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (88) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_ Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_ Saturation Present? Wetland Hydrology Present? Yes \_\_\_\_ No \_\_\_ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

 	2	-

Sampling Point: 34

<u>į</u>	cription: (Describe	to the depth				or confirm	the absence of inc	licators.)
Depih (inches)	Matrix Color (moist)	<del></del> _	Redo Color (moist)	ox Fealure: %	Tyoe <sup>1</sup>	Loc	Texture	Remarks
10 -/ A	LOVRY/Z						7	Kemarz
0 10	COYCALL	100					<u> </u>	
10-18	1000012	_100_					<u> </u>	
	**********							
	*******							
				<del></del>				_
17					1	1010	2 2	Discount false 14 44 44
Type: C=C Hydric Soll	oncentration, D=Dept	etion, RM=R	educed Matrix, C	5=Covered	or Coate	o Sand Gra		PL=Pore Lining, M=Matrix. oblematic Hydric Soils <sup>1</sup> :
Histosol			_ Polyvalue Belo	w Surface	(S8) /I RR	P.		A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		(00) (214)	. 14		Redox (A16) (LRR K, L, R)
	istic (A3)		_ Thin Dark Surfa	ace (S9) (L	.RR R, ML	.RA 149B)	5 cm Mucky	Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4)	_	_ Loamy Mucky I			L)		(S7) (LRR K, L)
	d Layers (A5) d Below Dark Surface		_ Loamy Gleyed _ Depleted Matri:		)			elow Surface (S8) (LRR K, L) urface (S9) (LRR K, L)
	ark Surface (A12)	(MII) _	Redox Dark St					ese Masses (F12) (LRR K, L, R)
_	Jucky Mineral (S1)		Depleted Dark		7)			podplain Soils (F19) (MLRA 149B)
	Bleyed Matrix (S4)		_ Redox Depress	sions (F8)				(TA6) (MLRA 144A, 145, 149B)
-	Redox (S5)							Material (TF2)
	Matrix (S6)	U.D.A. 4 (0.17)						Dark Surface (TF12)
Dark Su	rface (S7) (LRR R, M	LKA (49D)					Other (Expla	in in Remarks)
<sup>3</sup> Indicators o	f hydrophylic vegetati	on and wella	and hydrology mu	si be prese	nt, unless	disturbed	or problematic.	
Restrictive	Layer (if observed):							The second secon
Type:								
Depth (in	ches):						Hydric Soil Prese	ent? Yes No
Remarks:							<u> </u>	
			74%					
d control								

VEGETATION - Use scientific names of plants. Sampling Point Absolute Dominant Indicator Dominance Test worksheet Tree Stratum (Plot size: \_ % Cover Species? Status 1. Peudus Number of Dominant Species FACU That Are OBL FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Commant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Mullich by: 10 = Total Cover OBL species \_\_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ Sapline/Shrub Stratum (Plet size: FAC spedes \_\_\_\_\_ x3=\_\_\_\_ FACU species \_\_\_\_\_ x 4 = UPL species \_\_\_\_\_\_ x 5 = \_\_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_ (B) Prayalence Index = 8/A = Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation \_\_ Dominance Test is >50% Prevalence Index is \$3.0<sup>t</sup> Herb Stratum (Plot siza: \_\_\_ Morphological Adaptations<sup>1</sup> (Provide supporting GHUM CLIMA data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) Indicators 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 ln. 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 laft. Woody vines - All woody vines greater than 3.28 ñ in OO = Total Cover Woody Vine Stratum (Plot size: 1. TOUX COLDEN DENDER PADER 3. Hydrophytic Yequiation: Present? = Total Cover Remarks: (Include photo numbers have or on a separate sheet.)

