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Project Code: W11I18a

June 25, 2020

Mr. Steven Metivier New York Section Chief Buffalo District U.S. Army Corps of Engineers 1776 Niagara Street Buffalo, New York 14207

RE: North America Park Town of West Seneca Erie County, New York

Dear Mr. Metivier:

On behalf of our client, Nanco Associates LLC, Earth Dimensions, Inc. (EDI) is submitting the attached wetland delineation report for the above referenced $128.41\pm$ acre project site located at the east terminus of North America Drive in the Town of West Seneca, Erie County, New York. EDI identified sixteen (16) wetlands totaling $20.81\pm$ acres. We are requesting a jurisdictional determination and wetland boundary confirmation.

Please contact our office after you review the attached to schedule a site visit in order to move forward with the jurisdictional determination and wetland boundary confirmation for this project.

If you have any questions or require further information, please contact our office at (716) 655-1717 or email <u>tsomerville@earthdimensions.com</u>

Very truly yours, Earth Dimensions, Inc.

Thon

Thomas Somerville Ecologist

encl.

cc: Rob Savarino, Nanco Associates LLC

Wetland and Waterbodies Delineation Report

for

NORTH AMERICA PARK

Town of West Seneca

Erie County, New York

for

Nanco Associates LLC



October 30, 2019 EDI Project Code: W11I18a REPORT SUMMARIZING THE RESULTS OF A WETLAND DELINEATION SURVEY OF

NORTH AMERICA PARK

Prepared for Submission to:

U.S. ARMY CORPS OF ENGINEERS 1776 NIAGARA STREET BUFFALO, NEW YORK 14207

Prepared By:

EARTH DIMENSIONS, INC. 1091 JAMISON ROAD ELMA, NEW YORK 14059

Prepared For:

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REPORT DATE: October 30, 2019

EDI PROJECT CODE: W11I18a

PROJECT INFORMATION

Project Name	North America Park
Street Address	0 North America Drive
SBL Numbers	
Town	
County	Erie
State	New York
Latitude/Longitude (NAD83)	
Investigation Area	
USGS 7.5 Minute Topographical Map	Orchard Park Quadrangle
Waterway	Buffalo Creek
Hydrologic Unit Code	
Date of Delineation	October 9 & 11, 2019
Consultant	Earth Dimensions, Inc.
	1091 Jamison Road
	Elma, New York 14095
Point of Contact	Scott Livingstone
	(716)655-1717
	slivingstone@earthdimensions.com
Engineer	N/A
Property Owner	North America Park
Authority	Section 404, Article 15
Permit/Letter Being Requested	Jurisdictional Determination

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EXECUTIVE SUMMARY

Nanco Associates LLC has proposed the development of a 128.41± acre project located at the east terminus of North America Drive in the Town of West Seneca, County of Erie, and State of New York. Nanco Associates LLC has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation report that would allow the U.S. Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to determine their jurisdictional authority over the investigation area, pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

A preliminary review of available information pertaining to vegetation, soils, and hydrology in the project area was implemented prior to conducting a field investigation at the site. Sources of information included the United States Geological Survey (USGS), Natural Resources Conservation Service (NRCS), National Wetland Inventory (NWI), and NYSDEC Freshwater Wetland maps. The USGS, NRCS and NWI maps indicate the potential for wetlands under federal jurisdiction. The NYSDEC map indicates the potential for streams under state jurisdiction.

EDI applied methodology specified by the Corps of Engineers Wetlands Delineation Manual (January 1987) and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region Version 2.0 (January 2012) to perform a delineation of Federal jurisdictional wetlands within the site. EDI identified sixteen (16) wetland areas totaling 20.81± acres within the investigation area. An unnamed tributary to Buffalo Creek flows northerly through the eastern portion of investigation area. The identification number of the wetlands, their acreage and boundary flags are as follows:

Wetland	Geographic Center		Boundary	Total	Wetland Type	Wetland Type	Jurisdictional
Identification #	(NAD83)		Flag #	Acreage	(Cowardin)	(Reschke)	Determination
	Latitude	Longitude		On-site			
Wetland 1	42.84332	78.71664	W1-1 through	0.10±	PSS1B	Scrub-shrub	Non-
			W1-6				Jurisdictional
Wetland 2	42.84371	78.71662	W2-1 through	0.14±	PSS1B	Scrub-shrub	Non-
			W2-8				Jurisdictional
Wetland 3	42.84484	78.71904	W3-1 through	2.68±	PEM1B	Emergent	Jurisdictional
			W3-50			Marsh	
Wetland 4	42.84127	78.71856	W4-1 through	0.01±	PEM1B	Emergent	Non-
			W4-4			(Invasive	Jurisdictional

TABLE 1: WETLAND SUMMARY

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						Species) Marsh	
Wetland 5	42.84127	78.71882	W5-1 through W5-6	0.05±	PEM1B	Emergent (Invasive Species) Marsh	Non- Jurisdictional
Wetland 6	42.84290	78.71917	W6-1 through W6-8	0.11±	PSS1B	Scrub-shrub	Non- Jurisdictional
Wetland 7	42.84450	78.72318	W7-1 through W7-40	2.94±	PSS1B	Scrub-shrub	Jurisdictional
Wetland 8	42.84361	78.71895	W8-1 through W8-13	0.32±	PEM1B	Emergent Marsh	Non- Jurisdictional
Wetland 9	42.84587	78.42432	W9-1 through W9-47	2.68±	PSS1B	Scrub-shrub	Jurisdictional
Wetland 10	42.84680	78.72363	W10-1 through W10-12	0.66±	PSS1B	Scrub-shrub	Jurisdictional
Wetland 11	42.84754	78.72396	W11-1 through W11-23	1.11±	PSS1B	Scrub-shrub	Jurisdictional
Wetland 12	42.84841	78.72313	W12-1 through W12-21	1.58±	PSS1B	Scrub-shrub	Jurisdictional
Wetland 13	42.84778	78.72170	W13-1 through W13-24	0.75±	PSS1B	Scrub-shrub	Jurisdictional
Wetland 14	42.84702	78.72190	W14-1 through W14-13	0.27±	PSS1B	Scrub-shrub	Non- Jurisdictional
Wetland 15	42.84771	78.72005	W15-1 through W15-29	1.40±	PSS1B	Scrub-shrub	Jurisdictional
Wetland 16	42.84605	78.72186	W16-1 through W16-58	6.01±	PSS1B	Scrub-shrub	Jurisdictional
	Total Wetla	and Acreage:		20.81±			

 TABLE 2: STREAM & DRAINAGE SUMMARY

Stream	Waterway	DEC	Linear Feet	Highwater	Flow	Substrate	Classification	Jurisdictional
Identification #		Class	On-site	Width (Ft)	Regime		(Cowardin)	Determination
Stream 1	UNT to	В	1350 feet	5 feet	Perennial	Cobble	R4SB6	Jurisdictional
	Buffalo							
	Creek							
Stream 2	UNT to	N/A	198 feet	1 foot	Ephemeral	silt,	R4SBC	Jurisdictional
	Buffalo				-	detritus		
	Creek							

SECTION I: INTRODUCTION

Nanco Associates LLC has proposed the development of a 128.41± acre project at the eastern terminus of North America Drive in the Town of West Seneca, County of Erie, and State of New York. The project has been given the name North America Park and is located on USGS 7.5 minute quadrangle map indexed as Orchard Park/2002 DeLorme (Figure 1). The field work was completed on October 9 & 11, 2019 using a Trimble Geo 7x GPS to locate wetland and drainage boundaries.

Nanco Associates LLC has retained Earth Dimensions, Inc. (EDI) to complete a wetland delineation study at this site. The investigation was designed to facilitate a determination of the extent of USACE and NYSDEC jurisdiction over the project area pursuant to Section 404 of the Clean Water Act and Articles 15 (Protection of Waters) and 24 (Freshwater Wetlands) of the New York State Environmental Conservation Law.

EDI has performed a wetland delineation study at the site under guidelines specified by the *Corps of Engineers Wetlands Delineation Manual*, dated January 1987 (referred to hereafter as the Corps Manual) and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region version 2.0* (January 2012) (referred to hereafter as the Northcentral and Northeast Regional Supplement). The purpose of this report is to present EDI's methods, results, conclusions and recommendations with respect to the North America Park project site.

SECTION II: SITE DESCRIPTION

The North America Park project area is comprised of a $128.41\pm$ acre irregular shaped investigation area at the eastern terminus of North America Drive, south of Seneca Creek Road and north of NYS Route 400, and is outlined on Figure 1 and depicted on the Wetland Delineation Map included in Appendix A (Figure 6). The project area consists of two individual parcels and a 150-foot wide transmission line corridor between the parcels. The northern parcel is $60.13\pm$ acres and the southern parcel is $61.75\pm$ acres, with the utility line corridor making up $6.53\pm$ acres of the investigation area.

The natural topography of the North America Park site is flat to gently sloping. An incised area is present in the southeast portion of the investigation area associated with the unnamed tributary to Buffalo Creek. The upland within the investigation area consisted of successional old field, successional northern hardwood, conifer plantation and brushy cleared land communities. The wetland areas were found to consist of shallow emergent marsh, scrub-shrub swamp and invasive species marsh communities. The vegetative communities of the investigation area are described according to *Ecological Communities of New York State* (Edinger et al. 2014).

SECTION III: PRELIMINARY DATA REVIEW

A. SUMMARY OF FINDINGS

Several sources of information may be reviewed to facilitate the completion of a wetland delineation study. In some cases it is even possible to make a preliminary office wetland determination based upon available vegetation, soils, and hydrologic information for a project area. EDI completed a preliminary review of several data sources at the onset of this study. The results of the review are summarized as follows:

1. USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Figure 1 depicts the North America Park project site on the Orchard Park/2002 DeLorme quadrangle map. The figure depicts the flat to gently sloping topography of the site. The steeper area surrounding the unnamed tributary to Buffalo Creek is depicted in the southeastern portion of the investigation area.

2. USFWS NATIONAL WETLANDS INVENTORY MAP

The National Wetlands Inventory (NWI) map obtained from the USFWS Wetland Mapper http://www.fws.gov/wetlands/Data/Mapper.html displays three (3) wetlands, PSS1Bd, PFO1Bd and R4SBC within the investigation area. The wetlands can be decoded as:

[P] Palustrine, [SS] Scrub-shrub, [1] Broad leaved-deciduous, [B] Saturated,

[d] Partially drained/ditched

[P] Palustrine, [FO] Forested, [1] Broad leaved-deciduous, [B] Saturated, [d] Partially drained/ditched[R] Riverine, [4] Intermittent, [SB] Streambed, [C] Seasonally Flooded

3. NATURAL RESOURCES CONSERVATION SERVICE SOILS MAP

Figure 3 presents the project area outlined on a copy of the Erie County Soil Survey map from the National Cooperative Soil Survey. As shown on that figure, the site has the following soil types:

Map Unit	Map Unit Name	Hydric Soil/Inclusions?
Symbol		
Cc	Canandaigua silt loam	Hydric Soil
CfB	Cayuga silt loam, 3 to 8% slopes	Inclusions Unlikely

Soil Conservation Service Legend

Fu	Fluvaquents & Udifluvents	Inclusions Possible
Nh	Niagara silt loam, till substratum	Inclusions Possible

<u>Canandaigua Series</u>: The Canandaigua series consists of very deep, poorly and very poorly drained soils formed in silty glacio-lacustrine sediments. These soils are on lowland lake plains and in depressional areas on glaciated uplands. Slope ranges from 0 to 3 percent. Mean annual temperature is 49°F and mean annual precipitation is 39 inches.

Cayuga Series: The Cayuga series consists of very deep, moderately well drained soils formed in clayey lacustrine deposits overlying till. These soils are on undulating to hilly till plains where a veneer of lake-laid deposits overlie the till. Slope ranges from 2 to 25 percent. The mean annual temperature is 48°F and the mean annual precipitation is 35 inches.

Fluvaquents & Udifluvents: These are nearly level to gently sloping, poorly drained to well drained soils that formed in recent stream deposits. These soils consist mainly of silty, sandy, or loamy alluvial sediments and varying amount of small stone fragments. They are subject to frequent flooding.

<u>Niagara Series</u>: The Niagara series consists of very deep, somewhat poorly drained soils formed in silty glacio-lacustrine deposits. These soils are in level to slightly concave areas on lake plains and in valleys. Slope ranges from 0 to 15 percent. The mean annual air temperature is 48°F and mean annual precipitation is 37 inches.

The U.S. Department of Agriculture's National Technical Committee for Hydric Soils Criteria has developed a list of soils that often display hydric soil characteristics. Hydric soil typically forms in places of the landscape where surface water periodically collects for some time and/or where groundwater discharges sufficient to create waterlogged or anaerobic soils. Such anaerobic soils can support the growth and survival of hydrophytic vegetation that is tolerant of such conditions. Canandaigua and fluvaquents are hydric soils and therefore may support wetland vegetation. Wetland hydrologic conditions, hydric soils, and hydrophytic vegetation are the three criteria of a wetland.

4. NYSDEC FRESHWATER WETLANDS MAP

The NYSDEC Freshwater Wetlands map obtained from the online NYSDEC Environmental Resource Mapper displays no state jurisdictional Freshwater Wetlands within or adjacent to the investigation area. NYSDEC, thus currently has no jurisdiction over any wetlands at this site. A Class B stream (Unnamed tributary to Buffalo Creek) is depicted in the eastern portion of the site.

B. RESULTS OF AGENCY INFORMATION REVIEW

The preliminary data review revealed that the Corps may have jurisdiction over wetlands at the project location. The evidence consisted of potential federally regulated wetlands on the NWI map (Figure 2) and hydric soils and soils with possible inclusions depicted within the project area as shown on the NRCS map (Figure 3). The preliminary data review indicated that NYSDEC may have jurisdiction over streams on site as depicted on the NYSDEC Resource Mapper (Figure 4). Therefore, it was considered necessary to perform a field investigation at the site in order to confirm the presence of federal and state protected wetlands. The methods specified in the Corps of Engineers Wetlands Delineation Manual (January 1987) and Northcentral and Northeast Regional Supplement Version 2.0 (January 2012) were employed during the field investigation. Procedures, results, and conclusions of the wetland delineation study are presented in the remainder of this report.

SECTION IV: FIELD INVESTIGATION PROCEDURES

WETLANDS:

Step 1

EDI applied methodology specified by the 1987 Corps of Engineers Wetlands Delineation Manual and Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region to perform a delineation of Federal jurisdictional wetlands within the site. EDI used the Level 2 Routine Determination method (on-site inspection necessary) since insufficient information was available for making a determination for the entire project area. This methodology is consistent with Part IV, Section D of the Corps Manual.

Step 2

EDI's initial evaluation of the project area revealed that no atypical situations existed. If an atypical situation had existed, EDI would have used methodology outlined in Part IV, Section F of the Corps manual and/or Section 5 of the Northcentral and Northeast Supplement.

Step 3

EDI made the determination that normal environmental conditions were present, as the area was not lacking hydrophytic vegetation or hydrologic indicators due to annual, seasonal or long-term fluctuations in precipitation, surface water, or groundwater levels. The Northcentral and Northeast Supplement defines the growing season as beginning when one of the following indicators of biological activity are evident in a given year: (1) above-ground growth and development of vascular plants and/or (2) soil temperature measured at 12" below ground surface reaches 41°F. The end of the growing season is defined as the point at which deciduous species lose their leaves or the last herbaceous plants cease flowering and their leaves become dry or brown, whichever comes latest.

Step 4

In order to accurately identify the limits of various vegetative communities and extent of wetlands on-site, a routine determination method was used. As depicted in Appendix A and included in Appendix B, thirty (30) data points were used to characterize the site.

<u>Step 5</u>

The plant community inhabiting each observation point was characterized in accordance with methods specified in the Northcentral and Northeast Regional Supplement. Dominant plant species were identified within four vegetative strata (i.e. herb, sapling/shrub, tree and liana (woody vines) at each sampling point. The Northcentral and Northeast Regional Supplement defines the vegetative strata in the following manner:

Herb – A non-woody individual of a macrophytic species. Seedlings of woody plants (including vines) that are less than 3.28 feet in height are considered to be herbs.

Sapling/Shrub – A layer of vegetation composed of woody plants < 3.0 inches in diameter at breast height but greater than 3.28 feet in height, exclusive of woody vines.

Tree – A woody plant > 3.0 inches in diameter at breast height, regardless of height (exclusive of woody vines)

Liana – A layer of vegetation in forested plant communities that consist of woody vines greater than 3.28 feet in height.

As outlined in the manual, the quadrant sizes used for the vegetative strata were (i) a 3.28-foot radius for herbs; (ii) a ten-foot radius for saplings/shrubs and woody vines; and (iii) a 30-foot radius for trees. Dominant plant species were estimated using aerial coverage methods. Dominant species are defined in the Corps Manual as the most abundant plant species that when ranked in descending order of abundance and cumulatively totaled immediately exceed 50 percent of the total dominance measure for the stratum, plus any additional species comprising 20 percent or more of the total dominance measure.

The wetland indicator status (OBL, FACW, FAC, FACU, or UPL) listed for each identified species by the U.S. Fish and Wildlife Service in the National List of Plant Species that Occur in Wetlands: Northeast (Region 1) was recorded. The U.S. Fish and Wildlife wetland indicator status listings are defined as follows:

OBL - Plants that occur almost always (estimated probability >99 percent) in wetlands under natural conditions, but which may also occur rarely (estimated probability < 1 percent) in nonwetlands.

FACW – Plants that occur usually (estimated probability >67 percent to 99 percent) in wetlands, but also occur (estimated probability 1 percent to 33 percent) in nonwetlands.

FAC – Plants with a similar likelihood (estimated probability 33 percent to 67 percent) of occurring in both wetlands and nonwetlands.

FACU – Plants that occur sometimes (estimated probability 1 percent to <33 percent) in wetlands, but occur more often (estimated probability >67 percent to 99 percent) in nonwetlands.

UPL – Plants that occur rarely (estimated probability < 1 percent) in wetlands, but occur almost always (estimated probability >99 percent) in nonwetlands under natural conditions.

The plant community data was summarized on the data forms provided in the Northcentral and Northeast Regional Supplement included in this report as Appendix B.

<u>Step 6</u>

Plant data from each observation point were tested against the hydrophytic vegetation criterion specified in the Corps Manual and Northcentral and Northeast Regional Supplement. The Northcentral and Northeast Regional Supplement identifies a four-tiered approach for making a determination of whether or not the hydrophytic vegetation criteria is met for a sample plot. Indicator 1 (Rapid Test for Hydrophytic Vegetation) was first applied to determine if all dominant species across all strata are rated OBL and/or FACW. If Indicator 1 did not meet the hydrophytic vegetation criteria, Indicator 2 was then applied (dominance test); if greater than 50% of all plant species across all strata were rated OBL, FACW, or FAC, the hydrophytic vegetation criteria was considered met. In rare cases, when Indicators 1 and 2 did not meet the hydrophytic vegetation criteria but soils and hydrology criteria were met, Indicators 3 (Prevalence Index) and 4 (Morphological Adaptations) were used to make a final determination. All observation points that met the hydrophytic vegetation criterion were considered potential wetlands. Soils were then characterized.

Step 7

The Corps Manual specifies that soils need not be characterized (and are assumed hydric soils) at sampling points meeting the hydrophytic vegetation criterion if: (i) all dominant plant species have an indicator status of OBL, or (ii) all dominant species have an indicator status of OBL and/or FACW, and the wetland boundary is abrupt (at least one dominant OBL species must be present). All observation points sampled during this field investigation were examined directly for soil and hydrologic characteristics.

Step 8

At observation points requiring a soil evaluation, soil borings were performed by an EDI Soil Scientist using methods specified in the Northcentral and Northeast Regional Supplement. Soil pits were dug using a tile spade. Testpits were generally dug to a depth of 20 inches below ground surface. Soils were examined for any of the hydric soil indicators, as outlined in the Field Indicators of Hydric Soils in the United States. A determination was made as to whether or not the hydric soil criterion was met. Soils data was recorded on the data forms included in Appendix B of this report.

Step 9

EDI's Soil Scientist examined hydrologic indicators using methods specified by the Northcentral and Northeast Regional Supplement at each observation point. The wetland hydrology criterion was met if: (i) one or more primary field indicators was materially present, (ii) available hydrologic records provided necessary evidence, or (iii) two or more secondary indicators were present. Results were recorded on data forms taken from the Corps Manual and are included in this report as Appendix B.

<u>Step 10</u>

A wetland determination was made for every observation point. If a sample plot met the hydrophytic vegetation, hydric soil, and wetland hydrology criteria, the area was considered to be wetland.

Step 11

Based on the results of the transected data, wetland boundaries were established for each identified wetland using survey ribbon labeled "wetland delineation" and numbered consecutively along each wetland boundary. As outlined in the Corps Manual, the placement of flags was based on the limits of areas where all three parameters were met. Wetland flags are identified in Table 1.

STREAMS & DRAINAGES:

The federally regulated Ordinary High Water (OHW) mark of streams within the Project area were delineated utilizing the definitional criteria as presented in Title 33, Code of Federal Regulations, Part 328, and the USACE Regulatory Guidance Letter 05-05 – Guidance on Ordinary High Water Mark Identification. Each stream is categorized in regard to its flow regime as perennial, intermittent, or ephemeral, as defined by the USACE. The Ordinary High Water (OHW) mark for each stream is surveyed using the Trimble Geo 7X GPS. Each stream is assigned a letter designation, and survey points are numbered consecutively. Substrate characteristics and water depth are noted. Streams classified as AA, A, B, C, C(t), C(ts) and D in the State of New York are regulated by NYSDEC under Article 15 Use and Protection of Waters. Streams are given classifications which designate the level of protection afforded to each waterbody. Class AA and A are assigned to sources of drinking water. Class B streams are best suited for swimming and other contact recreation, but not drinking water. Class C streams identify waters that support fishing and non-contact activities. A classification with (t) designated a stream with the potential to support trout populations. A classification, and are often highly imperiled.

SECTION V: RESULTS AND CONCLUSIONS

Earth Dimensions, Inc. (EDI) has completed a wetland delineation study at the North America Park site located in the Town of West Seneca, County of Erie, and State of New York. A field investigation was conducted by a Soil Scientist and a Wetland Ecologist from EDI. The wetland delineation study identified sixteen (16) wetlands totaling 20.81± acres and two (2) streams present within the North America Park site. No waterbodies were identified within the investigation area.

Figure 5 depicts the vegetative communities as they existed at the time of the investigation. The upland within the investigation area consisted of successional old field, successional northern hardwood, conifer plantation and brushy cleared land communities. The wetland areas were found to consist of shallow emergent marsh, scrub-shrub swamp and invasive species marsh communities. The vegetative communities of the investigation area are described according to Ecological Communities of New York State (Edinger et al. 2014).

The successional old field community was dominated by the following species: spotted knapweed (*Centaurea stoebe*) and common plantain (*Plantago major*). This community had been brush-hogged prior to the site visit.

The successional northern hardwood community was dominated by the following species: black cherry (*Prunus serotina*), northern red oak (*Quercus rubra*), eastern cottonwood (*Populus deltoides*), Tatarian honeysuckle (*Lonicera tatarica*), multiflora rose (*Rosa multiflora*), European buckthorn (*Rhamnus cathartica*), apple (*Malus spp.*), tall hairy agrimony (*Agrimonia gryposepala*), Allegany blackberry (*Rubus alleghaniensis*), Virginia strawberry, Canada thistle (*Cirsium arvense*) and summer grape (*Vitis aestivalis*).

The conifer plantation community was dominated by the following species: Norway spruce (*Picea abies*), gray dogwood (*Cornus racemosa*), white ash (*Fraxinus americana*) and Alleghany blackberry (*Rubus alleghaniensis*).

The brushy cleared land community had been brush-hogged prior to the site visit. Species were still identifiable from stems and debris. Dominant species included: Tatarian honeysuckle (*Lonicera*

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tatarica), red maple (*Acre rubrum*), European privet (*Ligustrum vulgare*), gray dogwood (*Cornus racemosa*), red pine (*Pinus resinosa*), common pear (*Pyrus communis*), cockspur hawthorn (*Crataegus crus-galli*), white ash (*Fraxinus americana*), European buckthorn (*Rhamnus cathartica*), multiflora rose (*Rosa multiflora*), tall hairy agrimony (*Agrimonia gryposepala*), Virginia strawberry (*Fragaria virginiana*), Alleghany blackberry (*Rubus alleghaniensis*), garlic mustard (*Alliaria petiolata*), Kentucky bluegrass (*Poa pratensis*), Canada goldenrod (*Solidago canadensis*), summer grape (*Vitis aestivalis*) and poison ivy (*Toxicodendron radicans*).

Wetland W1 is a 0.10± acre scrub-shrub swamp dominated by green ash (*Fraxinus americana*), gray dogwood (*Cornus racemosa*), tall hairy agrimony (*Agrimonia gryposepala*) and flat-top goldenrod (*Euthamia graminifolia*). Soils within wetland W1 are mapped as Cayuga Silt Loam and had a topsoil color of 10YR3/1 with 3% 10YR5/8 mottles and a subsoil color of 10YR5/2 with 10% 10YR5/8 mottles. The texture is silt loam and silty clay loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W1 included high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W1 is Federally non-jurisdictional due to the lack of connectivity to a traditionally navigable water.

Wetland W2 is a 0.14± acre scrub-shrub swamp dominated by green ash (*Fraxinus americana*), gray dogwood (*Cornus racemosa*) and creeping bentgrass (*Agrostis stolonifera*). Soils within wetland W2 are mapped as Cayuga Silt Loam and had a topsoil color of 10YR3/1 with 2% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 3% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W2 included surface water (A1), high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W2 is Federally non-jurisdictional due to the lack of connectivity to a traditionally navigable water.