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region

C - 1 01	0 /	~	
Project/Site: Canandagua Ohoros	101 3 64 city/c	County: <u> </u>	4-770 Sampling Date: 8/16/2
Applicant/Owner:			States NV Complex Dates (4)
Investigator(s): G Pellett	-d J. Hauber section	on, Township, Range:	CANANIDA ERGUA
Landform (hillslope, terrace, etc.):		I and rolled (sense)	·
Slope (%): Lat: 42.5/	2089 1000	77 150479	Del convex, none).
Soil Map Unit Name: Kondaio	Long.		NWI classification: PSS/E
Associated the delta to the second se	A. C.		NWI classification:
Are climatic / hydrologic conditions on the site			
			Circumstances" present? Yes No
Are Vegetation, Soil, or Hydro	plogy naturally problems	atic? :: (If needed, e	explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attact	n site map showing sam	pling point location	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Ye	es No	Is the Sampled Area	7.7
Hydric Soil Present?	es No No	within a Wetland?	Yes No
Wetland Hydrology Present? Ye	esNo	If yes, optional Welland	0.0
Remarks: (Explain alternative procedures h	ere or in a separate report.)		
<	crub Strub wotland	1-	
	5 7 - 0		
ļ. ·	GASONAUY (	FLOODED	
-			
HYDROLOGY	•		
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	red; check all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	∠ Water-Stained Leave	s (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)	— Hydrogen Sulfide Ode	or (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizosphere		Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Algal Mat or Crust (B4)	Presence of Reduced		Stunted or Stressed Plants (D1)
Iron Deposits (B5)	Recent Iron Reductio		Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B'	Thin Muck Surface (C  7) Other (Explain in Ren		Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (		ilutha)	FAC-Neutral Test (D5)
Field Observations:			77.07.00.00.07
Surface Water Present? Yes	No Depth (inches):		·
	No Depth (inches):		
Saturation Present? Yes	No Depth (inches):		Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, mo	mitorina wall serial photos pro	views in a partiana) if ave	allahla.
Joseph House Date (Steam gauge, me	sinoring well, aerial prioros, pre	evious irispections), it ava	slidule.
			N.
Remarks:			
			•
	₹.		
			~ £

		11	1.1	
Sampling	Point:	4	W	

SOIL

Profile Desc	riotion: (Describe	to the den	th needed to docume	ent the i	ndicator	or confirm	the absence of	findicators )
Depth	Matrix			Feature:		01 00		· maroutoraty
(in ches)	Color (moist)	%	Color (moist)	%	Type'	Loc <sup>2</sup>	Texture	Remarks
19-8	104R3/2	60	1000 3/4	40		Μ	20	
1/2 15	INVOUNT	60	MIRWILL	40	-	M	111	
10-10	<u> </u>	0/1	WYCYTT.	10				
		. ——						
					٠.,٠			
	_							
				<del></del>				
		etion, RM=	Reduced Matrix, CS=	Covered	or Coate	d Sand Gra		ion: PL=Pore Lining, M=Malrix.
Hydric Soll I			Deliminate O. C.	0 4	/AA\ // **=			or Problematic Hydric Soils <sup>3</sup> :
Historia	(A1) iipedon (A2)		Polyvalue Below : MLRA 149B)	Suпасе	(S8) (LRF	cR,		ck (A10) (LRR K, L, MLRA 149B) airie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surface	e (S9) (L	.RR R, ML	RA 149B)		cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		Loamy Mucky Mir	neral (F1	) (LRR K		Dark Sur	face (S7) (LRR K, L)
	Layers (A5)		Loamy Gleyed Ma		)			e Below Surface (S8) (LRR K, L)
	l Below Dark Surface irk Surface (A12)	(A11)	Depleted Matrix (I					k Surface (S9) (LRR K, L) ganese Masses (F12) (LRR K, L, R)
	lucky Mineral (S1)		Depleted Dark Su		7)			t Floodplain Soils (F19) (MLRA 149B)
	leyed Matrix (S4)	•	Redox Depressio	ns (F8)	-		Mesic Sp	odic (TA6) (MLRA 144A, 145, 149B)
	edox (S5)							ent Materiat (TF2)
	Matrix (S6) face (S7) (LRR R, N	N DA 1/0E	11					allow Dark Surface (TF12) xplain in Remarks)
Duik Gui	iace (or) (Little it	ILIVA 1450	''				Office (E.	Apidin in Normana)
<sup>3</sup> Indicators of	hydrophylic vegetat	ion and we	tland hydrology must t	be prese	nt, unless	disturbed	or problematic.	
Restrictive L	.ayer (If observed):							
Type:								
Depth (inc	:hes):						Hydric Soil Pi	resent? Yes No
Remarks;								
			'Ψ <sub>q</sub>					
,								

VEGETATION - Use scientific names of plants.

YEGETATION - Use scientific frames of plants	•			Sampling Point
3.7	Absolute			Dominance Test worksheet
Tree Stratum (Plot size: 30/)	34 Const			Number of Dominant Scedes
1. FRANTILLS PERUSY VANER	<u>- QO</u>	<u>X</u>	FACW.	That Are OBL, FACW, or FAC:(A)
2				(* ')
				Total Number of Dominant
3.				Species Across Ali Strais: (B)
4				Percent of Cominant Species
5				That Are OBL, FACW, or FAC: (AB)
ð				Prayalence index worksheet:
7				Total % Cover of Multiply by:
	<u> </u>	= Total Co	i det	OBL species x 1 =
Sapiine/Shrub Stratum (Plot siza: 30')				FACW species x2 =
1. F. PENNSUCVANUECH	60	XF	MIN	FAC spedes x 3 =
2. RHAMMES CATHARISER		<del></del>	ZNO	FACU species x 4 =
2. 15 throwns chigh a sore				UPL species x 5 =
3,				Column Totals: (A) (B)
4				(A)
5.				Pravalence index = 8/A =
				Hydrophytic Vegetation Indicators:
6				
7				Rapid Test for Hydrophytic Vegetation
<i>/</i>	80	Total Cov	er	Dominance Test is >50%
Herb Stratum (Plot size: 5')				Pravalence Index is \$3.0
Herb Stratum (Plot size:)  1. For PERNSY CUANSELED	05	1/	A(II)	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
				•
2.				Problematic Hydrophytic Vegatation <sup>1</sup> (Explain)
3.	-			Madana of his data nell and wallend his deet and it
4.				Indicators of hydric soil and welland hydrology must be present, unless disturbed or problematic.
5				
			,	Definitions of Vegetation Strata:
6.			1	Tree ~ Woody plants 3 in. (7.8 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub – Woody plants less than 3 in. DBH
9,				and greater than 3.28 ft (1 m) tail.
10.			I	41-3- AV No. 3
			,	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11.				· '
12.				Woody vines - All woody vines greater than 3.23 ft in
	. <u> </u>	Total Cov	9f	helght
Woody Vine Stratum (Plot size: 30/)				
4				
·				
2.				
3	•			Hydrophytic
4.				Vegetation
		Talal Ca		Present? Yes Ho
Remarks: (Include photo numbers here or on a separate)		Total Cov	<b>T</b>	
Trent of the fit does begin to ance a trial and the a subdistraction	n 22()			
	·. 4.			

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Canandaijva Stores-Pet 3 6:41 Cily/Countý:	OUTAVIO Sampling Date: 8/1/a/2
Investigator(s): G Pellett -d J. Havber Section, Towns	State. NY Sampling Point: 40
Landform (hillslope, terrace, etc.): Loc	a rollef (energy) engage
Slope (%): Lat: 42.5/2097 Long: 77.	1505 29
O-11 14 11 11 11 11	
	NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology neturally problemetic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sampling p	
Hydrophytic Vegetation Present? Yes No Is the S Hydric Soil Present? Yes No Within a Wetland Hydrology Present? Yes No If yes, o	ampled Area a Wetland? Yes No ptlonal Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)  55/macual und  Upland.	Path
HYDROLOGY	-1/
Wetland Hydrology Indicators:	Consider Indiana India
Primary Indicators (minimum of one Is required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)  Aquatic Fauna (B13)	Drainage Patterns (B10) Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (CB)
Sediment Deposits (B2)  Oxidized Rhizospheres on Livi	
Drift Deposits (B3) Presence of Reduced Iron (C4	- · · · · · · · · · · · · · · · · · · ·
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	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):	Wetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous ins	pections), if available:
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Remarks:	
remarks.	

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•	£ 1	1	

Sampling Point: 4 4

Depth	ription: (Describe t Matrix	o the depth		ox Features	cator of commi	i the absence of	indicators.)	
(inches)	Color (maist)	%	Colar (moist)		ype! Loc²	Texture	Remark	s
0-18	10483/7	100	· ·			Cl. 60	) .	
							-	
	,							
					,~.,			
	,							
	t-							
	,			<del></del>				
				<del></del>				
1								
Type: C=Co	oncentration, D=Deple	etion, RM=R	educed Malrix, C	S=Covered or	Coated Sand Gr		on: PL=Pore Lining	
-			Data along Cala	0 / 0.0			Problematic Hydri	
Histosol	(A1) ipedon (A2)		Potyvalue Belo MLRA 149B		) (LRR R		k (A10) (LRR K, L,	
Black His	•		MLRA 1496 Thin Dark Surfa	•	R. MI RA 149R		irie Redox (A16) (LI ky Peat or Peat (S3	
	n Sulfide (A4)	******	_ Loamy Mucky				ice (S7) (LRR K, L)	
	Layers (A5)		_ Loamy Gleyed				Below Surface (S8)	
	Below Dark Surface		_ Depleted Matri				Surface (S9) (LRR	
	rk Surface (A12)		_ Redox Dark St				anese Masses (F12	
	ucky Mineral (S1)		_ Depleted Dark	, .			Floodplain Soils (F1	
	leyed Matrix (S4)		_ Redox Depress	sions (F8)			dic (TA6) (MLRA 1	44A, 145, 149B)
Sandy Re	edox (55) Matrix (S6)						nt Materiat (TF2) ow Dark Surface (T	E121
	face (S7) (LRR R, M	LRA 149B)					olain in Remarks)	1 (2)
	(0.7 (						on in trainering,	
<sup>a</sup> Indicators of	hydrophylic vegetation	on and wella	nd hydrology mu	st be present,	unless disturbed	or problematic.		
Restrictive L	.ayer (if observed):							
Туре:			_					M
Depth (inc	:hes):					Hydric Soil Pre	sent? Yes	No
Remarks:								
			***					