Wetland W3 is a 2.68± acre emergent marsh (maintained utility line ROW) dominated by gray dogwood (*Cornus racemosa*), nodding beggartick (*Bidens cernua*) and common rush (*Juncus effusus*). Soils within wetland W3 are mapped as Niagara Silt Loam and had a topsoil color of 10YR3/1 with 5% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 15% 10YR5/8 mottles. The texture is silt loam and silty clay loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W3 included surface water (A1), high water table (A2), saturation (A3) and water-

stained leaves (B9). It is EDI's professional opinion that Wetland W3 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Wetland W4 is a 0.01± acre emergent (Invasive Species) marsh dominated by common reed (*Phragmites australis*). Soils within wetland W4 are mapped as Niagara Silt Loam and had a topsoil color of 10YR3/1 with 5% 10YR5/8 mottles and a subsoil color of 10YR6/1 with 10% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W4 included surface water (A1), high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W4 is Federally non-jurisdictional due to the lack of connectivity to a traditionally navigable water.

Wetland W5 is a 0.05± acre emergent (Invasive Species) marsh dominated by common reed (*Phragmites australis*). Soils within wetland W5 are mapped as Niagara Silt Loam and had a soil color of 10YR3/1 with 7% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W5 included surface water (A1), high water table (A2) and saturation (A3). It is EDI's professional opinion that Wetland W5 is Federally non-jurisdictional due to the lack of connectivity to a traditionally navigable water.

Wetland W6 is a 0.11± acre scrub-shrub swamp dominated by eastern cottonwood (*Populus deltoides*), pussy willow (*Salix discolor*) and purple loosestrife (*Lythrum salicaria*). Soils within wetland W6 are mapped as Cayuga Silt Loam and had a soil color of 10YR3/1 with 2% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F6 indicator (Redox Dark Surface). Hydrology indicators present in Wetland W6 included saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W6 is Federally non-jurisdictional due to the lack of connectivity to a traditionally navigable water.

Wetland W7 is a 2.94± acre scrub-shrub swamp dominated by green ash (*Fraxinus pennsylvanica*), gray dogwood (*Cornus racemosa*), pussy willow (*Salix discolor*), creeping bentgrass (*Agrostis stolonifera*) and sensitive fern (*Onoclea sensibilis*). Soils within wetland W7 are mapped as Cayuga Silt Loam and had a soil color of 10YR4/1 with 5% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F6 indicator (Redox Dark Surface). Hydrology indicators present in Wetland W7 included high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's

professional opinion that Wetland W7 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Wetland W8 is a 0.32± acre emergent marsh dominated by pussy willow (*Salix discolor*) and common reed (*Phragmites australis*). Soils within wetland W8 are mapped as Cayuga Silt Loam and had a topsoil color of 10YR3/1 with 3% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 5% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W8 included surface water (A1), high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W8 is Federally non-jurisdictional due to the lack of connectivity to a traditionally navigable water.

Wetland W9 is a 2.68± acre scrub-shrub swamp dominated by green ash (*Fraxinus pennsylvanica*), gray dogwood (*Cornus racemosa*), tall hairy agrimony (*Agrimonia gryposepala*) and sensitive fern (*Onoclea sensibilis*). Soils within wetland W9 are mapped as Canandaigua Silt Loam and had a soil color of 10YR3/1 with 3% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F6 indicator (Redox Dark Surface). Hydrology indicators present in Wetland W9 included high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W9 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Wetland W10 is a 0.66± acre scrub-shrub swamp dominated by eastern cottonwood (*Populus deltoides*), green ash (*Fraxinus pennsylvanica*), gray dogwood (*Cornus racemosa*), tall hairy agrimony (*Agrimonia gryposepala*) and sensitive fern (*Onoclea sensibilis*). Soils within wetland W10 are mapped as Canandaigua Silt Loam and had a topsoil color of 10YR3/1 with 2% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 3% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W10 included surface water (A1), high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W10 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Wetland W11 is a 1.11± acre scrub-shrub swamp dominated by green ash (*Fraxinus pennsylvanica*), gray dogwood (*Cornus racemosa*), silky dogwood (*Cornus amomum*) and common rush (*Juncus effusus*). Soils within wetland W11 are mapped as Niagara Silt Loam and had a topsoil

color of 10YR3/1 with 3% 10YR5/8 mottles and a subsoil color of 10YR6/1 with 20% 10YR5/6 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W11 included high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W11 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Wetland W12 is a 1.58± acre scrub-shrub swamp dominated by green ash (*Fraxinus pennsylvanica*), reed canarygrass (*Phalaris arundinacea*) and sensitive fern (*Onoclea sensibilis*). Soils within wetland W12 are mapped as Canandaigua Silt Loam and had a topsoil color of 10YR4/1 with 2% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 15% 10YR5/8 mottles. The texture is silt loam and silty clay loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W12 included high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W12 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Wetland W13 is a 0.75± acre scrub-shrub swamp dominated by gray dogwood (*Cornus racemosa*), glossy buckthorn (*Frangula alnus*), silky dogwood (*Cornus amomum*), devil's beggartick (*Bidens frondosa*) and common rush (*Juncus effusus*). Soils within wetland W13 are mapped as Canandaigua Silt Loam and had a soil color of 10YR3/1 with 4% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F6 indicator (Redox Dark Surface). Hydrology indicators present in Wetland W13 included surface water (A1), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W13 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Wetland W14 is a 0.27± acre scrub-shrub swamp dominated by green ash (*Fraxinus pennsylvanica*), gray dogwood (*Cornus racemosa*), silky dogwood (*Cornus amomum*), common rush (*Juncus effusus*) and creeping bentgrass (*Agrostis stolonifera*). Soils within wetland W14 are mapped as Candaigua Silt Loam and had a topsoil color of 10YR4/1 with 5% 10YR5/6 mottles and a subsoil color of 10YR5/1 with 30% 10YR5/6 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W14 included saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W14 is Federally non-jurisdictional due to the lack of connectivity to a traditionally navigable water.

Wetland W15 is a 1.40± acre scrub-shrub swamp dominated by gray dogwood (*Cornus racemosa*) and green bulrush (*Scirpus atrovirens*). Soils within wetland W15 are mapped as Niagara Silt Loam and had a topsoil color of 10YR4/1 with 5% 10YR5/8 mottles and a subsoil color of 10YR5/1 with 35% 10YR5/6 mottles. The texture is silt loam and silty clay loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W15 included high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W15 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Wetland W16 is a 6.01± acre scrub-shrub swamp dominated by green ash (*Fraxinus pennsylvanica*), gray dogwood (*Cornus racemosa*) and broom sedge (*Carex scoparia*). Soils within wetland W16 are mapped as Canandaigua Silt Loam and had a topsoil color of 10YR3/1 with 7% 10YR5/8 mottles and a subsoil color of 10YR5/2 with 20% 10YR5/8 mottles. The texture is silt loam. This soil fits the NRCS F3 indicator (Depleted Matrix). Hydrology indicators present in Wetland W16 included high water table (A2), saturation (A3) and water-stained leaves (B9). It is EDI's professional opinion that Wetland W16 is Federally jurisdictional due to the apparent off-site connectivity to Buffalo Creek, a traditionally navigable water.

Stream 1 is identified as an unnamed tributary to Buffalo Creek and flows northerly through the southeastern portion of the site. This perennial channel is identified as a Class B stream by NYSDEC standards. The substrate consists of cobble, with moderately dense woody vegetation along the banks. Within the project area, Stream 1 is approximately 5 feet wide (8 feet at top of bank) with an average water depth of 6 inches. Stream 1 flows off-site to the northwest and enters Buffalo Creek approximately 2 miles northwest of the project area.

Stream 2 is identified as an unnamed tributary to Buffalo Creek and flows westerly in the western portion of the site. This ephemeral channel is not identified by NYSDEC standards. The substrate consists of silt and detritus, with moderately dense herbaceous vegetation along the banks. Within the project area, Stream 2 is approximately 1 foot wide with an average water depth of 3 inches. Stream 2 flows off-site to the west and enters Stream 1 approximately 1,000 feet northwest of the project area.

A map which depicts the site boundaries and the location of all observation points established during the field survey is included as Figure 6 in Appendix A of this report. Data forms are included as Appendix B. Appendix C includes representative photographs of the project area. Appendix D notes the references used during the preparation of this report and during the field investigation. Appendix E provides the names, addresses and phone numbers of the survey personnel involved in the wetland delineation study. W11I18a

SECTION VI: RECOMMENDATIONS

Sixteen (16) wetland areas and two (2) streams were identified during the course of a field investigation based upon the three parameter technique (vegetation, soils, and hydrology) outlined in the Corps Manual and Northcentral and Northeast Regional Supplement. It is EDI's professional opinion that wetlands W3, W7, W9, W10, W11, W12, W13, W15 and W16 and Stream 1 and 2 are regulated by the USACE under Section 404 of the Clean Water Act per the Rapanos decision. It is EDI's professional opinion that wetlands W1, W2, W4, W5, W6, W8 and W14 are isolated and non-jurisdictional under Section 404 due to the apparent lack of connectivity to a traditionally navigable water. It is also EDI's opinion that Stream 1 would be regulated by NYSDEC under Article 15 of the New York Conservation Law. USACE and NYSDEC approach their regulatory analyses by first considering avoidance of wetlands and minimization of wetland losses. EDI recommends the following:

(1) Submit this report to USACE and NYSDEC with a request for a wetland boundary confirmation and jurisdictional determination.

(2) If no impacts are proposed to federally regulated wetlands or state regulated streams based on the outcome of the jurisdictional determination, it is the professional opinion of EDI that the project may proceed without the need for Section 404 or Article 15 Permits.

(3) If any federally jurisdictional wetland impacts are proposed, it is EDI's recommendation that a Joint Application for Permit and supporting documentation be submitted to the USACE and NYSDEC with a request for a Section 404 Permit, Section 401 Water Quality Certification and/or Article 15 Permit.

NORTH AMERICA PARK

APPENDIX A - FIGURES

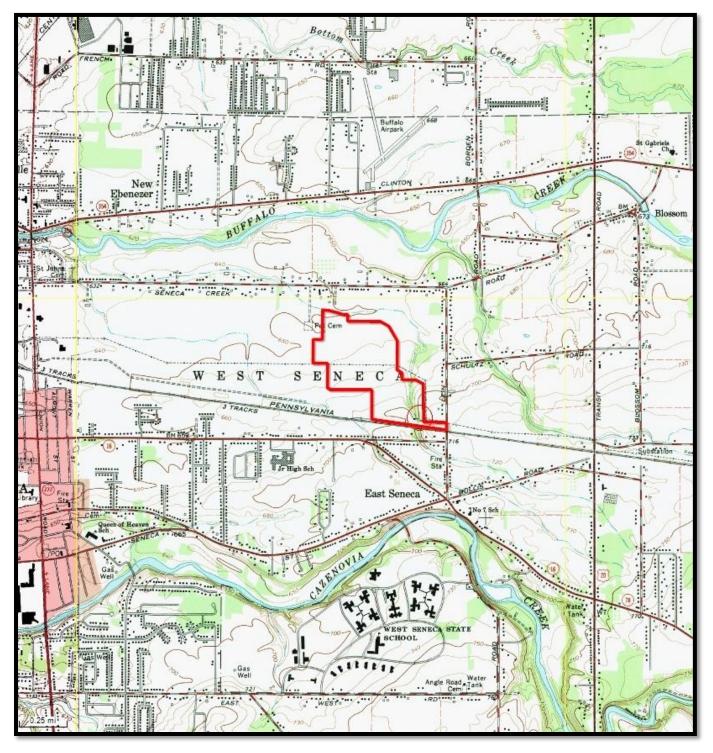


FIGURE 1: USGS 7.5 MINUTE TOPOGRAPHICAL MAP

Orchard Park Quadrangle / 2002 DeLorme North America Park Town of West Seneca, Erie County, New York





FIGURE 2: NATIONAL WETLANDS INVENTORY MAP http://www.fws.gov/wetlands/data/mapper.HTML (Visited 10/29/19)

North America Park

Town of West Seneca, Erie County, New York



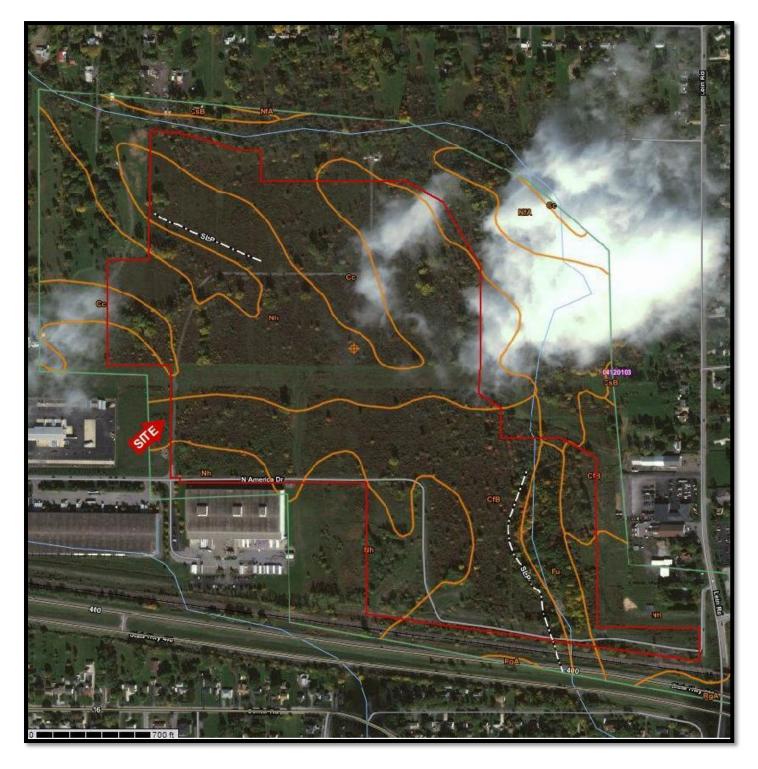


FIGURE 3: NRCS ERIE COUNTY SOIL SURVEY MAP http://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx (Visited 10/29/19)

> North America Park Town of West Seneca, Erie County, New York



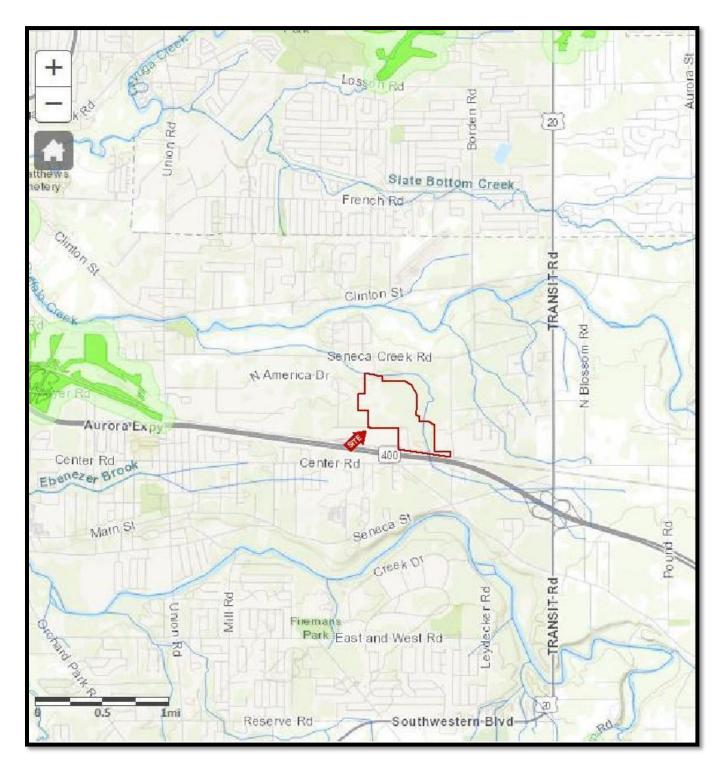
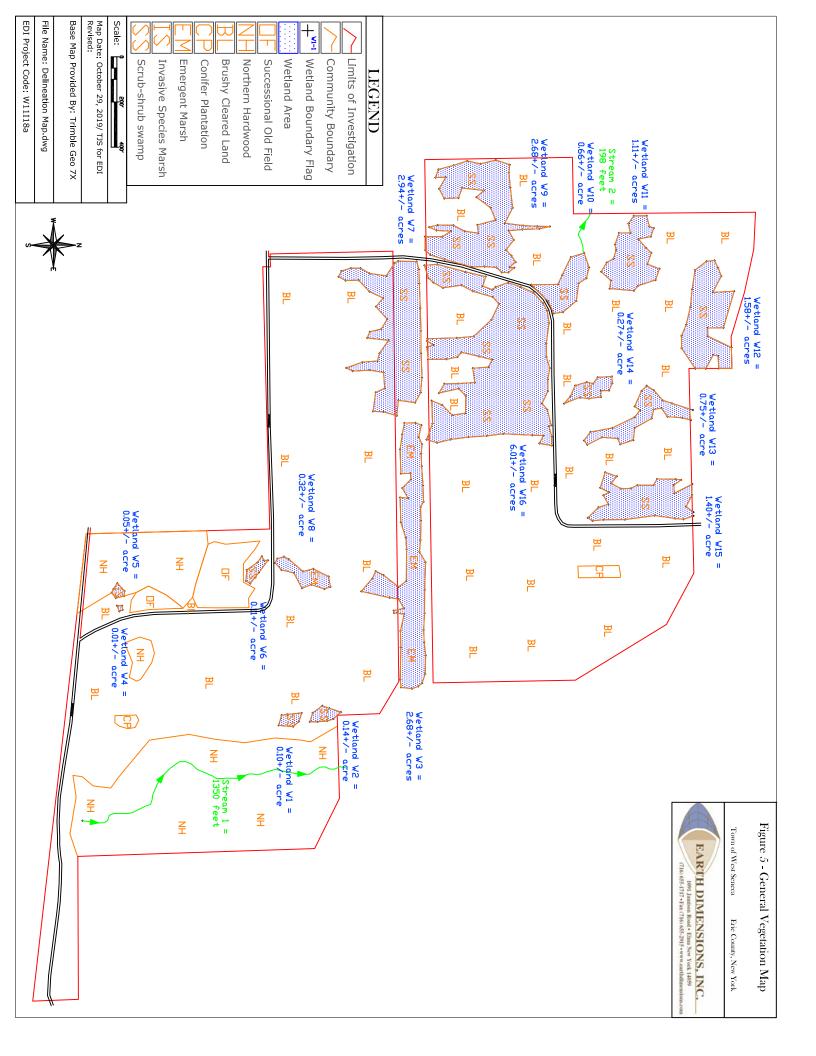
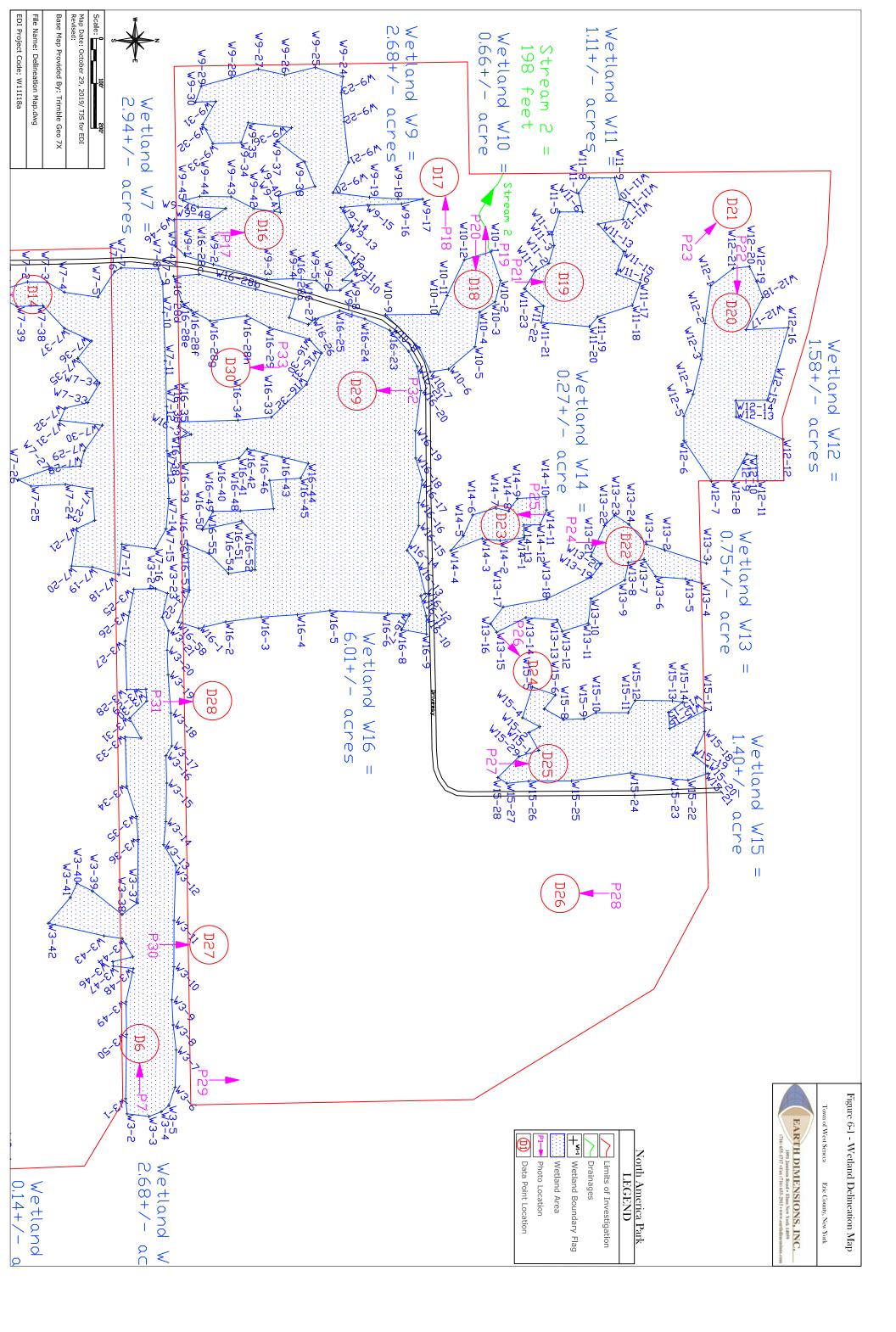


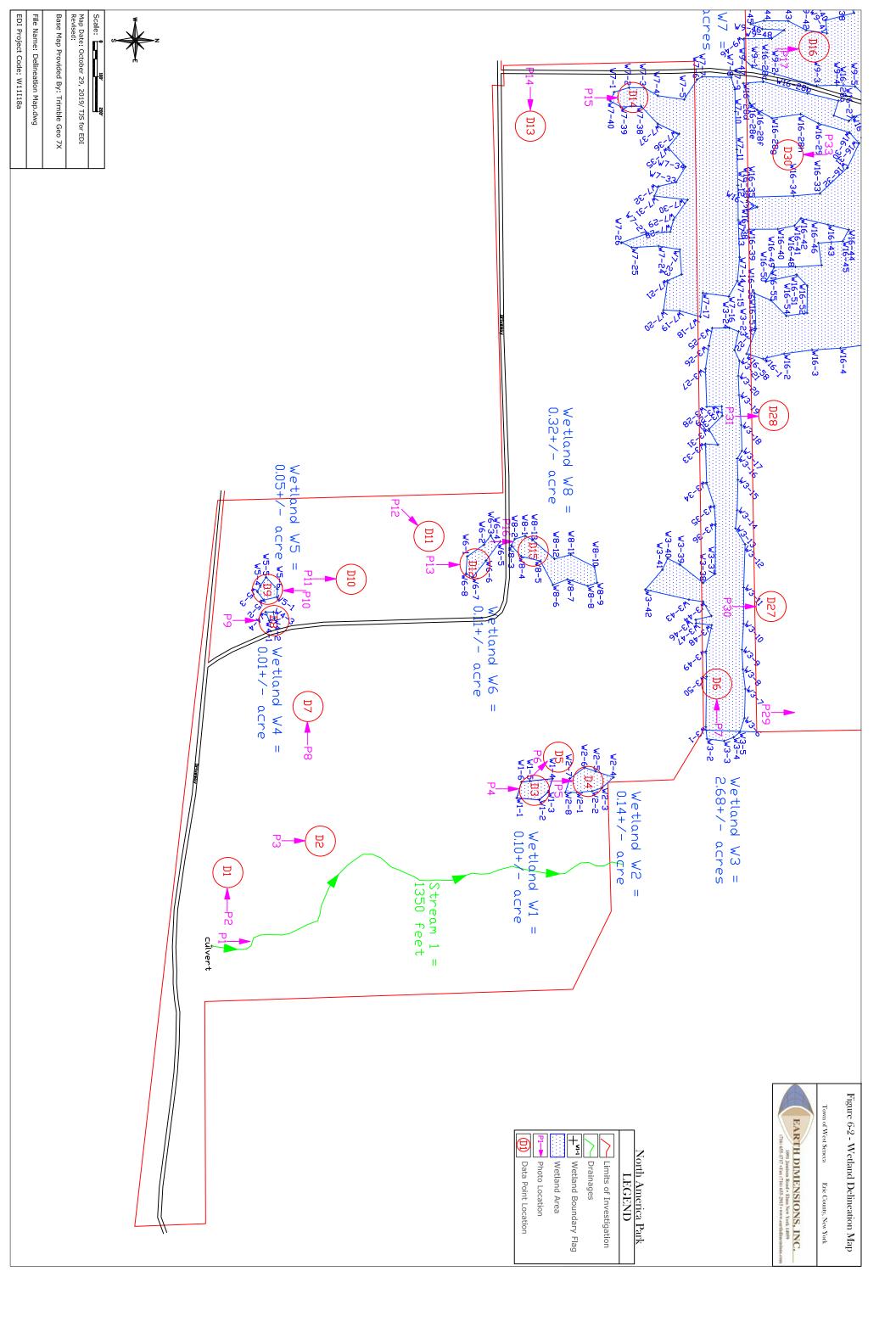
FIGURE 4: NYSDEC ENVIRONMENTAL RESOURCE MAPPER http://www.dec.ny.gov/imsmaps/ERM/viewer.htm (Visited 10/29/19)