VEGETATION - Use scientific names of plants. Sampling Point Absolute Dominant Indicator Dominance Test worksheet 301 Tree Stratum (Plot size: \_\_\_ % Cover Species? Status Number of Dominant Scedes That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: \_ (A/B) Prayalanca Index worksheet Total % Cover of Mullich by: = Total Cover OBL species \_\_\_\_\_ x1=\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ Sapiing/Shrub Stratum (Plot size: FAC spedes \_\_\_\_\_ x3 = \_\_\_\_ RHAMMS CHATHARTSCH FACU species \_\_\_\_\_ x4 = \_\_\_\_ 2. ROSA MULTERLORIA UPL species \_\_\_\_\_\_ x 5 = \_\_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_ (B) Pravalence Index = 8/A = Hydrophytic Vegetation Indicators: Rapid Test for Hydrophytic Vegetation \_\_ Dominance Test is >50% = Total Cover Prevalence Index is \$3.01 Herb Stratum (Plot size: Morphological Adaptations<sup>1</sup> (Provide supporting 1. PRUNEULA VUL data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation' (Explain) COENICULATUS FACU Indicators of hydric soil and welland 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 (D8H), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaccoous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft lail. Woody vines - All woody vines greater than 3.28 it in 30/ Woody Vine Stratum (Plot size: Hydrophytic Yagelation Present? = Total Cover Remarks: (Include photo numbers have or on a separate sheet.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region ercs-RT364: City/County: ONTARIO Applicant/Owner: -d J. Hauber Section, Township, Range: CANAN Investigator(s): \_\_\_\_ Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): \_\_\_\_ \_\_\_\_ Lat: 42.512159 Soil Map Unit Name: 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 Vo 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? is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? No If yes, optional Wetland Site ID: Remarks: (Explain afternative procedures here or in a separate report.) Successional Shrub/woodlot HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one Is required; check all that apply) Surface Soil Cracks (B6) Surface Water (A1) \_\_\_ Water-Stained Leaves (B9) \_\_\_ Drainage Patterns (B10) \_ High Water Table (A2) \_\_\_ Aquatic Fauna (B13) \_\_\_ Moss Trim Lines (B16) \_ Saturation (A3) \_\_\_ Marl Deposits (B15) \_\_\_ Dry-Season Water Table (C2) \_ Water Marks (B1) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_\_ Crayfish Burrows (C8) Sediment Deposits (B2) \_\_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_\_\_ Drift Deposits (B3) \_\_\_ Presence of Reduced Iron (C4) \_\_ Stunted or Stressed Plants (D1) \_\_ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_\_\_ fron Deposits (B5) \_\_ Thin Muck Surface (C7) Shallow Aquitard (D3) \_\_\_ Inundation Visible on Aerial Imagery (B7) \_\_\_ Other (Explain in Remarks) \_\_\_ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (88) FAC-Neutral Test (D5) Field Observations: Surface Water Present? Yes \_\_\_\_\_ No \_\_\_ Depth (inches): Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_\_\_\_ Saturation Present? \_\_\_\_ Wetland Hydrology Present? Yes Yes \_\_\_\_ No \_\_\_ Depth (inches): \_\_\_ (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

US Army Corps of Engineers

Northcentral and Northeast Region - Interim Version

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SOIL								Sampling Point:	
Profile Desc	ription: (Describe t	to the dep	th needed to docume	ent the ir	ndicator	or confirm	the absence of i	ndicators.)	
Depth	Matrix			Features					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-180	1046043	10	10 VR 416	30		M	10		
111-18	1/3401/3	70	INMOULL	30	C	M	C.P		1
1-0-1-		1 600	<u> </u>						
				· · · · · · ·					
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		-							
	•								
			-						·····
¹Type: C=Cc	oncentration D=Denia	etion RM=	Reduced Matrix, CS=	Covered	or Coate	d Sand Gra	uins <sup>2</sup> l ocatio	n: PL=Pore Lining, M	=Mairiy
Hydric Soll 1				0070.00	0, 000,0			Problematic Hydric 5	
Hislosol			Polyvalue Below	Surface (	'S8) (LRF	R.		(A10) (LRR K, L, ML	
	pipedon (A2)		MLRA 149B)	,	, - , ,			rie Redox (A16) (LRR	
Black Hi	stic (A3)		Thin Dark Surface	e (S9) (L	RR R, ML	RA 149B)		y Peat or Peat (S3) (L	
	n Sulfide (A4)		Loamy Mucky Mir			, L)		ice (S7) (LRR K, L)	
	Layers (A5)		Loamy Gleyed M					Below Surface (S8) (L	
	Below Dark Surface	(A11)	Depleted Matrix (					Surface (S9) (LRR K,	
	ark Surface (A12)		Redox Dark Surfa		71			anese Masses (F12) (	
	lucky Mineral (S1) ileyed Matrix (S4)		Depleted Dark Su Redox Depressio		( )			Floodplain Soils (F19) dic (TA6) (MLRA 144,	
	ledox (S5)		recover properties	(. 0)				t Material (TF2)	1, 140, 1402)
	Matrix (S6)							ow Dark Surface (TF1	2)
Dark Su	rface (S7) (LRR R, M	LRA 149E	3)					lain in Remarks)	
		on and we	tland hydrology musi	be prese	nt, unless	disturbed of	or problematic.		,
Restrictive l	.ayer (if observed):								
Туре:									
Depth (inc	ches):						Hydric Soil Pre	sent? Yes	No 🖊
Remarks:									
			ж,						