North America Park Town of West Seneca, Erie County, New York









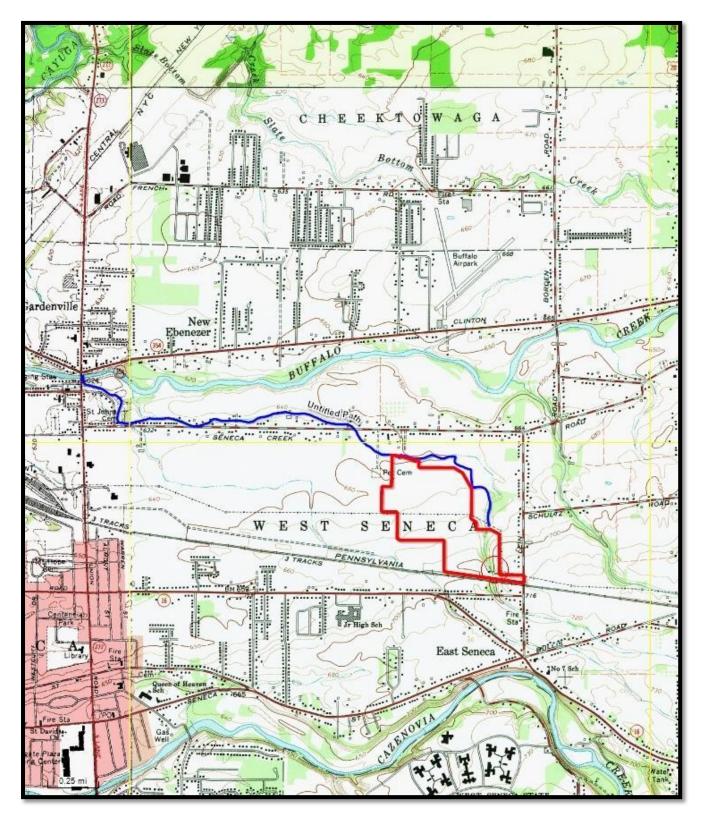


FIGURE 7: DRAINAGE MAP

Clarence Center Quadrangle / 2002 DeLorme Waterford Bike Path Town of Clarence, Erie County, New York





FIGURE 8: SITE AERIAL PHOTOGRAPH

http://gis2.erie.gov/HTML5/ErieCountyNY/PublicLaunchPage.aspx (Visited 10/29/19)

North America Park

Town of West Seneca, Erie County, New York



NORTH AMERICA PARK

APPENDIX B – DATA SHEETS

Project/Site North America Park	Town/County: West Sen	eca/Erie County Si	ampling Date:	10.9.	.19			
Applicant/Owner: Nanco Assoc		State: New Yor			Sampling Point:	DI		
Investigator(s): Scott Livingston								
Landform (hillslope, terrace, etc.)					Slope (%	6): <u> </u>		
Subragion (LDD or MLDA) LDD			Long:		Da	atum: NAD83	3	
Soil Map Unit Name: <u>CAYU</u>	LA STITL	5AM 3-8	1. 5/al	NW/LC	lassification:	VIA		
Are climatic / hydrologic condition					Sircumstances" pre		X No	
Are Vegetation, Soil							<u></u> 110	
Are Vegetation, Soil	, or Hydrology	naturally problematic	? (If needed, e	explain any ans	wers in Remarks.)			
SUMMARY OF FINDINGS : Att	ach site map showing	sampling point locat	ions, transect	s, important f	eatures, etc.			
Hydrophytic Vegetation Presen	t? Yoo	No ×	is the Sample	ed Area				
Hydric Soil Present?	ric Soil Present? Ves No X within a Wetland?				Yes N			
Wetland Hydrology Present?	Yes	No ×	If yes, optiona	al Wetland Site	ID:	1,0		
Remarks: (Explain alternative					-			
UPLANE SHA	alcona	1 maun	\backslash					
OPLANDS SAR	UDJ SLEVO)					
HYDROLOGY								
Wetland Hydrology Indicator	rs:			<u>s</u>	econdary Indicator	rs (minimum c	of two requ	lired)
Primary Indicators (minimum o	f one is required; check a	ill that apply)		<u></u>	Surface Soil Crac	ks (B6)		
Surface Water (A1)	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-Sease				er Table (C2)		
Water Marks (B1)		-lydrogen Sulfide Odo			Crayfish Burrows Saturation Visible		adery (C9)	١
Sediment Deposits (B2) Drift Deposits (B3)		Oxidized Rhizosphere Presence of Reduced		JOIS (C3)	Stunted or Stress			,
Algal Mat or Crust (B4)		Recent Iron Reduction	• •	(C6)	Geomorphic Posi	• •		
Iron Deposits (B5)		Thin Muck Surface (C		· · ·	Shallow Aquitard	(D3)		
Inundation Visible on Aer		Other (Explain in Rer			Microtopographic	Relief (D4)		
Sparsely Vegetated Conc	ave Surface (B8)				FAC-Neutral Test	: (D5)		
Field Observations:								
Surface Water Present?	Yes No 🔀		1 pq					
Water Table Present?	Yes No 🗶	A	ITA				No <u>×</u>	
Saturation Present? (includes capillary fringe)	Yes No 🔀	Depth (inches):		Wetland Hydi	rology Present?	Yes	NO	—
Describe Recorded Data (strea	am gauge, monitoring we	II, aerial photos, previ	ous inspection	s), if available:				
Demedia								
Remarks:								

US Army	Corps	of Engineers
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US Army Corps	of	Eng	inee	rs

<u>% Cover</u> Spe		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW , or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW , or FAC: Percent of Dominant Species That Are OBL, FACW , or FAC: Prevalence Index worksheet:
= T(That Are OBL, FACW, or FAC:
= T(Percent of Dominant Species That Are OBL, FACW , or FAC: (A/B)
= T(That Are OBL, FACW, or FAC: <u>25 7</u> . (A/B)
= To		
= T(<u>,</u>	Prevalence Index worksheet:
= To		Total % Cover of: Multiply by:
		OBL species x 1 =
		FACW species x 2 =
<u> </u>	FACU	FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totais: (A) (B)
		Prevalence Index = B/A =
<u></u>		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
		3 - Prevalence Index is < 3.0 ¹
12	V Enc.	4 - Morphological Adaptations ¹ (Provide supporting
		data in Remarks or on a separate sheet)
		Problematic Hydrophytic Vegetation ¹ (Explain)
		Indicators of hydric soil and wetland hydrology must
6 N	FACU	be present, unless disturbed or problematic.
5 N	FACU	Definitions of Vegetation Strata:
3 N	UPL	
2 N	FACU	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in height.
<u> </u>	Cover	
		Community Type: Brushy Cleared and
		Hydrophytic Vegetation
		Present? Yes No λ
	Total Cover	
tion of Photo	rest	
	١	A
Qo. all.	Brish - hugs	ed
	$\frac{10}{40} = 1$ $\frac{10}{12}$ $\frac{10}{10}$ $\frac{12}{10}$ $\frac{10}{10}$	10 Y FAC $-10 Y FAC$ $-10 = Total Cover$ $12 Y FAC$ $-10 Y$

ist) % 3 / 10 0 5 / 3 8 5 	Color (moist)		M M M M M M M M M M M M M M		Remark	
31, 100 73 85			M M M M M M M M M M M M M M M M M M M	<u>S</u> <u>l</u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>	PL=Pore Lining, N	
73 85			M M M M M M M M M M M M M M	ns. ² Location: F		
73 85			M M M M M M M M M M M M M M	ns. ² Location: F		
				Indicators for		
	Polyvalue B MLRA 149E Thin Dark S	elow Surface (S8) 3)		Indicators for		
	Polyvalue B MLRA 149E Thin Dark S	elow Surface (S8) 3)		Indicators for		
	Polyvalue B MLRA 149E Thin Dark S	elow Surface (S8) 3)		Indicators for		
	Polyvalue B MLRA 149E Thin Dark S	elow Surface (S8) 3)		Indicators for		
	Polyvalue B MLRA 149E Thin Dark S	elow Surface (S8) 3)		Indicators for		
	Polyvalue B MLRA 149E Thin Dark S	elow Surface (S8) 3)		Indicators for		
	Polyvalue B MLRA 149E Thin Dark S	elow Surface (S8) 3)		Indicators for		
	Polyvalue B MLRA 149E Thin Dark S	elow Surface (S8) 3)		Indicators for		
	MLRA 149E	3)	(LRR R.			
	Redox Depr		urbod or probl	Mesic Spot Red Parent Very Shallo Other (Expl	w Dark Surface (1	144A, 145, 149
	na nyarology musi be p					
l E						
MA				Hydric Soil Prese	nt? Yes	No <u>/</u>
	R R, MLRA 1498 getation and wetlan red):	R R, MLRA 149B) getation and wetland hydrology must be pred):	R R, MLRA 149B) getation and wetland hydrology must be present, unless dist red):	R R, MLRA 149B) getation and wetland hydrology must be present, unless disturbed or problemed):	R R, MLRA 149B) R R, MLRA 149B) Retation and wetland hydrology must be present, unless disturbed or problematic. red):	Red Parent Material (TF2) Very Shallow Dark Surface (Other (Explain in Remarks)

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

1

Project/Site_North America Park_Town/County: West Seneca/Erie CountyS	10.9.2019				
Project/Site_North America Park Town/County: vvest Seneca/Ene CountyS					
Applicant/Owner: <u>Nanco Associates LLC</u> State: <u>New Yor</u>					
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Townsh					
Landform (hillslope, terrace, etc.): SHOULDER Local relief (concave, con	nvex, none): <u>COMVEX</u> Slope (%): <u>S</u>				
Subregion (LRR or MLRA) _LRRL Lat:	Long: Datum: <u>NAD83</u>				
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>CAYUGA STLT LOAM</u> , 3-87	StopeNWI classification:/A				
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 naturally problematic					
SUMMARY OF FINDINGS : Attach site map showing sampling point locat	ions, transects, important features, etc.				
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area				
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X	within a Wetland? Yes <u>No X</u>				
Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.)					
UPLAND WOODS ON SHOULDER	TO BEEP RAVINE				
LHYDROLOGY					
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)				
Outlets Videl (Vi) Water-Standed Educes High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)				
Addute addit (210)	Dry-Season W ater Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor					
Video Maria (57) Nydrogen Schlade Standa Stand					
Drift Deposits (B3) Presence of Reduced					
Algal Mat or Crust (B4) Recent Iron Reduction					
Iron Deposits (B5) Thin Muck Surface (C	· · <u> </u>				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No ½_ Depth (inches):	A				
Water Table Present? Yes No Depth (inches):	10				
Saturation Present? Yes No Depth (inches):					
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	bus inspections), if available:				
Remarks:					

VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Prunus Senotina	35 Y FACU	Number of Dominant Species
2. Querus abru	20 Y FACU	That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant Species Across All Strata:
3		
4		Percent of Dominant Species That Are OBL, FACW, or FAC: 13% (A/B)
5		
6		Prevalence Index worksheet:
7		Total % Cover of:Multiply by:
	<u>55</u> = Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')		FACW species x 2 =
1. Chamnus cathartica		FAC species x 3 =
2. Promis Serviting	. سنون ک	FACU species x 4 = UPL species x 5 =
3. Malus 300.		OPL species x 5 Column Totals: (A)(B)
4. Cornus racemosa		
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
	47 = Total Cover	2 - Dominance Test is >50%
<u>Herb Ştratum</u> (Plot size: <u>5'</u>)		3 - Prevalence Index is < 3.0 ¹
A	12 Y FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Agrimonia gryposepale 2. Fubus alleytheniersis	10 Y FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Fragaria virginiana		
4. Rubus ideeus	7 N FACU	Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
5. Symplyotrichum ericoides	$\frac{3}{2}$ N Facu	Definitions of Vegetation Strata:
6. Euthania graminifolia		Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Symphystrichum lateriflerum	Eme I fr data	at breast height (DBH), regardless of height.
8. phleun pratense	I N FACU	Sapling/shrub - Woody plants less than 3 in. DBH
9		and greater than 3.28 ft (1 m) tall.
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 ft in
	<u> </u>	height.
Woody Vine Stratum (Plot size: <u>30'</u>)		
1		
2		Community Type: <u>SUCCESSIDNAL</u> Northern Hydrophytic Hardwoods
3		Hydrophytic Hard woods
4		Vegetation
······································		Present? Yes No X
Remarks: (Include photo numbers here or on a separate s		L
	on of Photo North	

N		o the depth				commit ute	e absence of indica	ators.)	
Depth	Matrix			ox Featu		Loc ²	Texture	Remark	e
nches)	Color (moist)	%	Color (moist)	%	Type	LOC	Техше	TREATEN	
0-6	107R 1/2	100					-5. X		
6-16	1328344	Inn	·				540		
		<u> </u>	<u> </u>						
						<u></u>	<u> </u>		
		<u></u>							
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					<u> </u>			<u></u>	
							an ann ann ann an ann ann an dhar ann an dhar ann ann ann ann an ann		
		·							
	ncentration, D=Deple	etion, RM=F	Reduced Matrix, CS=	Covered	or Coatec	Sand Grain		PL=Pore Lining, M Problematic Hy	
ydric Soil Ir	ndicators:						indicators for	FIODIematic ny	une cons .
Histoso			Polyvalue B		ace (S8) (L	.RR R,		(A10) (LRR K, L,	
	Epipedon (A2) Histic (A3)		MLRA 149E			MLRA 149B		rie Redox (A16) (L y Peat or Peat (S3	
Hydroge	en Sulfide (A4)		Loamy Muc	ky Minera	(F1) (LRF		Dark Surfa	ce (S7) (LRR K, L	, M)
Stratifie	ed Layers (A5) ed Below Dark Surface	- (A11)	Loamy Gley Depleted M		(F2)		Polyvalue I Thin Dark S	Below Surface (S8 Surface (S9) (LRR) (LRR K, L) : K. L)
Thick D	ark Surface (A12)	B (ATT)	Redox Dark	Surface (F6)		Iron-Manga	anese Masses (F1	2) (LRR K, L, F
Sandy N	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Da Redox Depl				Piedmont F	Floodplain Soils (F dic (TA6) (MLRA 1	19) (MLRA 14: 144A, 145, 149
Sandy F	Redox (S5)		Nedux Depi	63310113 (1	0,		Red Paren	t Material (TF2)	
Stripped	d Matrix (S6) urface (S7) (LRR R, N						Very Shallo	ow Dark Surface (lain in Remarks)	(F12)
	unace (37) (LKK K, N	ILRA 1498)						an in Konano,	
	hydrophytic vegetatior	n and wetlan	d hydrology must be j	present, u	nless distu	rbed or proble	ematic.		
	ayer (if observed):	~							
Туре:	NoNE		_						1
	hes):	4					Hydric Soil Prese	nt? Yes	No de
Depth (incl	hes):	3					riyune boint rese		

WETLAND DETERMINATION DATA FORM	I - Northcentral and Northeast Region
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Project/Site North America Park Town/County: West Seneca/Erie CountyS	ampling Date: 10.9.2019
Applicant/Owner: <u>Nanco Associates LLC</u> State: <u>New Yo</u>	
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Townsh	
Landform (hillslope, terrace, etc.): Depression Local relief (concave, co	nvex, none): <u>(ANCAVE</u> Slope (%): <u>< </u>
Subregion (LRR or MLRA) _LRRL Lat:	Long: Datum: <u>NAD83</u>
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>CAYUGA</u> <u>STLT LOAM</u> , <u>3-3</u>	16 Slopps NW I classification: P35
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 Vegetation, Soil, or Hydrology naturally problematic	
SUMMARY OF FINDINGS : Attach site map showing sampling point locat	ions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	is the Sampled Area
	within a Wetland? Yes X No
	If yes, optional Wetland Site ID:/
Wetland Hydrology Present? Yes No Remarks: (Explain alternative procedures here or in a separate report.)	
ISOLATED WETLAND POCKET	
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)	(B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor	r (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphere	
Drift Deposits (B3) Presence of Reduced	Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction	n in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C	7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches): N	14
Water Table Present? Yes 🔀 No Depth (inches): 🗇	<u>Cfac</u> e
Surface Water Present? Yes No Depth (inches): Water Table Present? Yes No Depth (inches): Saturation Present? Yes No Depth (inches): (includes capillary fringe) Yes No Depth (inches):	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	
Remarks:	

VEGETATION : Use scientific names of plants.

EGETATION : Use scientific names of plants.			Sampling Point:
· · · · · · · · · · · · · · · · · · ·	Ab	Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>) 1. <u>FAILY INUS</u> <u>PENNSY/VANTCA</u>	<u>%</u> 1C	<u>Species? Status</u>	Number of Dominant Species
2			Total Number of Dominant Species Across All Strata:(B)
4 5		<u> </u>	Percent of Dominant Species That Are OBL, FACW , or FAC: (A/B)
6		·	Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')		= Total Cover	OBL species x 1 = FACW species x 2 =
1. Cornus racemosa		Y FAC	FAC species x 3 =
2. Fraximus pennsylvanica		Y FACW	FACU species x 4 =
3. Cirnus Amomum		N FACW	UPL species x 5 = Column Totals: (A) (B)
4			
5			Prevalence Index = B/A =
6			Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7			$\frac{1}{2}$ 2 - Dominance Test is >50%
	-	= Total Cover	3 - Prevalence Index is < 3.0 ¹
<u>Herb Stratum</u> (Plot size: <u>5'</u>) 1. <u>Agrimania griaze pula</u>		Y FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Euthamia gaminifolia		Y FAL	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Agrostis statonifora		N FACU	1Indicators of hydric soil and wetland hydrology must
4. Juncus tenuis 5. Primella vidigaris	<u> </u>	N FAC	be present, unless disturbed or problematic.
6. Fragaria virginiana	<u>у</u> Ч	J FACU	Definitions of Vegetation Strata:
7. Philais andhacca	3	* FACW	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8. Symphystrichum lateriflorum	3	FAC	Sapling/shrub - Woody plants less than 3 in. DBH
9. Daucus Canata		1 Facu	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 tall.
12			Woody vines - All woody vines greater than 3.28 ft in
	65	otal Cover	height.
Woody Vine Stratum (Plot size: <u>30'</u>)			
1			Community Type: SCNb- ShNb
2			DCC-1R
3			Hydrophytic Vegetation
4			Present? Yes X No
Remarks: (Include photo numbers here or on a separate s	heet.	= Total Cover	
Photo # <u><u><u></u><u><u></u><u><u></u><u><u></u><u><u></u><u></u><u><u></u><u></u><u></u><u></u><u></u><u>P</u><u></u><u></u><u></u><u></u></u></u></u></u></u></u></u>		North	
Rece	nH	ruh-hogyed	
	le H	W1	
W	N. T	-+- VV	

SOIL

Profile Desc Depth	cription: (Describe to Matrix	o the depth		nt the in ox Featu		confirm t	he absence of ind	icators.)	
(inches)	Color (moist)	%	Color (moist)	<u>% reato</u>	Type ¹	Loc ²	_ Texture	Remarks	
	······································								
A.U	. a wor 3h.	~ ~		an Maria	_		~ 0		
	15 42 3/1 10 78 5/2	97	10425/2		<u> </u>	m			
4-16	1078512	90	10 425/8	10	C	m	Sicl		
		· ····································		****************		<u></u>			
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hanang tanàna mang tanàna amin'ny tanàna									
Type: C=Cc	oncentration, D=Deple	tion DM-D	Advand Matrix CS-	Covered	or Conted	Sand Grai		PL=Pore Lining, M=	Astriv
Hydric Soil I	Indicators:		reduced Matrix, CO-	Covered	UI CUAleu	Sanu Grai		or Problematic Hydr	
•								,	
Histoso			Polyvalue Be	low Surfa	ace (S8) (L	RR R,	2 cm Muc	ck (A10) (LRR K, L, ML	.RA 149B)
Black H	Epipedon (A2) Histic (A3)		MLRA 149B Thin Dark Su)) (LRR R.	MLRA 149	B) 5 cm Muc	airie Redox (A16) (LRR cky Peat or Peat (S3) (L	. R, L, R) .RR K, L, R)
Hydrog	gen Sulfide (A4)		Loamy Muck	y Mineral	(F1) (LRR		Dark Surf	face (S7) (LRR K, L, M)
Strating Deplete	ed Layers (À5) ed Below Dark Surface	(A11)	Loamy Gleye	trix (F3)	(F2)		Polyvalue Thin Dark	e Below Surface (S8) (L c Surface (S9) (LRR K,	.RR K, L) L)
Thick D	Dark Surface (A12)	,,,,,,	Redox Dark	Surface (F6)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
Sandy Sandy	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Date 2 Depleted Date 2 Depleted Date 2 Depleted Date 2 Depresented Date 2 Depres	rk Surface essions (F	e (F7) :8)		Piedmoni Mesic Sn	t Floodplain Soils (F19) odic (TA6) (MLRA 144	(MLRA 1498) A. 145. 149B)
Sandy	Redox (S5)				0)		Red Pare	ent Material (TF2)	
Strippe Dark S	ed Matrix (S6) iurface (S7) (LRR R, M						Very Sha	llow Dark Surface (TF1 plain in Remarks)	2)
		L. (~ 1400)							
Indicators of	hydrophytic vegetation	and watten	thudrology must be p	ropont ur	loop diatur	had ar prob	Iomotio		
Restrictive I	ayer (if observed):	and wettand	nydrology must be pi	esent, ui					
Type:									
	Ş. ø		-						NI .
Depth (inc	thes):NA		-				Hydric Soil Pres	sent? Yes 🔀	NO
Remarks:									

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Project/Site <u>North America Park</u> Town/County: West Seneca/Erie CountySam	pling Date: 16.9.2019
Applicant/Owner: <u>Nanco Associates LLC</u> State: <u>New York</u>	
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Township,	
Landform (hillslope, terrace, etc.): Depression Local relief (concave, conve	
ŧ.	
Soil Map Unit Name: CATUGA 3217 LOAM 3-8% S	1000 Dec NIM Lalaceitaction: P55 (Mawa)
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 naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map showing sampling point location	s, transects, important features, etc.
	the Sampled Area
	yes, optional Wetland Site ID:
Wetland Hydrology Present? Yes Mo If Remarks: (Explain alternative procedures here or in a separate report.) If	
ISOLATED WETLAND POCKET	
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)
Xurface Water (A1) Xurface Water (A1)	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1) Hydrogen Sulfide Odor (C	
Sediment Deposits (B2) Oxidized Rhizospheres of	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4) Recent Iron Reduction in Iron Deposits (B5) Thin Muck Surface (C7)	Tilled Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No X Depth (inches): $2^{-2^{\circ}}$	1201
Water Table Present? Yes \cancel{Y} No Depth (inches): $\underline{3''}$	·····
Pretu Observations: Surface Water Present? Yes Yes Yes No Depth (inches): $2''$ Yes Yes Y	ACL Wetland Hydrology Present? Yes X No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous	
Remarks:	

VEGETATION : Use scientific names of plants.		Sampling Point:
	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>) 1. Fraxing Pennsylvnnica	<u>% Cover Species? Status</u>	Number of Dominant Species That Are OBL, FACW , or FAC: (A)
2 3		Total Number of Dominant Species Across All Strata: (B)
4 5		Percent of Dominant Species That Are OBL, FACW , or FAC:(A/B)
6 7		Prevalence Index worksheet: Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15'	= Total Cover	OBL species x 1 = FACW species x 2 =
1. Cornus amonum		FAC species x 3 =
		FACU species x 4 =
2. Lonicera tatarica	10 N Freu	UPL species x 5 =
3. tranquila alous	4 N FAR	OPL species x 5 Column Totals: (A)
4. Fraxinus pennsylvaniza	3 N FACW	
5		Prevalence Index = B/A = Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7		2 - Dominance Test is >50%
	<u>57</u> = Total Cover	3 - Prevalence Index is < 3.01
<u>Herb Stratum</u> (Plot size: <u>5</u>) 1. Agrostris Stebni (Era	35 Y FACW	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
	12 N FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
2. Agrimonia gryppepala 3. Germ depoision	C N FAC	
4. Bidens Frondosa	5 N FACW	1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Scrpus atrouvens	5 N OBL	Definitions of Vegetation Strata:
6. Rubus alleghanicusis	5 N FACU	-
7. Solidago rugosa	3 N FACW	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8. <u>Symphyotrichum</u> lateriflonm 9	I N FAC	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 tall.
12		Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: <u>30</u> ')	= I otal Cover	
1		
2		Community Type: Schub- Sharb
3		Hydrophytic PS5-7 B
		Vegetation
4	= Total Cover	Present? Yes X No
Remarks: (Include photo numbers here or on a separate	sheet.)	
Photo # <u>95</u> Direc	tion of Photo Nor th	
	in a har at	
Reco	tly Bruch-hogged	
	, *	
	Wetland W2	