Iree Stratum (Flot size: 30 / )	Absolute		ent Indicator	Dominance Test worksheet
1. TEAUS PEANSWIADED			57 <u>Status</u> FACW	Number of Dominant Species
		•		That Are OBL, FACW, or FAC: (A)
2.				Total Number of Dominant
3.	***************************************	<del></del>		Species Across All Strain: (B)
4				Percent of Cominant Species
5				That Are OBL, FACW, or FAC: (A/B
ð				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	70	= Total (	Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 30')			4010	FACW species 70 x2= 140
1. PHAMING CATHARITER	48	. <u> </u>	PAC	FAC spedes <u>SO</u> x3 = <u>740</u>
2. CATALPA BIGNON IOIDES	<u> 590</u>	<i>!</i>	<u>upc</u>	FACU species
3. DOSA MULTE FLARA	30	<u> </u>	FACU	UPL species <u>70</u> x 5 = <u>160</u> Column Totals: <u>290</u> (A) <u>960</u> (B)
4. RUBUS OCCIOFATRUES	40		FACU	(-/
5.				Pravalence Index = 8/A =
රි			-	Hydrophytic Vegetation Indicators:
7				Rapid Test for Hydrophytic Vegetation
	110	≖ Total C	'over	Dominance Test is >50%
Herb Stratum (Plot size: 5 /				Prevalence Index is \$3.0°
1. PRACHUTA VIRGENIANA	30	V	FACIL	Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
2. OXALIS-EWROPAEA	10		7700	Problematic Hydrophytic Vegetation¹ (Explain)
3. 45TER VENDENERS	40	X	FAC	
4. A GTETWANTA GRY POSEPALA		f	FALL	Indicators of hydric soil and welland hydrology must
E	E o Manager		_ / 100	be present, unless disturbed or problematic.
6				Definitions of Vegetation Strata:
7				Tree ~ Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8 9				Sapiling/shrub – Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tail.
10				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
12				Woody vines - All woody vines greater than 3.28 it in
	100	■ Total C	over	height
Woody Vine Stratum (Plot size: 30/)				
1.				
2.	<del> </del>			
3.			-	
			-	Hydrophytic Yegelation
2				Present? Yes Ho
Remarks: (Include photo numbers have or on a separate th		≖ Total C	CVSF	
rom and the good begins a control a text a cot cot a poblicity it.	22C)			
	. 4.			

## WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Applicant/Owner: J. Hauber Section, Township, Range: CANAN Investigator(s): \_ Landform (hillslope, terrace, etc.): \_ Local rellef (concave, convex, none): Slope (%): 10 W Lat: 42,5/2385 Soil Map Unit Name: \_\_ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes\_ (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? Is the Sampled Area Yes\_\_\_\_\_ No\_\_\_ within a Wetland? Hydric Soil Present? Yes \_\_\_\_ No\_\_ Welland Hydrology Present? Yes\_\_\_\_ No \_\_ If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) Successional Shrub uplands. HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one Is required; check all that apply) \_\_\_ Surface Soil Cracks (B6) \_\_ Surface Water (A1) \_\_\_ Water-Stained Leaves (B9) \_\_\_ Drainage Patterns (B10) \_ High Water Table (A2) \_\_\_ Aquatic Fauna (B13) \_\_ Moss Trim Lines (B16) \_\_\_ Saturation (A3) \_\_\_ Marl Deposits (B15) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Water Marks (B1) \_\_\_ Hydrogen Sulfide Odor (C1) \_\_ Crayfish Burrows (C8) Sedlment Deposits (B2) \_\_ Oxidized Rhizospheres on Living Roots (C3) \_\_\_ Saturation Visible on Aerial Imagery (C9) \_\_\_ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) \_\_\_ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_ Iron Deposits (B5) \_\_\_ Shallow Aquitard (D3) \_\_\_ Thin Muck Surface (C7) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) \_\_\_ Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (88) FAC-Neutral Test (D5) Fleid Observations: Surface Water Present? Yes \_\_\_\_ No \_\_\_ Depth (inches): \_ Water Table Present? Yes \_\_\_\_\_ No \_\_\_\_ Depth (inches): \_ Saturation Present? Wetland Hydrology Present? Yes Yes \_\_\_\_ No \_\_\_ Depth (inches): (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Sampling Point: 64

Profile Des	cription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	the absence of	findicators.)		
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Features	Type'	Loc²	Texture	Remarks		
<u>(1-7</u>	104R4/3	100	Color (moist)		1706		/ A	Kemarks		
2 /	070913	700	6 180 mm 200 M				<u> </u>			
7-22	( <u>) 480 47 3</u>	100	10405/6	40		<u> </u>				
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				•						
	<del></del>	-								
¹Type: C=C	oncentration, D=Dep	letion, RM:	=Reduced Matrix. CS	S=Coverer	or Coale	d Sand Gra	nins. <sup>2</sup> Locati	ion: PL=Pore Lining, M=Matrix.		
Hydric Solt		.=					Indicators fo	r Problematic Hydric Soils³:		
Histosol	(A1)		Polyvalue Belov		(S8) (LRF	₹ ₽,		ck (A10) (LRR K, L, MLRA 149B)		
	pipedon (A2)		MLRA 149B)	•	m			airie Redox (A16) (LRR K, L, R)		
	istic (A3) en Sulfide (A4)		Thin Dark Surfa Loamy Mucky N					cky Peat or Peat (S3) (LRR K, L, R) face (S7) (LRR K, L)		
	d Layers (A5)		Loamy Gleyed			)		e Below Surface (S8) (LRR K, L)		
	d Below Dark Surfac	e (A11)	Depleted Matrix		•			k Surface (S9) (LRR K, L)		
	ark Surface (A12)		Redox Dark Su					ganese Masses (F12) (LRR K, L, R)		
	Mucky Mineral (S1)		Depleted Dark : Redox Depress	•	7)			t Floodplain Soils (F19) (MLRA 149B) odic (TA6) (MLRA 144A, 145, 149B)		
	Sandy Gleyed Matrix (S4) F Sandy Redox (S5)			iidiis (FO)				ent Materiat (TF2)		
	Stripped Matrix (S6)						Very Shallow Dark Surface (TF12)			
Dark Su	rface (S7) (LRR R, N	/LRA 149E	3)			e <sup>30</sup>	Other (Ex	xplain in Remarks)		
·311415	* t t t				-1=1	⊚ امماسطی مط	o o o o o o o o o o o o o o o o o o o			
	f hydrophytic vegetal Layer (if observed):		etiano nyorology mus	st be prese	ent, uniess	disturbed	or problematic.	<i>b</i>		
Type:	Layer (ii observes).							\A		
	choc).						Hydric Soit Pr	resent? Yes No		
Depth (in Remarks;	cries).						1 .,,,-			
leU	5 10%.									
	- 10%	SGN	$\omega$ .							
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	wind v	507 C	MI (PM)							
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VEGETATION - Use scientific names of plants. Sampling Point Absolute Dominant Indicator Dominance Test worksheet 301 Tree Stratum (Piol size: % Cover Species? Status Number of Dominant Species 1. TRANSMERANSMURROCA That Are OBL, FACW, or FAC: Total Number of Dominant Scedes Across All Strate: Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Mullich by: OBL species FACW species Sapling/Shrub Stratum (Plot size: FAC spedes 1. RHAMMERS CATHARITECH FACU species UPL species Column Totals: Pravalence Index = 8/A = Hydrophytic Vegetation indicators: Rapid Test for Hydrophytic Vegetation Dominance Test is >50% \* Total Cover Pravalence Index is \$3.0° Herb Stratum (Plot size: \_ Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problemetic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators 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 laft. Woody vines - All woody vines greater than 3.23 it in (0() = Total Cover 30/ Woody Vine Stratum (Plot size: Hydrophytic Yagelation. Present? # Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region Ores-RT-364 City/County: OUTARIO Applicant/Owner: G Pellett -d J. Hauber Section, Township, Range: CANAN' DATIGUA Investigator(s): \_\_\_\_ Landform (hillslope, terrace, etc.): \_ Local relief (concave, convex, none): Slope (%): \_\_\_\_\_ Lat: 42.511944 \_\_\_\_\_Long: 77./4258/\_\_\_\_\_\_Datum; Soil Map Unit Name: 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? Is the Sampled Area within a Wetland? Hydric Soil Present? Welland Hydrology Present? No\_ If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) OCD HAN FIELD HYDROLOGY Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one is required; check all that apply) \_ Surface Soil Cracks (B6) Surface Water (A1) \_\_\_ Water-Stained Leaves (B9) \_\_\_ Drainage Pattems (B10) \_\_ High Water Table (A2) \_\_\_ Aquatic Fauna (B13) \_ Moss Trim Lines (B16) \_\_\_ Dry-Season Water Table (C2) \_ Saturation (A3) \_\_\_ Marl Deposits (B15) \_\_\_ Water Marks (B1) \_\_\_ Hydrogen Sulfide Odor (C1) \_ Crayfish Burrows (C8) \_\_\_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9) \_\_\_ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) \_\_\_ Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_\_\_ Iron Deposits (B5) \_\_ Thin Muck Surface (C7) \_ Shallow Aquitard (D3) \_\_\_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) 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): \_\_\_\_ Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