Sampling Point: 04

epth	Matrix		needed to documen Redo	x Featur				
iches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
2-la	104231,	98		teres in	and the	, Ar A	0	
- Cont	1010 11	<u> </u>	1074-13		Contract	<u> </u>	- A & K	
6-16	104R5/1	97	MARS/8.	3	Careto -	<u>pr</u>	<u></u>	
			······································					
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							*	
					<u> </u>			
	ng a gabar ay sa a sana a bara yang katalangan katan in managar katala	and an operation of the second second second						
pe: C=Co	ncentration, D=Depl	etion RM=F	Reduced Matrix, CS=(Covered	or Coated	d Sand Gra	ins. ² Loca	tion: PL=Pore Lining, M=Matrix.
	ndicators:		toddood matrix oo					rs for Problematic Hydric Soils ³ :
Histoso Histoso	ol (A1) Epipedon (A2)		Polyvalue Be MLRA 149B)		ice (S8) (I	LRR R,	2 cm Coas	Muck (A10) (LRR K, L, MLRA 149B) St Prairie Redox (A16) (LRR K, L, R)
Black H	listic (A3)		Thin Dark Su	rface (S9			B) 5 cm	Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	jen Sulfide (A4) ed Layers (A5)		Loamy Mucky	y Mineral	(F1) (LRI	R K, L)	Dark	Surface (S7) (LRR K, L, M) value Below Surface (S8) (LRR K, L)
Deplete	ed Below Dark Surface	e (A11)	Z Depleted Mai	trix (F3)	(Г2)		Thin	Dark Surface (S9) (LRR K, L)
Thick D	Dark Surface (A12)		Redox Dark	Surface (I			Iron-	Manganese Masses (F12) (LRR K, L, F
Sandy Sandy	Mucky Mineral (S1) Gleyed Matrix (S4)		Redox Dark S Depleted Dar Redox Depre	Surface (I k Surface	e (F7)		Iron- Pied Mesi	Manganese Masses (F12) (LRR K, L, F mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 149)
Sandy Sandy Sandy	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Redox Dark S	Surface (I k Surface	e (F7)		Iron- Piedi Mesi Red	Manganese Masses (F12) (LRR K, L, R mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 149) Parent Material (TF2)
Sandy Sandy Sandy Strippe	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Redox Dark 3 Depleted Dar Redox Depre	Surface (I k Surface	e (F7)		Iron- Pied Mesi Red Very	Manganese Masses (F12) (LRR K, L, F mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 149)
Sandy Sandy Sandy Strippe	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Redox Dark 3 Depleted Dar Redox Depre	Surface (I k Surface	e (F7)		Iron- Pied Mesi Red Very	Manganese Masses (F12) (LRR K, L, F mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 149I Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy Sandy Sandy Strippe	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6)		Redox Dark 3 Depleted Dar Redox Depre	Surface (I k Surface	e (F7)		Iron- Pied Mesi Red Very	Manganese Masses (F12) (LRR K, L, F mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 149I Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy Sandy Sandy Strippe Dark S	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Id Matrix (S6) urface (S7) (LRR R, N	1LRA 149B)	Redox Dark 3 Depleted Dar Redox Depre	Surface (I rk Surface essions (F	e (F7) 8)	rbed or prob	Iron- Pied Resi Red Very Othe	Manganese Masses (F12) (LRR K, L, R mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 1491 Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy Sandy Sandy Strippe Dark S dicators of	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Id Matrix (S6) urface (S7) (LRR R, N hydrophytic vegetation	1LRA 149B)	Redox Dark 3 Depleted Dar Redox Depre	Surface (I rk Surface essions (F	e (F7) 8)	rbed or prob	Iron- Pied Resi Red Very Othe	Manganese Masses (F12) (LRR K, L, F mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 149I Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy Sandy Strippe Dark S dicators of strictive L	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Id Matrix (S6) urface (S7) (LRR R, N hydrophytic vegetation ayer (if observed):	ILRA 149B) n and wetlan	Redox Dark 3 Depleted Dar Redox Depre	Surface (I rk Surface essions (F	e (F7) 8)	rbed or prob	Iron- Pied Resi Red Very Othe	Manganese Masses (F12) (LRR K, L, R mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 1491 Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy Sandy Sandy Sandy Strippe Dark S dicators of strictive L Type:	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) Id Matrix (S6) urface (S7) (LRR R, N hydrophytic vegetation ayer (if observed):	ILRA 149B) n and wetlan	Redox Dark 3 Depleted Dar Redox Depre	Surface (I rk Surface essions (F	e (F7) 8)	rbed or prob	Iron- Pied Red Very Othe	Manganese Masses (F12) (LRR K, L, R mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 149) Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy Sandy Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	ILRA 149B) n and wetlan	Redox Dark 3 Depleted Dar Redox Depre	Surface (I rk Surface essions (F	e (F7) 8)	rbed or prob	Iron- Pied Red Very Othe	Manganese Masses (F12) (LRR K, L, R mont Floodplain Soils (F19) (MLRA 149 c Spodic (TA6) (MLRA 144A, 145, 1491 Parent Material (TF2) Shallow Dark Surface (TF12)
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region			N DATA FORM	- Northcentral a	and Northeast Region
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Project/Site <u>North America Park</u> Town/County: <u>We</u>	nt Sonoon/Eric County Sar	noting Data: 10.9.2019
Applicant/Owner: <u>Nanco Associates LLC</u>		
Investigator(s): <u>Scott Livingstone & Tom Somervill</u>		
Investigator(s). <u>Scott Livingstone & Tom Somervill</u>	eSection, rownship	/ex, none): <u>COMVEX</u> Slope (%): <u>2</u>
Subregion (LRR or MLRA) <u>LRRL</u> Lat:	- 1.00 2 0	Long: Datum: NAD83
	,	1. 510 pes_ NWI classification:
Are climatic / hydrologic conditions on the site typic	al for this time of year? Yes _	_X_ 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 sho	wing sampling point locatio	ns, transects, important features, etc.
1		s the Sampled Area
		within a Wetland? Yes No
Wetland Hydrology Present? Yes		f yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here o	No <u>></u> I	ryes, optional weitand Site ID.
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required
Primary Indicators (minimum of one is required; o		Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (E	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16) Dry-Season W ater Table (C2)
Saturation (A3) Water Marks (B1)	Marl Deposits (B15) Hydrogen Sulfide Odor (<u> </u>
Sediment Deposits (B2)		on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced In	
Algal Mat or Crust (B4)	Recent Iron Reduction in	n Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rema	
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No	K Depth (inches):	A
	Depth (inches):	
	Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitor	ng well, aerial photos, previou	is inspections), if available:
Remarks:		
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Project	Code:	W11I18a	
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EGETATION : Use scientific names of plants.				S	Sampling Point:	5
	Absolute		ant Indicator	Dominance Test works	heet:	
Tree Stratum (Plot size:30')			<u>s? Status</u>	Number of Dominant Sp That Are OBL, FACW , c		_ (A)
•				Total Number of Domina Species Across All Strat	1	(B)
				Percent of Dominant Spo That Are OBL, FACW , o		(A/B)
				Description of Index work	abaat:	
					Multiply by:	
	<u></u>	= Total	Cover	OBL species		
apling/Shrub Stratum (Plot size: <u>15</u>)	l.			FACW species	x 2 =	
Pyrus Communits		Y I	UPL	FAC species	x 3 =	
Cratacaus Coursalli	15	Y	FAC	FACU species	x 4 =	
Cratacyus Crus-galli		$-\overline{v}$		UPL species	x 5 =	
Fraxinus americana			FACU	Column Totals:	(A)	(B)
Lonicera totarica Cornus recemosa	<u> </u>		FACU FAC	Prevalence Index	= B/A =	
				Hydrophytic Vegetatio	n Indicators:	
				1 - Rapid Test for H		
				2 - Dominance Test		
	60	• = Total	Cover	3 - Prevalence Inde		
erb Stratum (Plot size: <u>5</u> '						unnorting
Argrimonia grypozpala	25	, Y	FACU	4 - Morphological A	or on a separate she	et)
Formation with house		<u> </u>	FACU	Problematic Hydrop	•	
<u>. Fragaria virginiana</u>						
. Pou protensis . Symphys trichum ericades	<u> </u>	<u>N</u>	FACU	1Indicators of hydric soil be present, unless distu		gy must
. Solidigo Canadensis	3	N	FACU	Definitions of Vegetati	on Strata:	
•				Tree - Woody plants 3 ir at breast height (DBH),	1. (7.6 cm) or more in regardless of height	diameter
,				Sapling/shrub - Woody and greater than 3.28 f		DBH
0				Herb - All herbaceous (of size, and woody plar	non-woody) plants, re nts less than 3.28 ft ta	gardless all.
1				Woody vines - All wood		
		= Total Co	ver	height.		
Noody Vine Stratum (Plot size: 30')						
Toxico dendron radicans	10			Community Type:	inshy cleared	land
					ı	
3				Hydrophytic Vegetation		
·				Present? Yes	s No_X	
		🔈 = Tota	l Cover			
Remarks: (Include photo numbers here or on a separate	sheet.)					
Photo # 96 Direc	tion of Phr	oto Nor	thuest			
Photo # Direc		<u></u>	1 - 1 Marshall			
			. 1	,		
	n	11 0	ho.	nel		
	fleen	thy c	prush-ho.	17		

Matrix Redox Features Inches) Color (moist) % Type ¹ Loc ² Texture Remarks 2 - 16 10 YM Y/1 10 Q S.M	epth	iption: (Describe t	o the depth	needed to document the indicator or confirm the	e absence of inc	dicators.)	
2-16 10 // 4 // 100 2-16 10 // 4 // 100 2-16 10 // 4 // 100 2-16 2.4 2-16 2.4 2-16 2.4 2-16 2.4 2-16 2.4 2-16 2.4 2-16 2.4 2-17 2.4 2-16 2.4 2-17 2.4 2-16 2.4 2-17 2.4 2-16 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-16 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17 2.4 2-17	ncnes)	Matrix		Redox Features			łre
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ?Location: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Soils* ydric Soil Indicators: Indicators for Problematic Hydric Soils* Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histis (A3) MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (S1) Depleted Below Dark Surface (A1) Depleted Dark Surface (F8) Thic Dark Surface (A1) Depleted Dark Surface (F9) Thic Dark Surface (S3) Thin Dark Surface (S9) (LRR K, L, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Dapleted Below Dark Surface (A11) Depleted Dark Surface (F9) Thin Dark Surface (S3) Thin Dark Surface (S9) (LRR K, L, M Sandy Micky Mineral (S1) Depleted Dark Surface (F7) Sandy Medor (S5) Redox Depressions (F8) Stratige Layers (A5) Redox Depressions (F8) Stratige Layers (A5) URR K, L Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (S7) Stratige Layers (A5) Redox Depressions (F8) Stratige Layers (A5) Histosol (C112) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (S7) (LR R		Color (moist)	%	Color (moist) % i ype Loc	Texture	Nema	<u>N3</u>
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ?Location: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Soils* ydric Soil Indicators: Indicators for Problematic Hydric Soils* Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histis (A3) MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (S1) Depleted Below Dark Surface (A1) Depleted Dark Surface (F8) Thic Dark Surface (A1) Depleted Dark Surface (F9) Thic Dark Surface (S3) Thin Dark Surface (S9) (LRR K, L, MLRA 149B) Stratified Layers (A5) Loamy Mucky Mineral (F1) Dapleted Below Dark Surface (A11) Depleted Dark Surface (F9) Thin Dark Surface (S3) Thin Dark Surface (S9) (LRR K, L, M Sandy Micky Mineral (S1) Depleted Dark Surface (F7) Sandy Medox (S5) Redox Depressions (F8) Stratige Layers (A5) Redox Depressions (F8) Stratige Layers (A5) URR K, L Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (S7) Stratige Layers (A5) Redox Depressions (F8) Stratige Layers (A5) Histosol (C112) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (S7) (LR R	A 1/				were at		
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Indicators: Indicators for Problematic Hydric Soils Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) 2 cm Muck (A10) (LRR K, L, MLRA 1498) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Mucky Mineral (F1) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Trin-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 1445, 1 Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 1449B) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Minch Singer (S7) (LRR R, MLRA 149B) Type: Mode Type: Minch Singer (F12) Depth (inches): Minch Singer (F12) Depth (i							
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Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, M) Hydrogen Sulfide Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Solis (F19) (MLRA 1445, 1 Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) rtype: MOME MA Hydric Soil Present? Yes No Depth (inches): MA Hydric Soil Present? Yes No A					Indicators	for Problematic H	lydric Soils ³ :
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Stratified Layers (Å5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 1 Sandy Redox (S5) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes No Type:					Dark Su	urface (S7) (LRR K,	L, M)
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Sandy Gleyed Matrix (S4)	Thick Da	ark Surface (A12)	æ (A11)	Redox Dark Surface (F6)	Iron-Ma	anganese Masses (F	12) (LRR K, L, F
					Piedmo Mesic S	ont Floodplain Solls (Spodic (TA6) (MLRA	144A, 145, 149
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:	Sandy F	Redox (S5)			Red Pa	rent Material (TF2)	
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Type: Depth (inches): Hydric Soil Present? Yes No	Stripped	a Matrix (S6) urface (S7) (LRR R, I	MLRA 149B)		Other (I	Explain in Remarks)	(11 12)
estrictive Layer (if observed): Type:							
estrictive Layer (if observed): Type:							
estrictive Layer (if observed): Type:	Indicators of h	hydrophytic vegetatio	n and wetland	I hydrology must be present, unless disturbed or proble	ematic.		
Depth (inches): No No		ayer (if observed):					
	Туре:	NONE		_			
emarks:	Depth (inch	nes):	<u> </u>		Hydric Soil Pr	resent? Yes	No_ <u>X</u> _
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WETLAND DETERMINATION DAT	A FORM - Northcentral and Northeast Region
Project/Site North America Park Town/County: West Seneca/Erie County	Sampling Date: 10.9.2019
Applicant/Owner: Nanco Associates LLC State: New Y	
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Town	
Landform (hillslope, terrace, etc.): DPD/C550- Local relief (concave,	
•	
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>NTAGARA SILT LOAM</u> , T	11 Substration NWI classification: PEM
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation, Soil, or Hydrology significantly disturbed	In the second
Are Vegetation, Soil, or Hydrology naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map showing sampling point loc	
Hudronhutia Vanatatian Drassu (0	Is the Sampled Area
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID:3
Remarks: (Explain alternative procedures here or in a separate report.)	
ISOLATED DEPRESSIONAL	WET AND WITTH IN
190LATED DEPRESSIONE	WE GET S STATE
TRANSMISSION LINE ROW	
Nater With	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
✓ Surface Water (A1) ★ Water-Stained Leav	
High Water Table (A2)	•
Saturation (A3) Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1) Hydrogen Sulfide O	
	eres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Reduct	ed Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduct	
Iron Deposits (B5) Thin Muck Surface Inundation Visible on Aerial Imagery (B7) Other (Explain in F	
Inundation Visible on Aerial Imagery (B7) Other (Explain in F	FAC-Neutral Test (D5)
Field Observations:	// 0 // 0 // 0 // 0 // 0 // 0 //
Surface Water Present? Yes X No X Depth (inches):	7-7 (20/2)
Surface Water Present? Yes X No X Depth (inches): Depth (inches): Water Table Present? Yes X No Depth (inches): Surface X	Surfacé
Saturation Present? Yes No Depth (inches):	Sareace Wetland Hydrology Present? Yes <u>X</u> No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pro	evious inspections), il avaliable.
Remarks:	

Project	Code:	W11I18a
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/EGETATION : Use scientific names of plants.		Sampling Point:
<u>Tree Stratum</u> (Plot size: <u>30'</u>) 1		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW , or FAC:(A)
2		Total Number of Dominant Y Species Across All Strata: Y
4		Percent of Dominant Species That Are OBL, FACW , or FAC: (A/B)
6		Prevalence Index worksheet: Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:15'	.)	FACW species x 2 =
1. Corrus amomum	8 Y FACW	FAC species x 3 =
2. Friknis americana		FACU species x 4 =
3		UPL species x 5 =
4		Column Totals: (A) (B)
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		X 1 - Rapid Test for Hydrophytic Vegetation
	12_ = Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: <u>5'</u>)		 3 - Prevalence Index is < 3.0¹ 4 - Morphological Adaptations¹ (Provide supporting
1. Bidens cernua		data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation ¹ (Explain)
2. Juncus effusus	<u>20 Y OBL</u>	
3. Phularis annolinaica	-	Indicators of hydric soil and wetland hydrology must
4. Bidens Frondosa	10 N FACW	be present, unless disturbed or problematic.
5. Euthania gmminifolia	9 N FAC	Definitions of Vegetation Strata:
6. Agrostis stolonifica	6 N Fricw	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Scirpus cyperinus	3 N OBL	at breast height (DBH), regardless of height.
8. Juncus tenvis	2 N FAC	Sapling/shrub - Woody plants less than 3 in. DBH
9. CARK SLOPATICA	2 N FACW	and greater than 3.28 ft (1 m) tall.
10. Symphystrichum kateriflorum	1 N FAC	Herb - All herbaceous (non-woody) plants, regardless
11. Ly coous americana		of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
12	95 = Total Cover	height.
Woody Vine Stratum (Plot size:30')		
1		Community Type: Emer next Marsh
2		Community Type: Emergent Mursh DEMIB
3		Hydrophytic Vegetation
4		Present? Yes <u>V</u> No
	= Total Cover	
Remarks: (Include photo numbers here or on a separat		
Photo # Dire	ction of Photo	
	wethen w3	

M 5.0 M 100	IOYR 31, 95 IOYR 518 S M S.A. IOYR 511 8.5 IOYR 518 S IOYR 518 S.A. IOYR 518 IOYR 518 IOYR 518 IOYR 518 S.A. IOYR 518 S.A. Indicators: Indicato	(inches) Color (moist) % Type! Loc ² Texture Ref 0-4 10 YR ³¹ / ₁ 95 10 YR ⁵¹ / ₈ 5 C M 5/R	
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Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Dark Surface (S7) (LRR K, L, M) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149) Mesic Spodic (TA6) (MLRA 144A, 145, 149E Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Other (Explain in Remarks) turbed or problematic.	ic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) rogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) itified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) ieted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) ieted Below Dark Surface (A12) Redox Dark Surface (F6) Thin Dark Surface (F7) dy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 149E) dy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149E) oped Matrix (S6) Very Shallow Dark Surface (TF12) Very Shallow Dark Surface (TF12) oth reduction and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks)	Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR R, MLRA 149B) Thick Dark Surface (A12) Polyvalue Below Dark Surface (A12) Polyvalue Below Surface (F6) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soil Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLI Stripped Matrix (S6) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remark mdicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remark Type:	
	e Layer (if observed): NGNE	estrictive Layer (if observed): Type:	RR K, L) F12) (LRR K, L, R (F19) (MLRA 149 A 144A, 145, 149 A (TF12)
Hydric Soil Present? Yes 📈 No	NONE	Type: NGNE Depth (inches): N/A Hydric Soil Present? Yes	
Hydric Soil Present? Yes <u></u> No		Depth (inches): Hydric Soil Present? Yes	
			K No
		emarks:	

Project/Site North America Park Town/County: West Seneca/Erie County	10,9,70/9
Applicant/Owner: <u>Nanco Associates LLC</u> State: <u>New Yo</u>	
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Towns	ship, Range: <u>206.07-1-26.1</u>
Landform (hillslope, terrace, etc.): TOPSO ? ?! Local relief (concave, co	onvex, none):
Subregion (LRR or MLRA) _ LRRL _ Lat:	Long: Datum: <u>NAD83</u>
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>CAYVGA SILT LOAM</u> , 3	3 - 8 1/2 5/01 ² NW I classification: <u>M/A</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	s 🗡 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed?	
Are Vegetation, Soil, or Hydrology naturally problemati	
SUMMARY OF FINDINGS : Attach site map showing sampling point loca	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID://A
Remarks: (Explain alternative procedures here or in a separate report.)	
LHYDROLOGY	
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 W ater Table (C2)
Water Marks (B1) Hydrogen Sulfide Od	or (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizosphere	
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (0	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):)/ <u>A</u>
Water Table Present? Yes No 🔀 Depth (inches):)/A
Saturation Present? Yes No 🖌 Depth (inches): 🦯	VA Wetland Hydrology Present? Yes No
(includes capillary fringe)	tique inenactions) if quallable:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	nous inspections), il avaliable.
Remarks:	

Project Code:	W11I18a
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Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 6 (B) Percent of Dominant Species That Are OBL, FACW, or FAC: 33 Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species X 1 = FACW species X 2 = FAC species X 4 = UPL species X 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.01 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
That Are OBL, FACW, or FAC:
Species Across All Strata: (B) Percent of Dominant Species 33) (A/B) Prevalence Index worksheet: 33) (A/B) Prevalence Index worksheet: Multiply by: (A/B) OBL species x 1 = (A/B) FACW species x 2 = (A/B) FAC species x 3 = (A/B) FACU species x 5 = (B) VPL species x 5 = (B) Orevalence Index = B/A = (B) (B) Prevalence Index = B/A = (B) Prevalence Index = S/A = (B) All of the st for Hydrophytic Vegetation (B)
That Are OBL, FACW, or FAC: 35 3 (A/B) Prevalence Index worksheet:
Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.01
Total % Cover of: Multiply by: OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.01
OBL species x 1 = FACW species x 2 = FAC species x 3 = FACU species x 4 = UPL species x 5 = Column Totals: (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.01
FACW species
FAC species
FACU species
UPL species x 5 = Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0 ¹
Column Totals: (A) (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0 ¹
Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0 ¹
 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0¹
 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0¹
2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0 ¹
3 - Prevalence Index is < 3.0 ¹
4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation ¹ (Explain)
Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
Definitions of Vegetation Strata:
Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb - All herbaceous (non-woody) plants, regardless
of size, and woody plants less than 3.28 ft tall.
Woody vines - All woody vines greater than 3.28 ft in
height.
Community Type: SUCCESSIONAL Norther
Community Type: <u>Successional</u> Northern Hardwoods
Hydrophytic Vegetation
Vegetation Present? Yes No X

Depth		o the depth i		ent the indicator or	confirm the	e absence of ir	ndicators.)	
	Matrix			<u>lox Features</u> % Type ¹	Loc ²	Texture		Remarks	
nches)	Color (moist)	%	Color (moist)	<u>% Type'</u>	LUC	Texture	<u> </u>	Keniano	
9-16"	104124/2	- 100				J.L	To f	×.,1	F.II_
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		and for the second s				na ana ana ana ana ana ana ana ana ana			
								ore Lining, M=	=Matrix
	ncentration, D=Depl ndicators:	etion, RM=R	educed Matrix, CS	=Covered or Coate	a Sano Grain	sLocauc Indicators	s for Prot	olematic Hyd	Iric Soils ³ :
Histoso Histic E	ol (A1) Epipedon (A2)		Polyvalue E MLRA 149	Below Surface (S8) (B)	LRR R,	Coast	Prairie Re) (LRR K, L, M dox (A16) (LR	(R K, L, R)
Black H	listic (A3)		Thin Dark S	Surface (S9) (LRR R cky Mineral (F1) (LR) 5 cm N	/lucky Pea	t or Peat (S3) 7) (LRR K, L, I	(LRR K, L, I
Stratifie	en Sulfide (A4) ed Layers (A5)		Loamy Gle	yed Matrix (F2)	κ κ , ε	Polyva	lue Below	Surface (S8)	(LRR K, L)
Deplete Thick D	ed Below Dark Surfac Dark Surface (A12)	e (A11)	Depleted M Redox Dar	latrix (F3) k Surface (F6)		Iron-M	anganese	æ (S9) (LRR H Masses (F12)) (LRR K, L,
Sandy	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted D	ark Surface (F7) pressions (F8)		Piedm	ont Floodp Spodic (T)	olain Soils (F19 A6) (MLRA 14	9) (MLRA 14 4A, 145, 14
Sandy	Redox (S5)		Redux Dep	ressions (Fo)		Red P	arent Mate	erial (TF2)	
Strippe	d Matrix (S6) urface (S7) (LRR R, M	ILRA 149B)				Very S	(Explain in	rk Surface (TF Remarks)	- 12)
Dark Si	unabe (0) (LRR R, β	•							
Dark S									
Dark S									
Dark Sindicators of	hydrophytic vegetation		hydrology must be	present, unless distu	irbed or proble	ematic.			
Dark Sindicators of	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble	ematic.			
Dark Sindicators of	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble				
Dark Si ndicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble	ematic. Hydric Soil P	resent?	Yes	No
Dark Si ndicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be - -	present, unless distu	irbed or proble		resent?	Yes	No
Dark Si ndicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be - -	present, unless distu	Irbed or proble		resent?	Yes	No
Dark Si dicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be -	present, unless distu	irbed or proble		resent?	Yes	No
Dark Si dicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be - -	present, unless distu	irbed or proble		resent?	Yes	No
Dark Si ndicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be - -	present, unless distu	Irbed or proble		resent?	Yes	No <u>×</u>
Dark Si dicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble		resent?	Yes	No
Dark Si ndicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble		resent?	Yes	No <u>×</u>
Dark Si ndicators of sstrictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble		resent?	Yes	No
Dark Si ndicators of sstrictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble		resent?	Yes	No
Dark Sindicators of Estrictive Line Type:	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble		resent?	Yes	No <u>×</u>
Dark Si ndicators of estrictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble		resent?	Yes	No
Dark Si ndicators of sstrictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	irbed or proble		resent?	Yes	No <u>×</u>
Dark Si ndicators of estrictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	Irbed or proble		resent?	Yes	No <u>×</u>
Dark Si ndicators of strictive L Type: Depth (inc	hydrophytic vegetation ayer (if observed):		hydrology must be	present, unless distu	Irbed or proble		resent?	Yes	No