Profile Desc	ription: (Describe t	to the dans	h needed to docum	nant tha in	dicator	or confirm	the absence of it	Sampling Poi	
		to the dept			dicator	or connium	the absence of it	noicators.)	
Depth (inches)	Matrix Color (moist)	%	Redox Color (moist)	x Features %	Type¹	Loc²	Texture	Remarks	=
C0 / C)	10424/3		GOIGI (MICISI)		1400			//Ciriana	-
2-10	27.22 (1/2)	100					<u> </u>		
10-18	WYRUIS	100-	**************************************				Cl.		
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	oncentration, D=Depl	etion, RM=f	Reduced Matrix, CS	=Covered	or Coate	d Sand Gra	alns. Location	n: PL=Pore Lining.	M=Malrix.
ydric Soll 1								Problematic Hydri	
Hislosol	• •	-	Polyvalue Below		58) (LRF	R,		(A10) (LRR K, L, M	
	ipedon (A2)		MLRA 149B)		NO 15 44	D 4 440 D1	Coast Prairie Redox (A16) (LRR K, L, R)		
Black His	n Sulfide (A4)	-	Thin Dark Surfac Loamy Mucky M				5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L)		
-	Layers (A5)	-	Loamy Gleyed N		LINK	, -)	Polyvalue Below Surface (S8) (LRR K, L)		
	Below Dark Surface	(A11) -	Depleted Matrix				Thin Dark Surface (S9) (LRR K, L)		
	rk Surface (A12)		Redox Dark Sur				Iron-Manganese Masses (F12) (LRR K, L, R)		
	lucky Mineral (S1)		Depleted Dark S		)		Piedmont Floodplain Soils (F19) (MLRA 149B)		
	leyed Matrix (S4)	_	Redox Depressi		•		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy R	edox (S5)						Red Parent Material (TF2)		
Stripped	Matrix (S6)						Very Shallow Dark Surface (TF12)		
Dark Sur	face (S7) (LRR R, M	LRA 149B)					Other (Explain in Remarks)		
	hydrophylic vegetati	on and well	and hydrology musi	l be preser	it, unless	disturbed	or problematic.		
lestrictive L	ayer (if observed):								
Туре:			- September 1						\ \
Depth (inc	:hes):						Hydric Soil Pres	sent? Yes	No
emarks;							1		
			40						

VEGETATION - Use scientific names of plants. Sampling Point Absolute Dominant Indicator 301 Dominance Test worksheet: Tree Stratum (Plot size: % Cover Scecles? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (8) Percent of Dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of Multiply by: \_ = Total Cover OBL species \_\_\_\_\_ x1 = \_\_\_\_ 3*o'* FACW species \_\_ \_\_\_\_x2=\_ Sapling/Shrub Stratum (Pict size: \_ FAC species \_\_x3 = FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_ UPL species \_ \_\_ x5=\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Pravalence Index = 8/A = Hydrophytic Vegetation Indicators: \_\_\_ Rapid Test for Hydrophytic Vegetation Dominance Test is >50% = Total Cover Prevalence Index is \$3.01 Herb Stratum (Plot size: \_ Morphological Adaptations<sup>1</sup> (Provide supporting 1. TAWCUS CARAGA data in Remarks or on a separate sheet) KNTPHREATAR Problematic Hydrophytic Vegetation¹ (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. TAT FACTUM PROSTEUSE FACL Definitions of Vegetation Strata: mullupon adrew Tree ~ Woody plants 3 in. (7.8 cm) or more in diameter UPL 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. FACU Herb - All herbaccous (non-woody) plants, ragardless of size, and woody plants less than 3.28 ft laft. Noody vines - All woody vines greater than 3.28 it in height 30/ Woody Vine Stratum (Plot size: 1. \_\_\_ Hydrophytic Yagelation. Present? = Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region nors-Pit 364 City/County: 0 Applicant/Owner: J. Hauber Section, Township, Range: Investigator(s): Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): Lat: 77.143533 Long: Soil Map Unit Name: \_ 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 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? Is the Sampled Area within a Wetland? Hydric Soil Present? Welland Hydrology Present? If yes, optional Wetland Site ID: Remarks: (Explain alternative procedures here or in a separate report.) **HYDROLOGY** Wetland Hydrology Indicators: Secondary Indicators (minimum of two required) Primary Indicators (minimum of one Is required; check all that apply) Surface Soil Cracks (B6) \_ Surface Water (A1) \_\_\_ Water-Stained Leaves (B9) \_\_\_ Drainage Patterns (B10) \_ High Water Table (A2) \_\_\_ Aquatic Fauna (B13) \_\_\_ Moss Trim Lines (B16) \_\_\_ Saturation (A3) \_\_\_ Marl Deposits (B15) \_\_\_ Dry-Season Water Table (C2) \_\_\_ Water Marks (B1) \_\_\_ Hydrogen Sulfide Odor (C1) \_ Crayfish Burrows (C8) \_ Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) \_ Saturation Visible on Aerial Imagery (C9) \_ Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1) Algal Mat or Crust (B4) \_\_\_ Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2) \_ Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) \_ Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4) Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5) Fleid Observations: Surface Water Present? Yes \_\_\_\_ No \_\_\_ Depth (inches): \_ Water Table Present? Yes \_\_\_\_ No \_\_\_\_ Depth (inches): Saturation Present? Yes \_\_\_\_ No \_\_\_ Depth (inches): \_ Wetland Hydrology Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available: Remarks:

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Sampling Point: 8 U

Profile Desc	ription: (Describe t	o the depth r			or confirm	the absence of indicator	s.)
Depth	Matrix Color (moist)	%	Redox ( Color (moist)	Features  % Type <sup>t</sup>	Loc²	Texture	Damada
(inches)	13 - 30 - 17			0	LOC	rexture	Remarks
0-11	LOYRGB	100	pre				
			¥				
			-				
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1TVD8: C=C	oncentration, D=Depte	ation PM=Pe	duced Matrix CS=	Covered or Coale	d Sand Gra	ine <sup>2</sup> l acation: DI =D	ore Lining, M=Matrix.
Hydric Soll		SUOIT, INVI-INE	ddced Mainx, CS-i	Covered of Coale	u Sailu Gia	Indicators for Problem	
Histosol			Potyvalue Below S	Surface /SR\ /I RR	B	2 cm Muck (A10) (L	-
	pipedon (A2)	<del></del>	MLRA 149B)	Juliace (OD) (Elvic	. 131	Coast Prairie Redox	
Black Hi			Thin Dark Surface	(S9) (LRR R. ML	RA 149B)		Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Loamy Mucky Mir			Dark Surface (S7) (	
Stratified	Layers (A5)		Loamy Gleyed Ma		·	Polyvalue Below Su	rface (S8) (LRR K, L)
Depleted	d Below Dark Surface	(A11)	Depleted Matrix (I	F3)		Thin Dark Surface (	S9) (LRR K, L)
	ark Surface (A12)		Redox Dark Surfa				asses (F12) (LRR K, L, R)
	łucky Mineral (S1)		Depleted Dark Su				n Soils (F19) (MLRA 149B)
	ileyed Matrix (S4)		Redox Depression	ns (F8)			(MLRA 144A, 145, 149B)
	ledox (S5)					Red Parent Materia	•
	Matrix (S6)	DA 440E)				Very Shallow Dark	
Dark Su	rface (S7) (LRR R, M	LKA 1490)				Other (Explain in Re	emarks)
<sup>3</sup> Indicators o	f hydrophylic vegetali	on and wellar	id hydrology must h	ne nresent, uniess	disturbed o	or problematic	
	_ayer (if observed):		,			F	
Type:							1
			_			Hydric Soil Present?	Yes No
	ches):						
Remarks;							
			٧.				

VEGETATION - Use scientific names of plants. Sampling Point Absolute Dominant Indicator Dominance Test worksheet Tree Stratum (Plot size: 3 Cover Species? Status 1. (QUERCUS Number of Dominant Scedes That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B) Prevalence Index worksheet: Total % Cover of Mullich by: 140 = Total Cover OBL species \_\_\_\_\_ x1 = \_\_\_\_ Sapline/Shrub Stratum (Plot size: FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC spedes \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_ x4= UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_ \_\_\_\_ (A) \_\_\_\_ (B) Pravalence Index = 8/A = Hydrophytic Vegetation Indicators: \_ Rapid Test for Hydrophytic Vegetation Dominance Test is >50% = Total Cover Prevalence Index is \$3.01 Herb Stratum (Plot size: \_\_\_ Morphological Adaptations! (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation (Explain) indicators 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, 10. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft lail. Woody vines - All woody vines greater than 3.23 it in 20 = Total Cover 30/ Woody Vine Stritum (Plot size: Hydrophytic Yagalation. Present? = Total Cover 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.