Project/Site North America Park Town/County: West Seneca/Erie CountyS	ampling Date: 10.9.2019
Applicant/Owner: Nanco Associates LLC State: New Yor	
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Townsh	ip, Range: <u>206.07-1-26.1</u>
Landform (hillslope, terrace, etc.): DEPRESSIONE coal relief (concave, con	ivex, none): Slope (%):
Subregion (LRR or MLRA)LRRL Lat:	Long: Datum: <u>NAD83</u>
Soil Map Unit Name: NIAGARA SILT LOAM, Till	Substitution NWI classification: PEM
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 Vegetation, Soil, or Hydrology naturally problematic	
SUMMARY OF FINDINGS : Attach site map showing sampling point locat	ons, transects, important features, etc.
	Is the Sampled Area
Hydrophytic Vegetation Present? Yes <u>×</u> No	within a Wetland? Yes <u>X</u> No
Hydric Soil Present? Yes <u>×</u> No	If yes, optional Wetland Site ID:Y
Wetland Hydrology Present? Yes No Remarks: (Explain alternative procedures here or in a separate report.)	4
ISOLATED WETLAND POCKET SURROUNDED BY FILL	(PHRAGMITES - MONN)
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)	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season W ater Table (C2)
Wall Deposits (B1) Hydrogen Sulfide Odor	
	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Oxidized (Mizosphere)	
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren	· · · · · · · · · · · · · · · · · · ·
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	and a m
Surface Water Present? Yes <u>×</u> No <u>×</u> Depth (inches): <u>0</u> -	<u>1 (5</u> 9 <u>4</u>)
Water Table Present? Yes 🔀 No Depth (inches): _50	Kface
	Metland Hydrology Present? Yes K. No
(includes capillary fringe)	aus insportions) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previ	Jus inspections), il available.
Remarks:	

	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30')	<u>% Cover Species? Status</u>	Number of Dominant Species That Are OBL, FACW , or FAC: (A)
2		Total Number of Dominant Species Across All Strata:(B)
k		Percent of Dominant Species That Are OBL, FACW , or FAC:(0^6/). (A/B)
5		
3 7		Prevalence Index worksheet: <u>Total % Cover of:</u> <u>Multiply by:</u>
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:15')	FACW species x 2 =
1		FAC species x 3 =
2		FACU species x 4 =
		UPL species x 5 =
3 4		Column Totals: (A) (B)
5		Prevalence Index = B/A =
5		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
	= Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: <u>5'</u>)		3 - Prevalence Index is < 3.0 ¹
1. Phangmytes australis	60 Y FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Lytham Salicaria	3 N FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3		1Indicators of hydric soil and wetland hydrology must
4	•	be present, unless disturbed or problematic.
5		Definitions of Vegetation Strata:
6 7		Tree - Woody plants 3 in. (7.6 cm) or more in diameter 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) tall.
		Herb - All herbaceous (non-woody) plants, regardless
10		of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft in
12	63 = Total Cover	height.
Woody Vine Stratum (Plot size: 30'		
1		Emer Mak
2		Community Type: Errer yert Mars L Hudrophytic (Invasives)
3		Hydrophytic (Invasives)
4		Vegetation Present? Yes <u>X</u> No
	= Total Cover	
Remarks: (Include photo numbers here or on a se	•	
Photo #	Direction of Photo North	
	PEMIB	
	vetland wy	

Depth inches) Ø-4/"	Matrix Color (moist)						e absence of indica	4013.7
0.4"	COIDI (MOIST)	%	Red Color (moist)	ox Featu %	res Type ¹	Loc ²	Texture	Remarks
0.4	~ •	-						
	104231,	95	10 725/8		<u> </u>	M	<u> </u>	
4-16	107R64	90	107183/8	10	C	<u>pha</u>	<u> 3:27</u>	
<u> </u>						<u></u> .		
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		<u> </u>			v <u> </u>			
	an y antara al'ay na bany na bany na bany na bany na harana na harana na harana na hara						an an an suite an sine (an annaise) — Antair Ar An An	
	ncentration, D=Deple	etion, RM=F	Reduced Matrix, CS=	=Covered	or Coated	Sand Grain		PL=Pore Lining, M=Matrix.
ydric Soil In	ndicators:						Indicators for	Problematic Hydric Soils ³ :
Histosol	l (A1) pipedon (A2)		Polyvalue B MLRA 1498		ace (S8) (L	LRR R,	2 cm Muck Coast Prair	(A10) (LRR K, L, MLRA 149B) ie Redox (A16) (LRR K, L, R)
Black H	istic (A3) en Sulfide (A4)			Surface (SS		MLRA 1498	5 cm Muck	y Peat or Peat (S3) (LRR K, L, ce (S7) (LRR K, L, M)
Stratifie	d Layers (A5) d Below Dark Surface	λ (Δ11)	Loamy Gley	ed Matrix	(F2)	, _/	Polyvalue E	Below Surface (S8) (LRR K, L) Surface (S9) (LRR K, L)
Thick Da	ark Surface (A12) Mucky Mineral (S1)		Redox Dark	Surface (anese Masses (F12) (LRR K, L, Toodplain Soils (F19) (MLRA 14
Sandy C	Gleyed Matrix (S4) Redox (S5)		Redox Dep				Red Paren	dic (TA6) (MLRA 144A, 145, 14 t Material (TF2)
	d Matrix (S6) urface (S7) (LRR R, M	ILRA 149B)	1				Very Shallo Other (Exp	ow Dark Surface (TF12) Iain in Remarks)
Indiactors of L	nydrophytic vegetation	an duusilan	d huddologu munt ha	nrocont u	aloog dictu	rhad or proble	amatic	
	ayer (if observed):		a nyarology musi be	present, u				
Туре:		<u> </u>						
Depth (inch	nes):/	A					Hydric Soil Prese	nt? Yes <u>></u> No
Remarks:		·····						
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	FORM - Northcentral and Northeast Region
Project/Site <u>North America Park</u> Town/County: West Seneca/Erie County	Sampling Date: 10-9.2019
Applicant/Owner: <u>Nanco Associates LLC</u> State: <u>New Yo</u>	rkSampling Point:Ŷ
Investigator(s): Scott Livingstone & Tom Somerville Section, Towns	
Landform (hillslope, terrace, etc.): DEPESSA Local relief (concave, co	-
Subracion (I PP or MLPA) DDI Late	Long: Datum: NAD83
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>NÌAGARA SILT LOAM, TÌ/</u>	Substration PEM
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 naturally problematic	? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map showing sampling point loca	tions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes <u>No</u>
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID:5
Remarks: (Explain alternative procedures here or in a separate report.)	
ISOLATED WETLAND (Phrage	mites) Surrounded by fill
AND UNDERLAIN BY Fill	
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	
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1) Hydrogen Sulfide Odd	
Sediment Deposits (B2) Oxidized Rhizospher	
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reductio	
Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Re Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes X No Depth (inches): Yes X No Depth (inches):	V l
Water Table Present? Yes X No Depth (inches): X	WWARTED
Saturation Present? Yes Y No Depth (inches): The	내신 여기간 Wetland Hydrology Present? Yes _ 火 No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	ious inspections), if available:
Remarks:	

ee Stratum (Plot size: <u>30'</u>)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet: Number of Dominant Species
		That Are OBL, FACW , or FAC: (A)
		Total Number of Dominant((B)
		Percent of Dominant Species That Are OBL, FACW , or FAC: /////
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
apling/Shrub Stratum (Plot size: 15'		FACW species x 2 =
		FAC species x 3 =
		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
	= Total Cover	$_$ 3 - Prevalence Index is < 3.0 ¹
<u>erb Stratum</u> (Plot size: <u>5'</u>) <u>Phragmiles Qus tralis</u>	90 Y FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Lythin salicaria		Problematic Hydrophytic Vegetation ¹ (Explain)
Euthania gmmmifalla		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.
0		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1 2		Woody vines - All woody vines greater than 3.28 ft in
	97 = Total Cover	height.
Voody Vine Stratum (Plot size: <u>30'</u>)		
·		Community Type: Energient Marsh
·		Community Type: Energent Mursh Hydrophytic (Invasives)
•		Hydrophytic CLANASIVES
		Present? Yes <u>X</u> No
emarks: (Include photo numbers here or on a separate	= Total Cover	
	ction of Photo	
	wetland ws	

DIL	1								Sampling P	point: D9
rofile Desc	ription: (Describe	to the dept	h needed to docume	nt the inc	licator or	confirm ti	ne absence of	indicators	.)	
Depth	Matrix			ox Featu						
inches)	Color (moist)	%	Color (moist)	%	Type	Loc ²	Texture		Reman	<u>(s</u>
	_									
2-2	10YR 31,	93	104R 518	7	Ć	M	<u></u>			
				·		·	0 ⁻ L ²			
								·····		
		-								
			······································			. <u></u>				
							<u></u>			
	ter i alteri i directo di fasto di una di constructo di competenza di constructo di construccio di construccio						- and and and the starting age is the system if which			
vpe: C=C	oncentration, D=Der	etion. RM=	Reduced Matrix, CS=	Covered	or Coated	d Sand Gra			ore Lining, I	
dric Soil	Indicators:						Indicato	rs for Pro	blematic H	ydric Soils³:
Liston	al (Ad)		Debuselus Br	olou Curf	aaa (SP) (i		2 cm	Muck (A10		MLRA 149B)
	ol (A1) Epipedon (A2)		Polyvalue Be MLRA 149B	3)			Coas	t Prairie Re	dox (A16) (i	.RR K, L, R)
Black	Histic (A3)		Thin Dark St	urface (SS) (LRR R	, MLRA 149	B)5 cm Dork	Mucky Pea	it or Peat (S: 7) (LRR K, L	3) (LRR K, L, R M)
	gen Sulfide (A4) ied Layers (A5)		Loamy Muck			κ κ, L)	Dark	value Below	Surface (St	B) (LRR K, L)
Deple	ted Below Dark Surfa	ce (A11)	X Depleted Ma	atrix (F3)			Thin	Dark Surfac	ce (S9) (LRF	R K, L) 12) (LRR K, L, I
	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark				Piedr	nont Flood	olain Soils (F	-19) (MLRA 14
Sandy	Gleyed Matrix (S4)		Redox Depr	essions (I	-8)		Mesi	c Spodic (T	A6) (MLRA	144A, 145, 149
	/ Redox (S5) ed Matrix (S6)						Red	Parent Mate Shallow Da	erial (1+2) ark Surface (TF12)
Dark S	Surface (S7) (LRR R,	MLRA 1498	3)				Othe	r (Explain ir	n Remarks)	,
indicators o	f hydrophytic vegetatio	on and wetla	and hydrology must be p	present, u	nless distu	rbed or prob	ematic.			
	Layer (if observed):									
Туре:	CED 1	MATZ	ERIAL							
Depth (in	ches): 2''						Hydric Soil	Present?	Yes	No 🚣
emarks:							1			- <u>-</u>

Project/Site North America Park Town/County: West Seneca/Erie Count	tySampling Date:10.9.2019
	New York Sampling Point: <u>D/a</u>
Investigator(s): Scott Livingstone & Tom Somerville Section,	
Landform (hillslope, terrace, etc.): $\underline{\cancel{Fill}PAD}$ Local relief (cond	
Subregion (LRR or MLRA) LRRL Lat:	Long: Datum: NAD83
Soil Map Unit Name: NIABARA SILT LOAM	
Are climatic / hydrologic conditions on the site typical for this time of year	
Are Vegetation, Soil, or Hydrology significantly dist	turbed? Are "Normal Circumstances" present? Yes <u>y</u> No
Are Vegetation, Soil, or Hydrology naturally prob	plematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map showing sampling poi	nt locations, transects, important features, etc.
Undersphytic Vagetation Draggeta	Is the Sampled Area
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X	within a Wetland? Yes No _>
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report	
UPLAND GROUPING OF C AREA	OTTENNOGS ON OUS FILL
LHYDROLOGY	
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	
Saturation (A3) Marl Deposits	(B15) Dry-Season W ater Table (C2)
Water Marks (B1) Hydrogen Sulfi	
	ospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	educed iron (C4) Stunted or Stressed Plants (D1)
—	eduction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Sur	
Inundation Visible on Aerial Imagery (B7) Other (Explain	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No X Depth (inches)	NIA
Water Table Present? Yes No X Depth (inches)	
Surface Water Present? Yes No Depth (inches) Water Table Present? Yes No Depth (inches) Saturation Present? Yes No Depth (inches) Saturation Present? Yes No Depth (inches)	: <u>MIA</u> Wetland Hydrology Present? Yes No <u>×</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photo	is, previous inspections), if available:
Remarks:	

Project	Code:	W11I18a
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VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: 30')	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
1. Populus de Itoides	60 Y FAC	Number of Dominant Species That Are OBL, FACW , or FAC: (A)
2		Total Number of Dominant Species Across All Strata: (B)
4		Percent of Dominant Species That Are OBL, FACW , or FAC: <u>50</u> ず。 (A/B)
5 6		
7		Prevalence Index worksheet: Total % Cover of: Multiply by:
	= Total Cover	OBL species Q x 1 = Q
Sapling/Shrub Stratum (Plot size:15')	•	FACW species $3 \times 2 = 6$
1. Lonicera tatarica	15 Y FACU	FAC species $\frac{85}{26}$ x 3 = $\frac{255}{344}$
2. Populus del toides	12 Y FAC	
3. Ornus Pacemusa	5 N FAC	UPL species $15 \times 5 = 75$ Column Totals: $129 \times (A) \times 5 = 60$ (B)
4 5		Prevalence Index = B/A = 3.597
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
	32 = Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: <u>5'</u>)		3 - Prevalence Index is < 3.0 ¹
1. Corsienne arvense	17 Y FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Solidano ranadensis	16 N FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Centavrea Stoebe	15 N UPL	Letter the official and watered budgelery must
4. Rosa multiflora	10 N FACU	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
5. Solidayo juncea	10 N FACU	Definitions of Vegetation Strata:
6. Euthania gammifolia	8 M Fre	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Taraxacum officinale	7 N FACU	at breast height (DBH), regardless of height.
8. Fragaria utripiniana	5 in Frier	Sapling/shrub - Woody plants less than 3 in. DBH
9. Ayrimonia grypose pola	4 N FACU	and greater than 3.28 ft (1 m) tall.
10. <u>Phragmitter</u> austrilis 11. <u>Galium</u> mollugo	$\frac{3}{2} \frac{N}{N} \frac{FACW}{FACU}$	Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12		Woody vines - All woody vines greater than 3.28 ft in height.
	$\underline{-70}$ = lotal Cover	
Woody Vine Stratum (Plot size:) 1.)		
2		Community Type: Svelessioned Northart Hydrophytic Hard woods Hydrophytic Yes Present? Yes
3		Hydrophytic Hardwoods
4		Vegetation
	= Total Cover	Presentr res No
Remarks: (Include photo numbers here or on a separate		
Photo # Direct	tion of Photo North	
	·	
L		

DIL					Sampling Point:
Profile Desc	ription: (Describe to	the depth r	needed to document the indicator or confirm	the absence of i	ndicators.)
Depth	Matrix		Redox Features		·
inches)	Color (moist)	%	Color (moist) % Type ¹ Loc ²	Texture	Remarks
	· · · · · · · ·			AP .	
2-16	104×1/3	100		5,2	FAI
<u>`````</u>	<u></u>				
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·····					
				· · · · · · · · · · · · · · · · · · ·	
		<u> </u>			
ype: C=Co	oncentration, D=Deple	etion. RM=Re	educed Matrix, CS=Covered or Coated Sand G	rains. ² Location	on: PL=Pore Lining, M=Matrix.
	Indicators:				s for Problematic Hydric Soils ³ :
Histos			Polyvalue Below Surface (S8) (LRR R,	2 cm M	Auck (A10) (LRR K, L, MLRA 149B)
	Epipedon (A2) Histic (A3)		MLRA 149B) Thin Dark Surface (S9) (LRR R, MLRA 14	(OB) Coast	Prairie Redox (A16) (LRR K, L, R) Aucky Peat or Peat (S3) (LRR K, L, R)
Hvdrod	gen Sulfide (A4)		Loamy Mucky Mineral (F1) (LRR K, L)	Dark S	Surface (S7) (LRR K, L, M)
Stratifi	ed Layers (A5)		Loamy Gleyed Matrix (F2)	Polyva	lue Below Surface (S8) (LRR K, L)
Deplet	ed Below Dark Surface	e (A11)	Depleted Matrix (F3)	Thin D	ark Surface (S9) (LRR K, L)
I NICK I Sandy	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark Surface (F6) Depleted Dark Surface (F7)	Iron-W Piedm	anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 1498
Sandy	Gleyed Matrix (S4)		Redox Depressions (F8)	Mesic	Spodic (TA6) (MLRA 144A, 145, 149B
Sandy	Redox (S5)			Red P	arent Material (TF2)
Strippe	ed Matrix (S6) Surface (S7) (LRR R, N			Very S	Shallow Dark Surface (TF12) (Explain in Remarks)
Daik c		ILKA 149D)			
ndicators of	hydrophytic vegetation	and wetland	hydrology must be present, unless disturbed or pr	oblematic.	
	aver (if observed):				
Type:	NON	france .			
	x	<u></u>			resent? Yes No 🔽
Depth (inc	ches):///	<u> </u>	-	Hydric Soil P	resent? Yes No 🗡
emarks:	· · · · · · · · · · · · · · · · · · ·				

Project/Site <u>North America Park</u> Town/Co	unty: West Seneca/Erie County	Sampling Date:/0	.9.2019	
Applicant/Owner: <u>Nanco Associates LLC</u>	State: New Y	<u>′ork</u>	Sampling Point:/	
Investigator(s): <u>Scott Livingstone & Tom</u>		ship, Range: 206.07-1-26.	1	_
Landform (hillslope, terrace, etc.):	PAD Local relief (concave,	convex. none); CONI	/ E >> Slope (%):	7.
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>NTALARA</u>	LAT LOAN Till	Kuhstratura NIA		10.200
	-			N ^P 7
Are climatic / hydrologic conditions on the				
Are Vegetation, Soil, or Hyc	Irology significantly disturbed	? Are "Norm	al Circumstances" present?	Yes <u>×</u> No
Are Vegetation, Soil, or Hy	drology naturally problemat	tic? (If needed, explain any	answers in Remarks.)	
SUMMARY OF FINDINGS : Attach site	map showing sampling point loc	ations, transects, importa	<u>nt features, etc.</u>	
 Hydrophytic Vegetation Present?		Is the Sampled Area		
Hydric Soil Present?	Yes No Yes No	within a Wetland?	Yes No 🖄	۲
Wetland Hydrology Present?			Site ID:	
Remarks: (Explain alternative procedure	Yes No	Tryes, optional vietiand c		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (mini	mum of two required)
Primary Indicators (minimum of one is re	equired: check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leave		Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)		Dry-Season W ater Table	(C2)
Water Marks (B1)	Hydrogen Sulfide Oc		Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizosphe	eres on Living Roots (C3)	Saturation Visible on Aei	rial Imagery (C9)
Drift Deposits (B3)	Presence of Reduce		Stunted or Stressed Plan	ts (D1)
Algal Mat or Crust (B4)	Recent Iron Reducti	on in Tilled Soils (C6)	Geomorphic Position (D2	.)
Iron Deposits (B5)	Thin Muck Surface (Shallow Aquitard (D3)	<u> </u>
Inundation Visible on Aerial Image		emarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surf	ace (B8)		FAC-Neutral Test (D5)	
Field Observations:		(10		
Surface Water Present? Yes	No X Depth (inches):	S/A		
Water Table Present? Yes Saturation Present? Yes	No 🗡 Depth (inches): 🤳	ALLA Motland L	ydrology Present? Yes	No 🛰
(includes capillary fringe)	No 🥍 Depth (inches):		yulology Present: 165	
Describe Recorded Data (stream gauge	, monitoring well, aerial photos, pre	vious inspections), if availab	Je:	
Remarks:			······	
Temans.				
×				

	Absolute Dominant Indicator	Deminence Test workshoet
ree Stratum (Plot size: <u>30'</u>)	<u>% Cover Species? Status</u>	Dominance Test worksheet:
		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
		Total Number of Dominant 2 (B
		Species Across All Strata: (B
		Percent of Dominant Species
		That Are OBL, FACW, or FAC: (A/I
		Prevalence Index worksheet:
		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
pling/Shrub Stratum (Plot size: 15')	FACW species x 2 =
		FAC species x 3 =
· · · · · · · · · · · · · · · · · · ·		FACU species x 4 =
		UPL species x 5 =
		Column Totals: (A) (B
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
		2 - Dominance Test is >50%
	= Total Cover	3 - Prevalence Index is < 3.0 ¹
rb Stratum (Plot size: <u>5'</u>)	_	4 - Morphological Adaptations ¹ (Provide supporti
Centauren Stoebe	<u>35 Y UPL</u>	data in Remarks or on a separate sheet)
Planting o mojor	19 Y FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Divers carota		
	_	1Indicators of hydric soil and wetland hydrology mus
Fostuca spp.	<u>3</u> N NE	be present, unless disturbed or problematic.
	2 N MCU	Definitions of Vegetation Strata:
Curex acacillima	2 N FACU	
Symphystrichum exil sides	2 N FACU	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
	I N FACU	
Digitaria Sanguinalis		Sapling/shrub - Woody plants less than 3 in. DBH
		and greater than 3.28 ft (1 m) tall.
)		Herb - All herbaceous (non-woody) plants, regardles
		of size, and woody plants less than 3.28 ft tall.
		Woody vines - All woody vines greater than 3.28 ft i
		height.
	<u>67</u> = Total Cover	
oody Vine Stratum (Plot size: <u>30'</u>)	
		Community Type: SULCESS Dral dd Fr
· · · · · · · · · · · · · · · · · · ·		Hydrophytic Vegetation
		Present? Yes No X
	= Total Cover	
emarks: (Include photo numbers here or on a sepa	rate sheet.)	
Photo # P12 Di	rection of Photo Nor theast	
	rection of Flioto 1001 with 24	

Profile Deer		-					Sampling	Point.
	ription: (Describe to	o the depth			or confirm	the absence of inc	licators.)	
Depth inches)	Matrix Color (moist)	%	Color (moist)	x Features % Typ	e ¹ Loc ²	Texture	Rema	rks
			<u> </u>					
M-6	10424/2	100				Vars:1	= 11	
	· ve ile	100	······································			- grana -	····	
2-16	10YR 4/2	70	= m.xad			<u> </u>	F,//	
	1098314	<u> </u>) /					
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	·····	- <u></u> -			<u> </u>			
vpe: C=C	oncentration, D=Depl	etion. RM=F	Reduced Matrix. CS=0	Covered or Coa	ited Sand Gr	rains. ² Location	: PL=Pore Lining,	M=Matrix.
	Indicators:						for Problematic H	
Histos	ol (A1)		Polyvalue Be	low Surface (St		2 cm Mi	ıck (A10) (L RR K, L	MLRA 149B)
Histic	Epipedon (A2)		MLRA 149B)			Coast P	rairie Redox (A16) (LRR K, L, R)
	Histic (A3) gen Sulfide (A4)		Loamy Muck	rface (S9) (LRF y Mineral (F1) (: R, MLRA 14 .RR K, L)	Dark Su	icky Peat or Peat (S rface (S7) (LRR K, I	L, M)
Stratifi	ed Layers (A5) ted Below Dark Surfac	0 (011)	Loamy Gleye	d Matrix (F2)		Polyvalı	e Below Surface (S	8) (LRR K, L)
				triv (E3)		l hin i ja		R K. I.)
Thick	Dark Surface (A12)	e (A11)	Redox Dark	Surface (F6)		Iron-Mai	rk Surface (S9) (LRI nganese Masses (F	12) (LRR K, L, R
Thick Sandy	Dark Surface (A12) Mucky Mineral (S1)	e (A11)	Redox Dark	Surface (F6) k Surface (F7)		Iron-Mai Piedmoi Mesic S	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA	12) (LRR K, L, R F19) (MLRA 149
Thick Sandy Sandy Sandy	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5)		Redox Dark Depleted Dar	Surface (F6) k Surface (F7)		Iron-Mai Piedmon Mesic S Red Par	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E
Thick Sandy Sandy Sandy Stripp	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4)		Contract Redox Dark 5 Contract Depleted Dar Contract Redox Depre	Surface (F6) k Surface (F7)		Iron-Mai Piedmon Mesic S Red Par Very Sh	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E
Thick Sandy Sandy Sandy Stripp	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6)		Contract Redox Dark 5 Contract Depleted Dar Contract Redox Depre	Surface (F6) k Surface (F7)		Iron-Mai Piedmon Mesic S Red Par Very Sh	nganese Masses (F ht Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E
Thick Sandy Sandy Sandy Stripp Dark S	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M	VILRA 149B)	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)		Iron-Mai Piedmor Mesic S Red Par Very Sh Other (E	nganese Masses (F ht Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E
Indicators of	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M	VILRA 149B)	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Iron-Mai Piedmor Mesic S Red Par Very Sh Other (E	nganese Masses (F ht Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E
Indicators of estrictive I	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Iron-Mai Piedmor Mesic S Red Par Very Sh Other (E	nganese Masses (F ht Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E
Indicators of Type:	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Strippe Dark S ndicators of estrictive I Type: Depth (inc	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F ht Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Strippe Dark S ndicators of estrictive I Type: Depth (inc	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Strippe Dark S ndicators of estrictive I Type: Depth (inc	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Sny Dark	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Sny Dark	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149 (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Sny Dark	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Sandy Dark S ndicators of strictive I Type: Depth (inc	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149 (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Strippe Dark S ndicators of estrictive I Type: Depth (inc	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149 (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Sny Dark	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149 (TF12)
Thick Sandy Sandy Stripp Dark S Indicators of estrictive I	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E (TF12)
Indicators of Type: Depth (indicators)	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149E (TF12)
Indicators of estrictive I Depth (indicators)	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149 (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Strippe Dark S	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, R F19) (MLRA 149 144A, 145, 149 (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Strippe Dark S ndicators of estrictive I Type: Depth (inc	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, F F19) (MLRA 149 144A, 145, 149 (TF12)
Thick Sandy Sandy Sandy Sandy Sandy Sandy Dark S ndicators of strictive I Type: Depth (inc	Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, M f hydrophytic vegetation Layer (if observed):	VILRA 149B) n and wetlan	Redox Dark { Depleted Dar Redox Depre	Surface (F6) k Surface (F7) ssions (F8)	sturbed or pro	Uron-Mai Piedmou Mesic S Red Par Very Sh Other (E	nganese Masses (F nt Floodplain Soils (I podic (TA6) (MLRA ent Material (TF2) allow Dark Surface xplain in Remarks)	12) (LRR K, L, F F19) (MLRA 149 144A, 145, 149 (TF12)

Project/Site North America Park Town/Count	v: West Seneca/Erie County	ampling Date:	10.9.2019	
Applicant/Owner: <u>Nanco Associates LLC</u>			Sampling Point: <u>D12</u>	
Investigator(s): Scott Livingstone & Tom Sor		 hip. Range: 206.07-1-26.		
Landform (hillslope, terrace, etc.): Fill (14			
Subregion (LRR or MLRA) <u>LRRL</u> Lat:			Datum: <u>NAD83</u>	
Soil Map Unit Name: <u>CAYUGA</u>				
	ţ.	*		
Are climatic / hydrologic conditions on the site				
Are Vegetation, Soil, or Hydrold	ogy significantly disturbed?	Are "Norm	al Circumstances" present? Yes 🗻	1 No
Are Vegetation, Soil, or Hydro	logy naturally problematic	? (If needed, explain any	answers in Remarks.)	
SUMMARY OF FINDINGS : Attach site ma	p showing sampling point locat	ions, transects, importa	nt features, etc.	1
Hydrophytic Vegetation Present?	res 🗶 No	Is the Sampled Area	* /	
	res No	within a Wetland?	Yes No	
Wetland Hydrology Present?	res No	If yes, optional Wetland S	Site ID: UB	
Remarks: (Explain alternative procedures h	iere or in a separate report.)			40
JSOLATED SHRU				
LHYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (minimum of	two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks (B6)	
Surface Water (A1)	X Water-Stained Leaves	(B9)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)	
Z Saturation (A3)	Marl Deposits (B15)		Dry-Season W ater Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor		Crayfish Burrows (C8)	
Sediment Deposits (B2)		s on Living Roots (C3)	Saturation Visible on Aerial Imag	jery (C9)
Drift Deposits (B3)	Presence of Reduced		Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction		Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C)	, .	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (Sparsely Vegetated Concave Surface		idiks)	Microtopographic Relief (D4) FAC-Neutral Test (D5)	
Field Observations:	(56)			
	No Depth (inches):	la		
Water Table Present? Yes	No X Depth (inches): No	10		
Saturation Present? Yes	No <u>×</u> Depth (inches): <u>N</u> . No <u>Depth (inches): <u>5</u>.</u>	A Contract Wetland Hy	ydrology Present? Yes 📈 N	No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previo	ous inspections), if availab	ole:	
Remarks:				

I

Project Code: \	W1	111	8a
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/EGETATION : Use scientific names of plants.		Sampling Point: DI2
Tara Obstatum (Distatum 20)	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>) 1. <u>lopulus</u> <u>deltoides</u>	<u>% Cover Species? Status</u>	Number of Dominant Species That Are OBL, FACW , or FAC: (A)
2		Total Number of Dominant Species Across All Strata:3 (B)
4		Percent of Dominant Species That Are OBL, FACW , or FAC: _/@//. (A/B)
6		Prevalence Index worksheet:
7	<i>a</i>	Total % Cover of: Multiply by:
Opering (Ober & Obertung (Obertuit)	= Total Cover	OBL species x 1 = FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15'		FAC species x 3 =
1. Satix discolor 2. Satix Scrilea		FACU species x 4 =
^	5 N FRW	UPL species x 5 =
A		Column Totals: (A) (B)
4. <u>(Br NJS Face Musc</u> 5	<u>3</u> N FAC	Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
···		★ 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')		3 - Prevalence Index is < 3.0 ¹
1. Lytham Salkaria	<u> </u>	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Phingmiles australis	2 N FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Ono élea Sensibilis	N FACUS	Indicators of hydric soil and wetland hydrology must
4. Agrimonia cirypose pala	I N FACU	be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
6		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9 10		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		
12	= Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:30')		
1		Community Type: Scrub. Sharb
2		PSS 2B
3		nyarophyuc
4		Vegetation Present? Yes <u>X</u> No
	= Total Cover	L
Remarks: (Include photo numbers here or on a separate Photo #	e sheet.) ction of Photo_ <u>Nor+h</u>	
	e	Λ
	fecently Brush-hu	igged
	recent 17 Dissu	**
	Wetland wb	

SOIL

Sampling Point: 012

Matrix Redox Features color (moist) % Type ¹ Loc ² Texture Remarks 2 - 16 10 YK 3/1 92 10 YK 3/1 92 5/K
2-16 104K 3/1, 98 104K 3/1, 98 104K 3/1, 98
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix, Indicators for Problematic Hydric Soils? yrdric Soil Indicators: Indicators for Problematic Hydric Soils? Histosol (A1) Polyvalue Below Surface (S3) (LRR R, MLRA 149B) Black Histic (A3) MLRA 149B) Histosol Suffice (A4) Loarny Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Stratified Layers (A5) Depleted Matrix (F3) Bask Histora (K15) Depleted Matrix (F3) Stratified Layers (A5) Depleted Matrix (F3) Bash Kistrace (S5) (LRR K, L, MIRA 149B) Thin Dark Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Depleted Matrix (S4) Redox Depressions (F8) Sandy Medox (S6) Redox Depressions (F8) Matrix (S6) Warrae (S7) (LRR R, MIRA 149B) Dark Surface (S7) (LRR R, MIRA 149B) Other (Explain in Remarks) Matrix (S6) Hydric Soil Present? Yes X No_
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ydric Soil Indicators: Indicators for Problematic Hydric Soils ³ : Histosol (A1) Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2) 2 cm Muck (A10) (LRR K, L, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Stratified Jelow Dark Surface (A12) Redox Dark Surface (F6) Piotyvalue Below Sorface (S9) (MLRA 144A, 145, 14 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 14 Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Other (Explain in Remarks) Introcessor MURA Multicators (Yes
Histosol (A1) Histosol (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Dark Surface (F6) Sandy Mucky Mineral (S1) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) MLRA 149B) Thick Dark Surface (S7) (LRR K, L, M) Hydric Soil Present? Yes X No
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, M) Hydrogen Sulfide Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, M) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14 Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144A, 145, 144A, 145, 142, 142, 142, 142, 145, 144A, 145, 14A, 145, 144A, 145,
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, M) Hydrogen Sulfide Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Polyvalue Below Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, M) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14 Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144A, 145, 144A, 145, 142, 142, 142, 142, 145, 144A, 145, 14A, 145, 144A, 145,
Black Histic (A3)
Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Kedox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, M) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 144 Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 144 Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Hydric Soil Present? Yes X No Type:
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)
Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)
Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: Algain Depth (inches):/A Hydric Soil Present? Yes X No
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:AloAE Depth (inches):AloAE Hydric Soil Present? Yes X No
estrictive Layer (if observed): Type:
Type:
Depth (inches): Hydric Soil Present? Yes X No
emarks:

Project/Site North America Park T	own/County: West Seneca/F	Erie County Sampling D	ate: 10.9.2019	
Applicant/Owner: Nanco Associa	ites LLC	State: New York	Sampling Point:	013
Investigator(s): Scott Livingstone				
Landform (hillslope, terrace, etc.):	RID/E Local	lief (concave, convex, non	CONVEX Slone	A (%):
Subregion (LRR or MLRA) <u>LRRL</u> Soil Map Unit Name: <u>NTA</u>	Lat:	Long:	helphan	Dalum. <u>NADos</u>
		,		
Are climatic / hydrologic conditions				
Are Vegetation, Soil	, or Hydrology signific	cantly disturbed?	Are "Normal Circumstances"	present? Yes 🔀 No
Are Vegetation, Soil	_, or Hydrology natu	Irally problematic? (If need	ed, explain any answers in Remark	(S.)
SUMMARY OF FINDINGS : Atta	ch site map showing sam	pling point locations, tran	sects, important features, etc.	
Hydrophytic Vegetation Present		V Is the Sa	npled Area	
Hydric Soil Present?	? Yes No Yes No		Vetland? Yes	No <u>×</u>
Wetland Hydrology Present?	Yes No		ional Wetland Site ID:	AN AN
Remarks: (Explain alternative p		II yes, op ate report.)		
UPLAND E				
HYDROLOGY				
Wetland Hydrology Indicators	:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of o	one is required; check all that	it apply)	Surface Soil Cr	acks (B6)
Surface Water (A1)	Wate	r-Stained Leaves (B9)	Drainage Patte	rns (B10)
High Water Table (A2)	Aquat	tic Fauna (B13)	Moss Trim Line	es (B16)
Saturation (A3)		Deposits (B15)	Dry-Season W	
Water Marks (B1)		ogen Sulfide Odor (C1)	Crayfish Burro	
Sediment Deposits (B2)		zed Rhizospheres on Living		ble on Aerial Imagery (C9)
Drift Deposits (B3)		ence of Reduced Iron (C4)		ssed Plants (D1)
Algal Mat or Crust (B4) Iron Deposits (B5)		nt Iron Reduction in Tilled S Muck Surface (C7)		
Inundation Visible on Aeria		Shallow Aquita Microtopograp		
Sparsely Vegetated Concar		r (Explain in Remarks)	FAC-Neutral T	
Field Observations:				
	Yes No 🗡 Depth	(inches): ()/A		
Water Table Present?	Yes No <u>/</u> Depth	n (inches): NIA		
	Yes No X Depth		Wetland Hydrology Present?	Yes No 🔀
(includes capillary fringe)				
Describe Recorded Data (stream	i gauge, monitoring well, ae	rial photos, previous inspec	tions), if available:	
Remarks:	weese,			

Tree Stratum (Distaire: 20)	Absolute Dominant Indicator <u>% Cover Species? Status</u>	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>) 1		Number of Dominant Species D (A)
2		
3		Total Number of Dominant Species Across All Strata:
4		Percent of Dominant Species
5		That Are OBL, FACW , or FAC: (A/B)
6		Dravalance Index werkehoods
		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 = FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15'		FAC species x 3 =
1. Lonicera feterra		FACU species x 4 =
2. Rhamnus Cathartiza	10 N FARL	UPL species x 5 =
3		Column Totals: (A) (B)
4		
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
	<u>55</u> = Total Cover	2 - Dominance Test is >50%
		$_$ 3 - Prevalence Index is < 3.0 ¹
Herb Stratum (Plot size: 5'))	3 N FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Taraxozum offizinale	2 N FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3		
		Indicators of hydric soil and wetland hydrology must
4 5		be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
6		Tree - Woody plants 3 in. (7.6 cm) or more in diameter 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) tall.
		Herb - All herbaceous (non-woody) plants, regardless
10		of size, and woody plants less than 3.28 ft tall.
11		Woody vines - All woody vines greater than 3.28 ft in
12		height.
	<u> </u>	
Woody Vine Stratum (Plot size: <u>30'</u>)		
1. Vitis aestivatis	10 y FAQ	Quili de la 1
2		Community Type: Brushy Clearel Land
3		Hydrophytic
4		Vegetation Present? Yes No
	D = Total Cover	
Remarks: (Include photo numbers here or on a separate		
	tion of Photo East	
	. 1	
	Recently Brush-hi	>na+d
	· · · · · ·	·

Absolute Dominant Indicator

VEGETATION : Use scientific names of plants.

Sampling Point: <u>]]3</u>

0epth nches) 0~12	tion: (Describe to <u>Matrix</u> Color (moist) $10 \ \gamma R \ 1/2$ $10 \ \gamma R \ 5/4$	%		ox Features	r confirm t	he absence of i	ndicators.)		
nches) 3-12	Color (moist)								
		126		% Type ¹	Loc ²	 Texture		Remarks	
		100			· · ·				
<u>12-16 _</u>	10 485/4					5,0			
		100				5.2			
				<u></u>	_ <u>., </u>				<u></u>
		an a							

						<u> </u>			
····					•			ana isi di Mana	
		and no acting supported and				u anu unana una mana any any any any any any any any any	and any sign of the second as a sum of the second second		n ann an san an san an san ag a' bha a' a gann agus ann an s
ype: C=Conc dric Soil Ind	entration, D=Deple licators:	tion, RM=Re	educed Matrix, CS=	Covered or Coate	d Sand Gra		on: PL=Pore		
Black Hist Hydrogen Stratified I Depleted Thick Dari Sandy Mu Sandy Gla Sandy Re Stripped M	pedon (A2) tic (A3) I Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) Joky Mineral (S1) eyed Matrix (S4)		MLRA 1498 Thin Dark St Loamy Muck Loamy Gley Depleted Ma Redox Dark Depleted Da	urface (S9) (LRR F <y (f1)="" (lr<br="" mineral="">ed Matrix (F2)</y>	, MLRA 149	B) 5 cm M 5 cm M Dark 5 Polyva Thin D Iron-M Iron-M Nesic Red P Very 5	Muck (A10) (I Prairie Redo Mucky Peat o Surface (S7) f alue Below Si Dark Surface fanganese M sont Floodpla Spodic (TA6 arent Materia Shallow Dark (Explain in R	x (A16) (LRF r Peat (S3) (I (LRR K, L, M urface (S8) (I (S9) (LRR K, asses (F12) in Soils (F19)) (MLRA 144 al (TF2) Surface (TF ²)	₹ K, L, R) LRR K, L, R) LRR K, L) (LRR K, L, F) (MLRA 149 A, 145, 149
dicators of by	drophytic vegetation	and wetland	hydrology must be c	present, unless dist	urbed or prob	lematic.			
	er (if observed):								
Туре:	NONE					Hydric Soil P	Procont?	/oc	No 🔪
Depth (inches marks:	s):					Tryunc Son P			

Project/Site North America Park Town/County: We	st Seneca/Erie County S	ampling Date:	10,9,2019
Applicant/Owner: <u>Nanco Associates LLC</u>			Sampling Point:/4
Investigator(s): Scott Livingstone & Tom Somenvill	e Section Towns	hin Range: 206.07-1-26	1
Landform (hillslope, terrace, etc.):	ed Local rolief (concave, co	nyev none): NOA	Slone (%):
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>CAYUGA</u> SILT	- 1. AAA 23 C	Long:	Datum: <u>NAD83</u>
	,		
Are climatic / hydrologic conditions on the site typic			
Are Vegetation, Soil, or Hydrology	significantly disturbed?	Are "Norm	al Circumstances" present? Yes 🚬 No
Are Vegetation, Soil, or Hydrology _	naturally problematic	? (If needed, explain any	answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map sho	wing sampling point locat	ions, transects, importa	nt features, etc.
Hydrophytic Vegetation Present? Yes	X No	Is the Sampled Area	
	× No	within a Wetland?	Yes No
	× No	If yes, optional Wetland S	Site ID: W7
Remarks: (Explain alternative procedures here o		a yes, optional violand e	
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; c	heck all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	X Water-Stained Leaves	(B9)	Drainage Patterns (B10)
K High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)
X Saturation (A3)	Marl Deposits (B15)	-	Dry-Season W ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odo	r (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)		s on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction		Geomorphic Position (D2)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C Other (Explain in Ren		Shallow Aquitard (D3) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		nano,	FAC-Neutral Test (D5)
Field Observations:			
	C Depth (inches):	IA	
Water Table Present? Yes X No	Depth (inches): $\underline{\leq} u$	149 ce	
Saturation Present? Yes <u>Yes</u> No _	Depth (inches):		ydrology Present? Yes 📈 No
Describe Recorded Data (stream gauge, monitori	ng well, aerial photos, previ	ous inspections), if availab	le:
Remarks:		· · · · · · · · · · · · · · · · · · ·	
Remarks.			

Project Code: W11I18a	118a
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VEGETATION : Use scientific names of plants.		Sampling Point:
	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>) 1. Fraxinus pennsyluanica	<u>% Cover Species? Status</u> 7 Y MCW	Number of Dominant Species That Are OBL, FACW , or FAC: (A)
2		Total Number of Dominant Species Across All Strata:5(B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
5		
7		Prevalence Index worksheet:
	7 = Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:15')	<u></u>	FACW species x 2 =
1. Cornus amomum	30 Y FACU	FAC species x 3 =
2 Glix discolor	15 Y FRW	FACU species x 4 =
frank and	in N and	UPL species x 5 =
	5 N FAC	Column Totals: (A) (B)
4. <u>Frangula alnus</u>		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		X 1 - Rapid Test for Hydrophytic Vegetation
···	60 = Total Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5',)	= 10tar 00vcr	3 - Prevalence Index is < 3.0 ¹
1. Agrostis stalonifera	18 Y FACW	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
	10 Y FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Solidayo giyanta	8 N FACW	Indicators of hydric soil and wetland hydrology must
4. Juncis effusus	UBL	be present, unless disturbed or problematic.
5. Symphystrichum lateriflorm	<u>6</u> <u>(1) 600</u>	Definitions of Vegetation Strata:
6 7		Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8 9		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 tall.
12		Woody vines - All woody vines greater than 3.28 ft in
	45 = Total Cover	height.
Woody Vine Stratum (Plot size: <u>30'</u>)		
1		Community Type: <u>SCNb- Shrub</u>
2		DRAR
3		Hydrophytic (J) + (J)
4		Present? Yes No
	= Total Cover	
Remarks: (Include photo numbers here or on a separate sl Photo # Direction	neet.)	
	Zecantly Brish-hugg	cl
	Wetland W7	

514 Sampling Point:

Depth Matrix Redox Features Inches) Color (moist) % Type' Loc' Texture Re Q - 1/6 10 YR.41/1 9.5 IO YR.51/8 5 C M 5/4 Q - 1/6 10 YR.41/1 9.5 IO YR.51/8 5 C M 5/4 Q - 1/6 10 YR.41/1 9.5 IO YR.51/8 5 C M 5/4 Q - 1/6 10 YR.41/1 9.5 IO YR.51/8 5 C M 5/4 Q - 1/6 10 YR.41/1 9.5 IO YR.51/8 C M 5/4 Q - 1/6 10 YR.41/1 9.5 IO YR.51/8 C M 5/4 Q - 1/6 10 YR.51/8 2 M S/4 Intervention Intervention <td< th=""><th>tic Hydric Soils³: K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)</th></td<>	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
wrpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin wrpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin wrpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin wrpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin wrpe: C=Cast Prairie Reduced Matrix (S4) MLRA 149B) Coast Prairie Redox (A1 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A1 Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Matrix (F2) Polyvalue Below Surface (S7) Depleted Below Dark Surface (A12) K Redox Dark Surface (F6) Trin: Dark Surface (S7) Thin Dark Surface (S7) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Inor-Marganese Massee Sandy Gleyed Matrix (S4) Redox Depressions (F8) Meets: Spodic (TA6) (ML Sandy Gleyed Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remart Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remart Other (Explain in Remart	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
//pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin //pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin //pe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin //provide: Coast Praine Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin // Histic E/pipedon (A2) MLRA 149B) Coast Praine Redox (A1 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Praine Redox (A1 Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Matrix (F2) Depleted Solid C(S7) (LRR Polyvalue Below Surface (S9) Sandy Mucky Mineral (S1) Depleted Dark Surface (F6) Iron-Marganese Massee Sandy Mucky Mineral (CF6) Polyvalue Below Surface (S9) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Meets Spotic (TA6) (ML Red Patrix (TA6) Meets Spotic (TA6) (ML Red Patrix (S6) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remart Other (Explain in Remart Other (Explain in Remart	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
wrpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin wrpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin wrpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin wrpe: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lin wrpe: C=Cast Prairie Reduced Matrix (S4) MLRA 149B) Coast Prairie Redox (A1 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) Coast Prairie Redox (A1 Stratified Layers (A5) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Matrix (F2) Polyvalue Below Surface (S7) Depleted Below Dark Surface (A12) K Redox Dark Surface (F6) Trin: Dark Surface (S7) Thin Dark Surface (S7) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Inor-Marganese Massee Sandy Gleyed Matrix (S4) Redox Depressions (F8) Meets: Spodic (TA6) (ML Sandy Gleyed Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remart Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remart Other (Explain in Remart	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
dric Soil Indicators: Indicators for Problemati	tic Hydric Soils ³ : K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR R) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A1 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or	K, L, MLRA 149B) 16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A1 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Pe	16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A1 Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Pe	16) (LRR K, L, R) at (S3) (LRR K, L, R R K, L, M)
Black Histic (A3)	at (S3) (LRR K, L, R R K, L, M)
Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Massee Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain So Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (ML Stripped Matrix (S6) Very Shallow Dark Surface Very Shallow Dark Surface Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remark	(K, L, M)
Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masser Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain So Sandy Redox (S5) Redox Depressions (F8) Mesic Spodic (TA6) (ML Stripped Matrix (S6) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remark	e (S8) (LRR K. L)
	(LRR K, L)
	s (F12) (LRR K, L, I
	LRA 144A, 145, 149
Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remar	F2)
	ace (TF12) inks)
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
idicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	
	······································
estrictive Layer (if observed):	
Type: NONE Depth (inches): N/A Hydric Soil Present? Yes _	
Depth (inches): Hydric Soil Present? Yes _	<u> </u>
marks:	

Project/Site North America Park Town/County: West Seneca/Erie County Sampl	ng Date: 10.9.2019
Applicant/Owner: <u>Nanco Associates LLC</u> State: <u>New York</u>	Sampling Point:5
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Township, R	
Landform (hillslope, terrace, etc.): <u>Deptersed</u> Local relief (concave, convex,	
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Lor Soil Map Unit Name: <u>CAYUGA</u> STLT LOAM, 3-87	g: Datum: <u>NAD83</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	
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.
Hydric Soil Present? Yes X No with	e Sampled Area nin a Wetland? Yes <u>メ</u> No s, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
L 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)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season W ater 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 (•
Algal Mat or Crust (B4) Recent Iron Reduction in Ti	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes X No X Depth (inches): O 3''(1) Water Table Present?	25%)
Water Table Present? Yes 🔀 No Depth (inches):	
Saturation Present? Yes <u>Y</u> No <u>Depth</u> (inches): <u>SUL</u>	کے کے Wetland Hydrology Present? Yes K. No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous in	ispections), if available:
Remarks:	

1				Number of Dominant Species That Are OBL, FACW , or FAC:	2	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	_ (B)
4				Percent of Dominant Species	. */	
5				That Are OBL, FACW, or FAC:	1Wh	(A/B)
6				Prevalence Index worksheet:		
7				Total % Cover of:	Multiply by:	
		= Total C		OBL species x 1		
Sapling/Shrub Stratum (Plot size:15'))	_		FACW species x2	2 =	_
1. Salix discolor		Y	FACW	FAC species x 3		1
2. Cornus amomum		Ň	FACW	FACU species x 4		
3		, -		UPL species x 5		1
4				Column Totals: (A)	_ (B)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicat	tors:	
7				1 - Rapid Test for Hydrophyti		
····	30	= Total	Cover	2 - Dominance Test is >50%		
Herb Stratum (Plot size:5')			00101	3 - Prevalence Index is < 3.		
1. Phanymites australis	80	У	FACW	4 - Morphological Adaptation data in Remarks or on a	s' (Provide sup separate shee	oporting
2. Withrum Salilaria		- <u>- (</u>	FACW	Problematic Hydrophytic Veg	-	·
3. Onuclea Sansibilis		- <u> </u>	FACW			
4. Iris pseudacorus		<u></u>	OBL	1Indicators of hydric soil and wet be present, unless disturbed or		must
5		<u>1</u>		amaa amaana ahara ah		
				Definitions of Vegetation Strata	3:	
67				Tree - Woody plants 3 in. (7.6 cm at breast height (DBH), regardle) or more in dia	ameter
8				Sapling/shrub - Woody plants les and greater than 3.28 ft (1 m) ta		SH
9				Herb - All herbaceous (non-wood	du) planta rogu	ordiace
10				of size, and woody plants less th	nan 3.28 ft tall.	
11				Woody vines - All woody vines	preater than 3.	28 ft in
12		Total Cov		height.		
Mandu Vine Stratum (Distaire) 201		Total COV				
Woody Vine Stratum (Plot size: <u>30'</u>)						
1				Community Type: Emeri	ont Mo	urk_
2					PEM2B	
3				Hydrophytic Vegetation		
4		= Total		Present? Yes	No	
Remarks: (Include photo numbers here or on a separate	sheet.)		Cover			
~ .	tion of Photo	n Noo	th			
		- <u>14er</u>	<u> </u>			
	0	۱۱.	Brush-h	orgel		
·	kei	ent 'Y	Purse .	/)		
	, Ma	Hand	1112			
	V*C	- TY WILK	0 "			

Absolute Dominant Indicator

% Cover Species? Status

Tree Stratum (Plot size: ____

VEGETATION : Use scientific names of plants.

30'

____)

Sampling Point: D15

Dominance Test worksheet:

Number of Dominant Species

Depth			h needed to documen				•••	-
inches)	Matrix Color (moist)	%	Color (moist)	x Featu	res Type ¹	Loc ²	 Texture	Remarks
00	1 110 21	0-	and the	poter a.	بعر		1.0	
$\frac{\sqrt{-1}}{\sqrt{-1}}$	154R31,	47	1042518		C	120	<u> </u>	
9-16	10425h	95	10785/2	and the second sec	C	m	Sil	
<u> </u>	<u></u>		<u>,</u>					
			<u></u>			·		
							Berlintenberlintenbergentenbergentenbergentenbergentenbergentenbergentenbergentenbergentenbergentenbergentenberg	
. <u></u>								
					·		<u></u>	
	-							
					·			
							·····	
		etion, RM=	Reduced Matrix, CS=0	Covered	or Coate	d Sand Gra		n: PL=Pore Lining, M=Matrix.
ydric Soil l	ndicators:						Indicators	for Problematic Hydric Soils ³ :
Histoso	1 (4 1)		Polyvalue Be	Iow Surf		000	2 cm M	uck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B)	•			Coast F	Prairie Redox (A16) (LRR K, L, R)
	listic (A3)		Thin Dark Su				B) 5 cm M	ucky Peat or Peat (\$3) (LRR K, L, R)
Stratifie	en Sulfide (A4) d Layers (A5)		Loamy Mucky			K K, L)	Polyval	urface (S7) (LRR K, L, M) ue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface	e (A11)	Depleted Mat	trix (F3)			Thin Da	ark Surface (S9) (LRR K, L)
Sandv	vark Surface (A12) Mucky Mineral (S1)		Redox Dark S Depleted Dark				Iron-Ma Piedmo	anganese Masses (F12) (LRR K, L, R ont Floodplain Soils (F19) (MLRA 149
Sandy	Gleyed Matrix (S4)		Redox Depre				Mesic S	Spodic (TA6) (MLRA 144A, 145, 149E
	Redox (S5) d Matrix (S6)							rrent Material (TF2) hallow Dark Surface (TF12)
Dark S	urface (S7) (LRR R, M	ILRA 149B)				Other (I	Explain in Remarks)
Indicators of	hydrophytic vegetation	and wetlar	nd hydrology must be pr	esent, ur	nless distu	rbed or prot	plematic.	
estrictive L	ayer (if observed):							
Туре:	NONE							
Depth (incl	nes)://	KÎ					Hydric Soil Pro	esent? Yes 🔀 🛛 No
emarks:							1	
ornanto.								

Project/Site North America Park Town/County: West Seneca/I	Frie County Sampling Date:	10.9.2019
Applicant/Owner: <u>Nanco Associates LLC</u>	State: <u>New York</u>	Sampling Point: 16
Investigator(s): <u>Scott Livingstone & Tom Somerville</u>		
Landform (hillslope, terrace, etc.): Depression Local re	list (assessed assessed assessed	1001 E Signa (9(): 1-2
Subregion (LRR or MLRA) _LRRL Lat:	Long:	Datum: <u>NAD83</u>
Soil Map Unit Name: CANAN BAIGUA		
Are climatic / hydrologic conditions on the site typical for this ti	me of year? Yes No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signific	cantly disturbed?	Are "Normal Circumstances" present? Yes 💹 No
Are Vegetation, Soil, or Hydrology natu	urally problematic? (If needed, ex	plain any answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map showing sam		
	In the Complet	1 Amo
Hydrophytic Vegetation Present? Yes <u>Yes</u> No		
Hydric Soil Present? Yes <u>No</u>		1,19
Wetland Hydrology Present? Yes <u>Yes</u> No Remarks: (Explain alternative procedures here or in a separ		Wetland Site ID:
MOWN SHRUG/SCRUB L	JETLAND	
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	at apply)	Surface Soil Cracks (B6)
	r-Stained Leaves (B9)	Drainage Patterns (B10)
	tic Fauna (B13)	Moss Trim Lines (B16)
	Deposits (B15)	Dry-Season W ater Table (C2)
	ogen Sulfide Odor (C1)	Crayfish Burrows (C8)
	zed Rhizospheres on Living Roo	ts (C3) Saturation Visible on Aerial Imagery (C9)
	ence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
	nt Iron Reduction in Tilled Soils (0	
	Muck Surface (C7)	Shallow Aquitard (D3)
	r (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:	A1/A	
Surface Water Present? Yes No X Dept		
Water Table Present? Yes <u>X</u> No Depti		/etland Hydrology Present? Yes 🗶 No
Saturation Present? Yes <u>X</u> No Dept (includes capillary fringe)	n (inches): <u>22773</u> v	/etland Hydrology Present? Yes <u>X</u> No
Describe Recorded Data (stream gauge, monitoring well, ae	rial photos, previous inspections)	, if available:
Remarks:		
richaria.		

1

Project Code: 1	W11I18a
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VEGETATION : Use scientific names of plants.		Sampling Point:
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30') 1. Fraxinus pennsylvaniza	<u>% Cover Species? Status</u> <u>10 Y FACW</u>	Number of Dominant Species That Are OBL, FACW , or FAC: (A)
2 3		Total Number of Dominant Species Across All Strata:(B)
4 5		Percent of Dominant Species That Are OBL, FACW , or FAC: (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	<u> </u>	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:)		FACW species x 2 =
1. Cornus racemusa	<u>22 Y FAC</u>	FAC species x 3 =
2. Fraxinus pennstvanica	15 Y FACW	FACU species x 4 = UPL species x 5 =
3. Cornus amornum		Column Totals: (A) (B)
4. Franquia ainus 5.		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
	52 = Total Cover	X. 2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')		3 - Prevalence Index is < 3.0 ¹
1. <u>Agrimonia grypose pala</u> 2. Okodea Sensibilis	<u>20 Y FACU</u> 19 Y FACU	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain)
3. Sumphyotrichum lateriflorum	7 N FAC	
	5 N FACW	Indicators of hydric soil and wetland hydrology must
4. Solidago giyantea 5. Rosa multiflora	5 N FACU	be present, unless disturbed or problematic.
		Definitions of Vegetation Strata:
6. <u>Syn phystrichum nourae-anyliae</u> 7. Juncus effusus	$\frac{1}{2}$ $\frac{1}{N}$ $\frac{1}{0}$ $\frac{1}$	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8		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 tall.
12		Woody vines - All woody vines greater than 3.28 ft in height.
	6/ = Total Cover	neight.
Woody Vine Stratum (Plot size: <u>30'</u>)		
1		Community Type: Scrub Sharb
2		Community Type: <u>Screet</u> Street
3		Hydrophytic 400 L 15 Vegetation
4		Present? Yes <u>}</u> No
	= Total Cover	
Remarks: (Include photo numbers here or on a separate Photo # PI7 Direct	sheet.) iion of Photo <u>North</u>	
	Recently Brush-hogged	
	Recently Brush-hoggel Wotland W9	
	Notland W9	

Sampling Point:	516

Depth	ription: (Describe to Matrix	•		x Feature				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-16	10 m 3/1	0,7	Investe		Carrier .	Aa	5.0	
	10/10/1		1031-10		ên-			
			-					
					<u> </u>			
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	han ha alaha takan kang asal na ang kang kang kang kang kang kang ka	- 1977-187-1997-188-188-1998-1994-1						
		<u></u>						
	oncentration, D=Deple	etion, RM=R	educed Matrix, CS=0	Covered c	or Coated	Sand Gra		: PL=Pore Lining, M=Matrix. For Problematic Hydric Soils ³ :
yaric Soli	Indicators:						mulcators	or Problematic Hydric Sons .
Histos			Polyvalue Be		ce (S8) (I	.RR R,	2 cm Mu	ck (A10) (LRR K, L, MLRA 149B)
	Epipedon (A2) Histic (A3)		MLRA 149B) Thin Dark Su		(I RR R	MLRA 149		airie Redox (A16) (LRR K, L, R) cky Peat or Peat (S3) (LRR K, L, R)
Hydrog	gen Sulfide (A4)		Loamy Muck	y Mineral ((F1) (LRF		Dark Sur	face (S7) (LRR K. L. M)
Stratifi	ed Layers (A5) ed Below Dark Surface	(Loamy Gleye		F2)		Polyvalu	e Below Surface (S8) (LRR K, L) k Surface (S9) (LRR K, L)
Thick I	Dark Surface (A12)	e (A11)	Depleted Ma Kedox Dark	Surface (F	6)		Iron-Mar	danese Masses (F12) (LRR K. L. R
Sandy	Mucky Mineral (S1)		Depleted Dai	k Surface	(F7)		Piedmon	t Floodplain Soils (F19) (MLRA 149
	Gleyed Matrix (S4) Redox (S5)		Redox Depre	ssions (F8	3)		Mesic Sp Red Par	oodic (TA6) (MLRA 144A, 145, 149E ent Material (TF2)
	ed Matrix (S6)						Very Sha	allow Dark Surface (TF12)
Dark S	Surface (S7) (LRR R, M	LRA 149B)					Other (E	xplain in Remarks)
	hydrophytic vegetation	and wetland	I hydrology must be p	resent, unl	ess distu	rbed or prot	plematic.	
	ayer (If observed): <u>None</u>							
Туре:		6	-				Hudria Sail Pro	sent? Yes 🗶 No
Depth (inc	ches):		-				Hydric Soli Pre	
emarks:								

WETLAND DETERMINATION DATA FORM - Northcentral and Northe

Project/Site North America Park Town/County: West Ser	neca/Erie County Sa	ampling Date: 10	.9.2019
Applicant/Owner: <u>Nanco Associates LLC</u>		k §	Sampling Point:
Investigator(s): <u>Scott Livingstone & Tom Somerville</u>			
Landform (hillslope, terrace, etc.): <u>LAKE Phen</u> Li			
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>NIAGARA STAT</u>	· · · ·	Long:	Datum: <u>NAD83</u>
Soil Map Unit Name: NITAGARA 6527	LOMM JIM	SobStatin NWI d	assification: ////A
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes	No (If no, exp	plain in Remarks.)
Are Vegetation, Soil, or Hydrologys	significantly disturbed?	Are "Normal C	ircumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology			
SUMMARY OF FINDINGS : Attach site map showing	sampling point locati	ons, transects, important fe	eatures, etc.
Hydrophytic Vegetation Present? Yes	No X	Is the Sampled Area	
Hydric Soil Present? Yes	No <u>×</u> No <u>×</u>	within a Wetland?	Yes No <u>^</u>
Wetland Hydrology Present? Yes		If yes, optional Wetland Site	Yes No_ <u>×</u> ID: <i>N/A</i>
Remarks: (Explain alternative procedures here or in a		n jes, optional restand one	
UPLAND MOWN FIL			
HYDROLOGY			
Wetland Hydrology Indicators:		<u>S</u> e	econdary 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)
	Aquatic Fauna (B13)	• • •	Moss Trim Lines (B16)
	Marl Deposits (B15)		Dry-Season W ater Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor	(C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres	s on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)
	Presence of Reduced I		Stunted or Stressed Plants (D1)
	Recent Iron Reduction	• •	Geomorphic Position (D2)
	Thin Muck Surface (C7		Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rem		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (D5)
Field Observations:		10	
Surface Water Present? Yes No X	Depth (inches):	$\frac{1}{1}$	
Water Table Present? Yes No X	Depth (inches): Depth (inches): Depth (inches):		ology Present? Yes No 🔽
Saturation Present? Yes No Z	Depth (inches):	wetland Hydro	ology Present? Yes No A
Describe Recorded Data (stream gauge, monitoring we	ell, aerial photos, previo	ous inspections), if available:	
Remarks:			
Remarks.			

	Absolute Dominant Ind % Cover Species? Sta	
<u>Tree Stratum</u> (Plot size: <u>30'</u>)		Number of Dominant Species
1		
2		
4		Percent of Dominant Species That Are OBL, FACW , or FAC: (A/B)
5		—
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: <u>15'</u>)		FACW species x 2 =
1. Lontera taturica	40 Y F	ACU FAC species x 3 =
2. Carnus racemosa		FACU species x 4 =
3. Rhammus cathartiza		UPL species x 5 =
		Column Totals: (A) (B)
4		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
7	57 = Total Cover	
	= Total Cover	3 - Prevalence Index is < 3.0 ¹
Herb Stratum (Plot size: <u>5'</u>) 1. Wbus alleghaniensis	20 Y Fr	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Poa orntensis		ACU Problematic Hydrophytic Vegetation ¹ (Explain)
		Reu
3. Dactylis ybmerata		1Indicators of hydric soil and wetland hydrology must
4. <u>Botentilla Simplex</u>		
5. Tarnx ocum officinate	5 N FACL	
6. Fragaria virginiana	3 N FAC	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Symphystrichum ericoides	2 N FAC	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) tall.
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 ft in
	68 = Total Cover	height.
Woody Vine Stratum (Plot size: 30')		
1		
2		Community Type: Brushy cleared land
		—
3		Hydrophytic Vegetation
4		Present? Yes No X
Remarks: (Include photo numbers here or on a separate s	= Total Cover	·
Remarks: (Include photo numbers here or on a separate si		
Photo # Direction	on of Photo <u>West</u>	
D	Hy Brush-hugg	e L
Ullen.	and trease 0.	

VEGETATION : Use scientific names of plants.

Sampling Point: D

Sampling Point:	Δ	l	7	
 \ \				

OIL								Sampling Point: DII
Profile Desc	ription: (Describe to	the depth	n needed to docume	nt the inc	licator o	confirm t	he absence of	indicators.)
Depth	Matrix	•		ox Featur				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
M-Q	124/24/2	100					5:1	
	10424/2 1042514	700	10001.		·		A	
3-16	10412514	90	104R516	10	<u> </u>	m	<u>y</u>	
						· <u>······</u>		
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			·		
	·····			<u> </u>				
·····	uning a galangina galanging dalam pang kang kang kang kang kang kang kang k							
Type: C=Co	oncentration, D=Deplet	ion. RM=I	Reduced Matrix. CS=	-Covered	or Coate	d Sand Gra	ins. ² Loca	tion: PL=Pore Lining, M=Matrix.
	ndicators:				÷			rs for Problematic Hydric Soils ³ :
							-	
Histoso	ol (A1) Epipedon (A2)		Polyvalue B MLRA 149E		ice (S8) (i	LRR R,	2 cm Coas	Muck (A10) (LRR K, L, MLRA 149B) st Prairie Redox (A16) (LRR K, L, R)
Black H	listic (A3)		Thin Dark S	urface (S9			IB)5 cm	Mucky Peat or Peat (S3) (LRR K, L, R)
Hydrog	ien Sulfide (A4) ed Layers (A5)		Loamy Mucl			R K, L)	Dark	Surface (S7) (LRR K, L, M) value Below Surface (S8) (LRR K, L)
Deplet	ed Below Dark Surface	(A11)	Depleted Ma	atrix (F3)	(1-2)		Thin	Dark Surface (S9) (LRR K, L)
Thick D	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark				Iron-	Manganese Masses (F12) (LRR K, L, R) mont Floodplain Soils (F19) (MLRA 149 E
Sandy	Gleyed Matrix (S4)		Redox Depr	essions (F	5(17) 58)		Mesi	c Spodic (TA6) (MLRA 144A, 145, 149B
Sandy	Redox (S5) d Matrix (S6)						Red	Parent Material (TF2) Shallow Dark Surface (TF12)
	urface (S7) (LRR R, MI	.RA 149B)				Othe	r (Explain in Remarks)
Indicators of	hydrophytic vegetation	and wetlan	nd hydrology must be r	present un	less distu	rbed or prof	ematic.	
	ayer (if observed):							
Type:	NONE							
	a l	'A					Hydric Soil	Present? Yes No 🔀
Depth (inc	nes):	/•1					Tiyune Son	
emarks:								

Project/Site North America Park Town/County: West Seneca/Erie County_Sampling Date: 10.9.2019
Applicant/Owner: Nanco Associates LLC State: New York Sampling Point: 12
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Township, Range: <u>206.07-1-26.1</u>
Landform (hillslope, terrace, etc.): Deptember 2017 Concerner (conceve, convex, none): CONCAVE Slope (%): 1-7
'n
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Long: Datum: <u>NAD83</u>
Soil Map Unit Name: CANANDATLUA SELT LOAM NWI classification: PS3/MOWN
Are climatic / hydrologic conditions on the site typical for this time of year? Yes 📝 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area Hydric Soil Present? Yes X No within a Wetland? Yes No
Wetland Hydrology Present? Yes No If yes, optional Wetland Site ID: W ID
Remarks: (Explain alternative procedures here or in a separate report.)
MOWN SHRUBISCRUB WETLAND @ START OF SMALL
STREAM
and the first from the second se
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) Dry-Season W ater 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)
Field Observations:
Surface Water Present? Yes <u>X</u> No <u>X</u> Depth (inches): <u>I = 2 (Stable</u>)
Water Table Present? Yes <u>X</u> No Depth (inches): <u>50 Atra Ce</u>
Pred Observations. Surface Water Present? Yes X No Depth (inches): J-2" Water Table Present? Yes Yes X No Depth (inches): Saturation Present? Yes Yes Xo Depth (inches): Source Wetland Hydrology Present? Yes Yes No Depth (inches): Source Wetland Hydrology Present? Yes No Depth (inches): Source Wetland Hydrology Present? Yes Xo
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

Project Code: W111	18a
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/EGETATION : Use scientific names of plants.		Sampling Point:8
	Absolute Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1. Populus del tol des	<u>% Cover Species? Status</u> <u>15</u> <u>Y</u> <u>FAC</u>	Number of Dominant Species \mathcal{U} (A) That Are OBL, FACW , or FAC:
2		Total Number of Dominant Species Across All Strata:(B)
4		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
5		
7		Prevalence Index worksheet: Total % Cover of:Multiply by:
···	15 = Total Cover	OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15')		FACW species x 2 =
1. Frexinus penneybuniza		FAC species x 3 =
2. Cornus amomum	15 Y FACW	FACU species x 4 =
		UPL species x 5 =
	12 N Fricu	Column Totals: (A) (B)
4. tranyula alms	<u>S</u> <u>N</u> FAC	Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
	62 = Total Cover	<u>×</u> 2 - Dominance Test is >50%
Herb Stratum (Plot size: <u>5'</u>)		3 - Prevalence Index is < 3.0 ¹
1. <u>Droclea</u> <u>Sensibilis</u>	18 Y FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Aurimonia Gryposchala	16 Y FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Symphyotrichum aderitorum	<u>9</u> N FAC	Indicators of hydric soil and wetland hydrology must
4. Junius effusus	<u>5 N OBL</u>	be present, unless disturbed or problematic.
5. Rusa multiflora	<u>5 N FACU</u>	Definitions of Vegetation Strata:
6. Solidugo giountea 7. Carex Sevoaria	3 N FACW	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8. Bickens cornue	I N UCL	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
11		
12	58 = Total Cover	Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:)		
1		Community Type: <u>SCNb ShNb</u>
2		PS7B
3		Hydrophytic
4		Vegetation Present? Yes <u>X</u> No
	= Total Cover	
Remarks: (Include photo numbers here or on a separate Photo # Direct	sheet.) ion of Photo_Eu\$+	
	Recently Br	wsh-hogged
• • • • • • • • • • • • • • • • • • •		
	Wetland WID	

Sampling Point: 018

epth	Matrix		Redo	x Featur	res		te absence of	
iches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
5-8	1. 231.	98	aco sto		م <i>ىر</i>	a 13	6. A	
	<u></u>	-10	1075-18		haver			
3-16	1092511	47	1078518		<u> </u>	n	<u></u>	
		····· ,						
					<u></u>			
May - 14 - 14 - 14 - 14 - 14 - 14 - 14 - 1								
pe: C=Co	oncentration, D=Deple	tion, RM=F	Reduced Matrix, CS=	Covered	or Coated	Sand Grai	ns. ² Loca	ation: PL=Pore Lining, M=Matrix.
	Indicators:						Indicate	ors for Problematic Hydric Soils ³ :
I Veter	-1 (A 4)						0.00	
Histos Histic I	ol (A1) Epipedon (A2)		Polyvalue Be MLRA 149B		ace (S8) (L	RR R,		n Muck (A10) (LRR K, L, MLRA 149B) st Prairie Redox (A16) (LRR K, L, R)
Black I	Histic (A3)		Thin Dark Su	, irface (SS			3)5 cm	n Mucky Peat or Peat (S3) (LRR K, L, R
Hydrog Stratifi	gen Sulfide (A4) ed Layers (A5)		Loamy Muck			. K, L)	Dan Poly	c Surface (S7) (LRR K, L, M) value Below Surface (S8) (LRR K, L)
Deplet	ed Below Dark Surface	(A11)	X Depleted Ma	trix (F3)			Thin	Dark Surface (S9) (LRR K, L)
Thick I Sandv	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark Depleted Da	Surface (i rk Surface	F6) e (F7)		Iron- Pied	-Manganese Masses (F12) (LRR K, L, F Imont Floodplain Soils (F19) (MLRA 149
	Gleyed Matrix (S4)		Redox Depre	essions (F	-8)		Mes	ic Spodic (TA6) (MLRA 144A, 145, 149
Sandy	Redox (S5)		Redox Depre	essions (F	8)		Mes Red	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2)
Sandy Strippe		LRA 149B)	Redox Depre	essions (F	8)		Mes Red Very	ic Spodic (TA6) (MLRA 144A, 145, 149
Sandy Strippe	Redox (S5) ed Matrix (S6)	LRA 149B)	Redox Depre	essions (F	8)		Mes Red Very	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) / Shallow Dark Surface (TF12)
Sandy Strippe	Redox (S5) ed Matrix (S6)	LRA 149B)	Redox Depre	essions (F	8)		Mes Red Very	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) / Shallow Dark Surface (TF12)
Sandy Strippe Dark S	Redox (S5) ed Matrix (S6) surface (S7) (LRR R, M	,	Redox Depre		-8)	bed or probl	Mes Red Very Othe	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) / Shallow Dark Surface (TF12)
Sandy Strippe Dark S	Redox (S5) ed Matrix (S6) surface (S7) (LRR R, M	and wetlan	Redox Depre		-8)	bed or probl	Mes Red Very Othe	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) / Shallow Dark Surface (TF12)
Sandy Strippe Dark S	Redox (S5) ed Matrix (S6) surface (S7) (LRR R, M	and wetlan	Redox Depre		-8)	bed or probl	Mes Red Very Othe	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) / Shallow Dark Surface (TF12)
Sandy Strippe Dark S dicators of strictive L Type:	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) / Shallow Dark Surface (TF12)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 145 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 145 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy Strippe Dark S dicators of strictive L Type: Depth (inc	Redox (S5) ad Matrix (S6) surface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlan	Redox Depre		-8)	bed or probl	ematic.	ic Spodic (TA6) (MLRA 144A, 145, 145 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)

Project/Site North America Park Town/County: West S	encer/Eric County Sa	Inpling Date: 10.9.2019
Applicant/Owner: <u>Nanco Associates LLC</u>		
Investigator(s): <u>Scott Livingstone & Tom Somerville</u>		
Landform (hillslope, terrace, etc.): LAKE Plain		
Subregion (LRR or MLRA) Lat:		Long: Datum: NAD83
Soil Map Unit Name: <u>NJIA6ARA</u> 51	ELT LGAM,	Long: Datum: <u>NAD83</u> デル รบธรรณ ⁺ ทัพ I classification: アジン/ Mのいみ
Are climatic / hydrologic conditions on the site typical for		
		Are "Normal Circumstances" present? Yes 🚬 No
Are Vegetation, Soil, or Hydrology		
SUMMARY OF FINDINGS : Attach site map showin	ng sampling point locati	ons, transects, important features, etc.
Hydrophytic Vegetation Present? Yes		Is the Sampled Area
Hydric Soil Present? Yes	No	within a Wetland? Yes <u>No</u>
Wetland Hydrology Present? Yes 🗡	No	If yes, optional Wetland Site ID:
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; chec	k all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9) Drainage Patterns (B10)
K High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season W ater Table (C2)
Water Marks (B1)	_ Hydrogen Sulfide Odor	(C1) Crayfish Burrows (C8)
Sediment Deposits (B2)	_ Oxidized Rhizospheres	s on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	_ Presence of Reduced In	
Algal Mat or Crust (B4)	_ Recent Iron Reduction	
Iron Deposits (B5)	_ Thin Muck Surface (C7)	•
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Rem	
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (D5)
Field Observations:		10
Surface Water Present? Yes No <u>*</u>	_ Depth (inches):7	
Water Table Present? Yes X No	_ Depth (inches): <u>//</u> _ Depth (inches): <u>Z//</u> _ Depth (inches): <u>5//</u>	Aqce Wetland Hydrology Present? Yes <u>≯</u> No
Saturation Present? Yes X No	_ Depth (Inches):	
Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previo	us inspections), if available:
Dama da		
Remarks:		

Tree Stratum (Plot size: 30')	<u>% Cover Species? Status</u>	Dominance rest worksheet.
1		Number of Dominant Species 4 (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5		That Are OBL, FACW, or FAC: <u>100</u> (A/B)
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size:15')		FACW species x 2 =
1. Fraxinus pennsylvanica	20 Y FACW	FAC species x 3 =
2. Cornus amonum	V ~	FACU species x 4 =
3. Cornus racemosa	15 Y FAC	UPL species x 5 = Column Totals: (A) (B)
4. Frangula alnus		
5		Prevalence Index = B/A =
6		Hydrophytic Vegetation Indicators:
7		1 - Rapid Test for Hydrophytic Vegetation
	= Total Cover	λ 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0 ¹
Herb Stratum (Plot size:5')		4 - Morphological Adaptations ¹ (Provide supporting
1. Juncus effusus	<u>25 Y OBL</u>	data in Remarks or on a separate sheet)
2. Bidens Frondosa	10 N FACW	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Epilobium coloratum	10 N X3L	Indicators of hydric soil and wetland hydrology must
4. Lythrum Salizaria	8 N FACW	be present, unless disturbed or problematic.
5. Carex Scoparia	7 N FACW	Definitions of Vegetation Strata:
6. Symphystrichum lateriflorm	6 N FAC	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Lycopus americanus	6 N UBL	at breast height (DBH), regardless of height.
8. Junie Envis	2 N Fre	Sapling/shrub - Woody plants less than 3 in. DBH
9		and greater than 3.28 ft (1 m) tall.
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 ft in
	<u>74</u> = Total Cover	height.
Woody Vine Stratum (Plot size: <u>30</u> ')		
1		
2		Community Type: SCNb ShNb
3		Hydrophytic PS3 2 8
4		Vegetation Present? Yes <u>X</u> No
	= Total Cover	
Remarks: (Include photo numbers here or on a separate		
Photo # Direct	ion of Photo <u>North</u>	
		0
	Recently Brush-hos	995
	-	
	· · · · · ·	
	Wetland WI	11

Absolute Dominant Indicator

Project Code: W11I18a

VEGETATION : Use scientific names of plants.

Northcentral and Northeast Region - Version 2.0

1)19

Sampling Point:

Dominance Test worksheet:

SOIL					11.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1				Sampling Poin	t: D19
	ription: (Describe to	o the depth				confirm th	ne absence of	indicators.)	
Depth	Matrix			ox Featur						
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture		Remarks	
0-5	104R31,	97	104n578	N	С	N BAR				
5-16	109RGII	20	10 485/6	20		R.C.	6			
	101.4011		10 99-16	harber	· · · · · · · · · · · · · · · · · · ·		& &			
4 2-1,111-1,12-1,12-1,12-1,12-1,12-1,1						, and an and an and an and an 				
	······································				· · · · · · · · · · · · · · · · · · ·					
·	<u></u>									
							,			
			nan an san ann ann an ann an ann an an an tar an tar an tar an				and a second	anne rijerte i tir per en en reprierrent		
Hydric Soil I	ncentration, D=Deple	etion, RM=R	leduced Matrix, CS=	Covered	or Coated	Sand Grain			ore Lining, M=N	
Hyunc Soin	nuicators:						Indicato	rs for Prop	lematic Hydri	c 50115*:
Histoso	ol (A1)		Polyvalue Be	elow Surfa	ice (S8) (L	.RR R.	2 cm	Muck (A10)	(LRR K, L, ML	RA 149B)
	Epipedon (A2)		MLRA 149B)		-	Coas	t Prairie Red	lox (A16) (LRR	K, L, R)
	Histic (A3) Jen Sulfide (A4)		Thin Dark Su						or Peat (S3) (L) (LRR K, L, M)	
Stratifie	ed Layers (A5)		Loamy Gleye			((, L)			Surface (S8) (L	
Deplete	ed Below Dark Surface	e (A11)	Depleted Ma	trix (F3)			Thin	Dark Surface	e (S9) (LRR K,	L)
	Dark Surface (A12) Mucky Mineral (S1)		Redox Dark						Masses (F12) (l ain Soils (F19)	
Sandy	Gleyed Matrix (S4)		Redox Depre				Mesi	c Spodic (TA	6) (MLRA 144/	
	Redox (S5) d Matrix (S6)						Red	Parent Mater	rial (TF2)	0)
Dark S	urface (S7) (LRR R, N	ILRA 149B)						r (Explain in	k Surface (TF1) Remarks)	2)
		· · · · · · · · · · · · · · · · · · ·						`	,	
	hydrophytic vegetation	and wetland	I hydrology must be pi	resent, un	less distur	bed or probl	ematic.			
	ayer (if observed):									
Туре:	None		-						. A	
Depth (inc	hes):	9	_				Hydric Soil	Present?	Yes 🗶	No
Remarks:			-							

Project/Site <u>North America Park</u> 7	Fown/County: West S	eneca/Frie County	Sampling Date	. 10 .	11.201	7
Applicant/Owner: <u>Nanco Associa</u>	etes LLC	State: New Y		S:	ampling Point:	520
Investigator(s): Scott Livingstone					A 157	
Landform (hillslope, terrace, etc.):	<u>222667835.000</u>	Local relief (concave, c	onvex, none):	CONGAN	Slope (%	/o):
Subregion (LRR or MLRA)LRRI	Lat:		Long:		D	atum: <u>NAD83</u>
Subregion (LRR or MLRA) <u>LRR</u> Soil Map Unit Name: <u>CA</u> A	BIAD VAIL	UA SILI	L31958	NW I cla	ssification:	P.55
Are climatic / hydrologic condition	s on the site typical fc	or this time of year? Ye	s <u>X</u> No _	(If no, expl	ain in Remarks.)	
Are Vegetation, Soil						
Are Vegetation, Soil						
SUMMARY OF FINDINGS : Atta	ich site map showin	g sampling point loca	ations, transe	cts, important fea	<u>atures, etc.</u>	
Hydrophytic Vegetation Present	? Yes 🖌	No	Is the Samp	oled Area		
Hydric Soil Present?		No	within a We		Yes <u>×</u> N	
Wetland Hydrology Present?		No	If ves, option	nal Wetland Site IE	$\omega \omega z$	
BHRUB / SCRU BHRUB / SCRU EXTENDS	OFF-SI	TE TO	THE	<i>pj012-1</i> M		
HYDROLOGY						
Wetland Hydrology Indicators	3:			Sec	condary Indicato	rs (minimum of two required)
Primary Indicators (minimum of	one is required; chec	k all that apply)		s	Surface Soil Crac	ks (B6)
Surface Water (A1)	X	Water-Stained Leave	s (B9)	C	Drainage Patterns	s (B10)
🔀 High Water Table (A2)	<i>r</i>	_ Aquatic Fauna (B13)		N	Noss Trim Lines ((B16)
X Saturation (A3)		Marl Deposits (B15)		C	Dry-Season W ate	er Table (C2)
Water Marks (B1)	_	Hydrogen Sulfide Od	or (C1)	(Crayfish Burrows	(C8)
Sediment Deposits (B2)		Oxidized Rhizosphe	res on Living F			e on Aerial Imagery (C9)
Drift Deposits (B3)		Presence of Reduce			Stunted or Stress	
Algal Mat or Crust (B4)	_	_ Recent Iron Reduction	on in Tilled Soi		Geomorphic Posi	
Iron Deposits (B5)		_ Thin Muck Surface (Shallow Aquitard	
Inundation Visible on Aeria		_ Other (Explain in Re	emarks)		Microtopographic	
Sparsely Vegetated Conca	ive Surface (B8)			F	FAC-Neutral Test	: (D5)
Field Observations:	· · ·	,	le a			
Surface Water Present?	Yes No <u>_X</u> _	_ Depth (inches):	<u> </u>			
Water Table Present?	Yes 🔀 No	_ Depth (inches): _ Depth (inches): _ Depth (inches):				× × N.
Saturation Present? (includes capillary fringe)	Yes No	_ Depth (inches): _ <u>/</u>	114960	Wetland Hydrol	ogy Present?	Yes <u>×</u> No
Describe Recorded Data (stream	n gauge, monitoring v	well, aerial photos, prev	/ious inspectio	ns), if available:		
Remarks:						
1						

EGETATION : Use scientific names of plants.				Si	ampling Point:	-9w	
			ant Indicator	Dominance Test worksh	eet:		
Tree Stratum (Plot size: <u>30'</u>) 1. Fakihus pennsylvanica			<u>FACW</u>	Number of Dominant Spe That Are OBL, FACW , or	cies FAC: <u>5</u>	(A)	.)
2 3				Total Number of Dominar Species Across All Strata		5(E	B)
4 5				Percent of Dominant Spe That Are OBL, FACW , or	cies FAC: <u>/</u> //	A)	√B)
ð				Prevalence Index works	heet:		
7				Total % Cover of:	Multi	ply by:	
	8	= Total	Cover	OBL species			
Sapling/Shrub Stratum (Plot size:15'				FACW species			
		v	FACW	FAC species			
Fraxinus pennsylvanica				FACU species			
. (ornus racemosa	12	<u></u>	<u> </u>	UPL species			
. Cornus amonum		N	FACW	Column Totals:			B)
. Rhumnus cathartica	7	<u>N</u>	FAC				Ξ,
				Prevalence Index =	: B/A =		
l				Hydrophytic Vegetation	Indicators:		
·				1 - Rapid Test for Hy	drophytic Veg	etation	
			I Cover	2 - Dominance Test is	s >50%		
	/	_ = 1 ota	ll Cover	3 - Prevalence Index	< is < 3.0 ¹		
Photosic (Plot size:)	20	<u>Y</u> _	FACU	4 - Morphological Ad data in Remarks	aptations ¹ (Pro	ovide support	tin
2. Onoclea sensibilis		- <u>- l</u>	FACU	Problematic Hydroph	•		
B. Euthamia gramini Folia	<u>/6</u> 		- FAC		yuo vogolalio		
A Symphyotrichum lateriflerum		- 10-	FAC	Indicators of hydric soil			st
		N	FACW	be present, unless distur		matic.	
5. Solidago rugosa 5. Carex Scoparia	6	N	FACW	Definitions of Vegetatio	n Strata:		
. Carex Scoparia	5	N	FAL	Tree - Woody plants 3 in.			ter
3. Frequeria unginiaria		N	FACU	at breast height (DBH), r	-		
. Symphystrichum norae-anglice		Ν	FACN	Sapling/shrub - Woody p and greater than 3.28 ft	(1 m) tall.	1 3 IN. DBH	
0				Herb - All herbaceous (n of size, and woody plant			355
I1				Woody vines - All wood	v vines areate	r than 3.28 ft	t in
12	=			height.	,		
	=	i otal Co	iver				
Noody Vine Stratum (Plot size: <u>30'</u>)							
1	<u> </u>		<u> </u>		enils the	de	
2	<u> </u>			Community Type:			
3			<u> </u>	Hydrophytic	63	152B	
4				Vegetation	<u>م</u> د م		
				Present? Yes	<u> </u>		
			al Cover				

wetland W12

Depth	Matrix	and deput	needed to document			JV 111111		
inches)	Color (moist)	%	Color (moist)	x Featur %	es Type ¹	Loc ²	Texture	Remarks
67	and sold !	0.0	1.1.05/0			• •	2 · A	
	TOPET	<u> 78</u>	1042518	_Z_			712	
7-16	10YR5/1	85	16425/8	15	C	m	Sicl	
		<u></u>						
		<u> </u>						*****
						-		
<u> </u>					<u> </u>			
								······································
		<u> </u>						
		nan di Kulana kasaran sa				and wat in the start for a rest		
	contration D-D						21 000	ation: PL=Pore Lining, M=Matrix.
dric Soil Ind			educed Matrix, CS=C	Jovered	or Coatec	i Sano Gia		ors for Problematic Hydric Soils ³ :
Histosol (Polyvalue Bel		ice (S8) (L	.RR R,	2 cm	n Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep Black His	oipedon (A2) stic (A3)		MLRA 149B) Thin Dark Sur	face (S9) (LRR R.	MLRA 14	9B) Coa 5 cm	st Prairie Redox (A16) (LRR K, L, R) n Mucky Peat or Peat (S3) (LRR K, L, R
Hydroger	n Sulfide (A4)		Loamy Mucky	Mineral	(F1) (LRF		Darl	k Surface (S7) (LRR K, L, M)
	l Layers (A5) I Below Dark Surface	(011)	Loamy Gleyed		(F2)			value Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L)
Depicted	Lettere (Ada)	; (ATT)	Depieted Mati	11A (1 U)				
Thick Da			Z Redox Dark S				Iron-	-Manganese Masses (F12) (LRR K, L, R
Sandy M	lucky Mineral (S1)		Depleted Dark	k Surface	e (F7)		Piec	imont Floodplain Soils (F19) (MLRA 149
Sandy M Sandy G Sandy Relationshipsing	lucky Mineral (S1) Bleyed Matrix (S4) Bedox (S5)			k Surface	e (F7)		Piec Mes Red	Imont Floodplain Soils (F19) (MLRA 149 sic Spodic (TA6) (MLRA 144A, 145, 149 I Parent Material (TF2)
Sandy M Sandy G Sandy R Sandy R Stripped	lucky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6)		Depleted Dark	k Surface	e (F7)		Piec Mes Red Ven	Imont Floodplain Soils (F19) (MLRA 149 sic Spodic (TA6) (MLRA 144A, 145, 1491 Parent Material (TF2) y Shallow Dark Surface (TF12)
Sandy M Sandy G Sandy R Sandy R Stripped	lucky Mineral (S1) Bleyed Matrix (S4) Bedox (S5)	ILRA 149B)	Depleted Dark	k Surface	e (F7)		Piec Mes Red Ven	Imont Floodplain Soils (F19) (MLRA 149 sic Spodic (TA6) (MLRA 144A, 145, 1491 I Parent Material (TF2)
Sandy M Sandy G Sandy R Sandy R Stripped	lucky Mineral (S1) eleyed Matrix (S4) edox (S5) Matrix (S6)	iLRA 149B)	Depleted Dark	k Surface	e (F7)		Piec Mes Red Ven	y Shallow Dark Surface (TF12)
Sandy M Sandy Gi Sandy Re Stripped Dark Sur	lucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M		Depleted Dark	k Surface ssions (F	e (F7) 8)		Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 149 sic Spodic (TA6) (MLRA 144A, 145, 149E Parent Material (TF2) y Shallow Dark Surface (TF12)
Sandy M Sandy G Sandy G Sandy R Sandy R Stripped Dark Sur	lucky Mineral (S1) ileyed Matrix (S4) ledox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation		Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 149 sic Spodic (TA6) (MLRA 144A, 145, 1491 Parent Material (TF2) y Shallow Dark Surface (TF12)
Sandy M Sandy G Sandy G Stripped Dark Sur	lucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation ver (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 149 sic Spodic (TA6) (MLRA 144A, 145, 1491 Parent Material (TF2) y Shallow Dark Surface (TF12)
Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur Dark Sur dicators of hy estrictive Lay Type:	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 149 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Stripped Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 149 sic Spodic (TA6) (MLRA 144A, 145, 1491 Parent Material (TF2) y Shallow Dark Surface (TF12)
Sandy M Sandy G Sandy G Sandy R Type: Depth (inche	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 149 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 149 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 149 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur ndicators of hy strictive Lay Type: Depth (inche	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 143 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Stripped Dark Sur ndicators of hy strictive Lay Type: Depth (inche	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 143 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 144 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 143 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 144 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 143 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 145 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Type: Depth (inche	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 145 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Type: Depth (inche	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 143 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Stripped Dark Sur ndicators of hy estrictive Lay Type: Depth (inche	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 143 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy Gi Sandy Gi Sandy R Stripped Dark Sur Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 145 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Type: Depth (inche	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 144 iic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 144 ic Spodic (TA6) (MLRA 144A, 145, 149 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)
Sandy M Sandy G Sandy G Sandy R Dark Sur	Iucky Mineral (S1) ileyed Matrix (S4) iedox (S5) Matrix (S6) rface (S7) (LRR R, M ydrophytic vegetation yer (if observed):	and wetland	Depleted Dark	k Surface ssions (F	e (F7) 8)	rbed or pro	Piec Mes Red Very Othe	Imont Floodplain Soils (F19) (MLRA 14 ic Spodic (TA6) (MLRA 144A, 145, 145 Parent Material (TF2) y Shallow Dark Surface (TF12) er (Explain in Remarks)

Project/Site <u>North America Par</u>	'k Town/County: West Sen	eca/Erie County S	Sampling Date:	10.	11.20	19	
Applicant/Owner: <u>Nanco Asso</u>				Sam	pling Point:	DZI	
Investigator(s): Scott Livingsto							
Landform (hillslope, terrace, etc.	AVE Pla ou		nuev nene)	CANEY	Sione /		
Landform (nillslope, terrace, et	C.): <u>LANCO 1 199.71</u> LO	cal relier (concave, co	nvex, none):	here and a grant for	Siope (1		
Subregion (LRR or MLRA)							
Soil Map Unit Name:			-				
Are climatic / hydrologic conditi	ions on the site typical for t	his time of year? Yes	s _X No	(If no, explain	in Remarks.))	
Are Vegetation, Soil	, or Hydrology si	ignificantly disturbed?	· /	Are "Normal Circu	mstances" pre	esent?Yes 🔀	No
Are Vegetation, Soil							
SUMMARY OF FINDINGS : A	ttach site map showing	sampling point loca	tions, transects	, important featu	res, etc.		
Hydrophytic Vegetation Prese	ent? Voo	No	is the Sampled	i Area			
Hydric Soil Present?		No No	within a Wetla	ind? Yes	s N	lo <u>X</u>	
Wetland Hydrology Present?			If ves optional	Wetland Site ID:	Л	1/A	
Remarks: (Explain alternative		separate report.)	Th yes, optional	Trendrid Gilo i.D.			
HYDROLOGY				C	dan Indianta	m (minimum of two r	convirod)
Wetland Hydrology Indicat						rs (minimum of two r	equirea
Primary Indicators (minimum					ace Soil Crac		
Surface Water (A1)		Water-Stained Leaves	s (B9)		inage Pattern		
High Water Table (A2)		Aquatic Fauna (B13)			ss Trim Lines		
Saturation (A3) Water Marks (B1)		Marl Deposits (B15)			Season W ate		
Sediment Deposits (B2)		Hydrogen Sulfide Odo Oxidized Rhizosphere			-	e on Aerial Imagery ((C9)
Drift Deposits (B3)		Presence of Reduced				ed Plants (D1)	(00)
Algal Mat or Crust (B4)	—	Recent Iron Reduction			omorphic Posi		
Iron Deposits (B5)		Thin Muck Surface (C			allow Aquitard		
Inundation Visible on Ae		Other (Explain in Rei		Mic	rotopographic	Relief (D4)	
Sparsely Vegetated Cor	icave Surface (B8)			FA0	C-Neutral Tes	t (D5)	
Field Observations:	······						
Surface Water Present?	Yes No 🗶 I	Depth (inches):					
Water Table Present?	Yes No 🗡 🛛	Depth (inches):				\$	£
Saturation Present?	Yes No 🗡	Depth (inches):	<u>///</u> v	Vetland Hydrolog	y Present?	Yes No 🎽	<u> </u>
(includes capillary fringe) Describe Recorded Data (stro	eam gauge, monitoring we	II. aerial photos, prev	ious inspections)	, if available:			
	J		. ,				
Remarks:							

VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: _____30' _____)

1				That Are OBL, FACW , or FAC: (A)	
2			. <u></u>	Total Number of Dominant	
3				Species Across All Strata: (B)	
4			·	Percent of Dominant Species	
5	<u> </u>			That Are OBL, FACW, or FAC: (A/B)	
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
		= Total	l Cover	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')	_		-	FACW species \underline{O} x2= \underline{O}	
1. Rhamous cathartica		_ <u> </u>	FAC	FAC species 18 x 3 = 54 FACU species 62 x 4 = 248	
2	<u> </u>			$\begin{array}{c} \text{FACU species} \underline{} \\ \text{UPL species} \underline{} \\ \text{VPL species} \underline{} \\ \text{X5} = \underline{} \\ \text{VPL species} \\ VPL s$	
3	<u></u> .			Column Totals: $\underline{35}$ (A) $\underline{307}$ (B)	
4					
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
		<u>5</u> = Tota	al Cover	2 - Dominance Test is >50%	
Herb Stratum (Plot size:5')				3 - Prevalence Index is < 3.0 ¹	
1. Rubus alleghaniensis	16	<u> </u>	FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	i
2. Emgaria viryihiana	12_	<u></u>	FACU	Problematic Hydrophytic Vegetation ¹ (Explain)	
3. Alliana petidaha	10		FACU	1Indicators of hydric soil and wetland hydrology must	
4. Pun pratersis	10	N	FACU	be present, unless disturbed or problematic.	
5. Crigeron strigosis		N	FACU	Definitions of Vegetation Strata:	
6. Rotentilla Simplex	_5	<u>N</u>	FACU	Tree - Woody plants 3 in. (7.6 cm) or more in diameter	
7. Canuncul-s acris		N	FAC	at breast height (DBH), regardless of height.	
8. Scrpus atrovinens	3	N	OBL	Sapling/shrub - Woody plants less than 3 in. DBH	
9. Juneus effusus	2	<u>N</u>	OBL	and greater than 3.28 ft (1 m) tall.	
10. Symphystrichum ericsides	_2_	<u>N</u>	FACU	Herb - All herbaceous (non-woody) plants, regardless	
11			• <u></u>	of size, and woody plants less than 3.28 ft tall.	
12				Woody vines - All woody vines greater than 3.28 ft in	
	:	= Total Co	over	height.	
Woody Vine Stratum (Plot size: <u>30'</u>)					
1					
2				Community Type: Brishy Cleared Lank	
3				Hydrophytic	
4	<u></u>			Vegetation Present? Yes No _X	
		= Tota	al Cover		
Remarks: (Include photo numbers here or on a separate s		. r	. 1 1		
Photo # P23 Directi	on of Pho	to_Nør	unwest_		

Absolute Dominant Indicator

% Cover Species? Status

Recently Brok-hoyged

12

1

Sampling Point:

Dominance Test worksheet:

Number of Dominant Species

Depth	Matrix	ane depu	n needed to docume	ox Featur				
inches)	Color (moist)	%	Color (moist)	<u>0x r eatur</u> %	Type ¹	Loc ²	Texture	Remarks
0.10	invoul.						2.0	
0-10	104R. 4/2 104R. 574	100					<u>5:0</u> 5:0	+++
10-16	104R514	90	10 YR516	10		M	<u> </u>	
		<u> </u>		- <u></u>		·		
			••••••••••••••••••••••••••••••••••••••					······
<u>.</u>								
ype: C=Co /dric Soil li	ncentration, D=Deple	tion, RM=I	Reduced Matrix, CS=	Covered	or Coated	Sand Gra		tion: PL=Pore Lining, M=Matrix. ors for Problematic Hydric Soils ³ :
yune son n	nuicators.						maicato	is for Problematic Hyune Sons .
Histoso			Polyvalue B		ice (S8) (L	RR R,		Muck (A10) (LRR K, L, MLRA 149B)
	pipedon (A2) listic (A3)		MLRA 149E Thin Dark S	3) Jurface (S9) (LRR R.	MLRA 149	9B) Coas 5cm	t Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R
Hydrog	en Sulfide (A4)		Loamy Muc	ky Mineral	(F1) (LRR		Dark	Surface (S7) (LRR K, L, M)
Deplete	d Layers (À5) d Below Dark Surface	(A11)	Loamy Gley	ed Matrix	(F2)		Thin	value Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L)
Thick D	ark Surface (A12) Mucky Mineral (S1)	. ,	Redox Dark Depleted Da	Surface (I	-6) (E7)		Iron-	Manganese Masses (F12) (LRR K, L, R mont Floodplain Soils (F19) (MLRA 149
Gandy i	Cloured Matrix (C1)		Redox Depr	essions (F	(F7) (8)		Mesi	c Spodic (TA6) (MLRA 144A, 145, 149E
Sandy (Gleyed Matrix (S4)							
Sandy I	Redox (S5)						Red Verv	Parent Material (TF2)
Sandy I	Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M	LRA 1498					Very	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy I	Redox (S5) d Matrix (S6)	LRA 149B					Very	Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy I	Redox (S5) d Matrix (S6)	LRA 1498					Very	Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy I Stripped Dark Su	Redox (S5) d Matrix (S6))	present, un	less distur	bed or prol	Very Othe	Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy F	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation aver (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe	Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy F	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe	Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy f Stripped Dark Su ndicators of l estrictive La	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12)
Sandy f Stripped Dark Su ndicators of l estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	oresent, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of l estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of l estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	oresent, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of l estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	oresent, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of I estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of I estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of I estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	oresent, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of I estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of l estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of l estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	oresent, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of l estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su Indicators of estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su Indicators of I estrictive La	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su Indicators of Estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su Indicators of estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)
Sandy f Stripped Dark Su ndicators of I estrictive La Type: Depth (incl	Redox (S5) d Matrix (S6) urface (S7) (LRR R, M hydrophytic vegetation ayer (if observed):	and wetlar)	present, un	less distur	bed or prol	Very Othe blematic.	Parent Material (TF2) Shallow Dark Surface (TF12) r (Explain in Remarks)

Project/Site_North America Park_Town/County: West Seneca/Erie CountySampling Date:
Applicant/Owner: Nanco Associates LLC State: New York Sampling Point:SZZ
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Township, Range: <u>206.07-1-26.1</u>
Landform (hillslope, terrace, etc.): Depremie Local relief (concave, convex, none): CONCAVE Slope (%):
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Long: Datum: <u>NAD83</u>
Soil Map Unit Name: <u>CANANDAIGUA SIZI LOAM</u> NWI classification: <u>PSS/Macuni</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sampled Area Hydric Soil Present? Yes X No within a Wetland? Yes X No Wetland Hydrology Present? Yes X No If yes, optional Wetland Site ID: U13 Remarks: (Explain alternative procedures here or in a separate report.) If yes, optional Wetland Site ID: U13
MOWN SHRUGISCRUB WETLAND
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)
X Surface Water (A1) Y Water-Stained Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)
Z Saturation (A3) Marl Deposits (B15) Dry-Season W ater 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 Aguitard (D3)
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Minication Visible on Aenar Imagery (b7) Other (Explain in Remains) Microopographic Relief (b4)
Field Observations:
Surface Water Present? Yes X No X Depth (inches): <u>6-1" (16%</u>)
Water Table Present? Yes No K Depth (inches):
Saturation Present? Yes X No Depth (inches): SVRTACE Wetland Hydrology Present? Yes X No
(includes capillary fringe)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
Remarks:

1. ____

2		Total Number of Dominant Species Across All Strata: 6 (B)
4 5		Percent of Dominant Species That Are OBL, FACW , or FAC: //W ⁴ /. (A/B)
S	$= Total Cover$ $= Total Cover$ $= 30 \qquad Y \qquad FAC$ $= 10 \qquad Y \qquad FAC$ $= 10 \qquad Y \qquad FAC$	Prevalence Index worksheet:
5 6 7 7 Herb Stratum (Plot size:5')		Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is < 3.0 ¹ (Denvide supportion
1. Bidens Fronclosa 2. Juneus offusus 3. Carex Scoparia	15 N FACUS 11 N OBL 3 N FACUS 2 N FAC	 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Definitions of Vegetation Strata: Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines - All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size:) 1.	= Total Cover	Community Type: <u>Scwb-shab</u> Hydrophytic PSS 2B Vegetation Present? Yes <u>k</u> No

Absolute Dominant Indicator

% Cover Species? Status

wetland W13

VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: ______30' _____)

US Army Corps of Engineers

Sa

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW , or FAC:

Compling	Doint	D	U
Sampling	Point:	_У	pro

5

____ (A)

Sampling Point: DZZ

DIL	·····							Sampling Point	DZZ
	ription: (Describe to	the depth				r confirm th	e absence of inc	licators.)	
Depth	Matrix			<u>ox Featu</u>	res			- ·	
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
	0.74	<u> </u>	1						
0-14	107R3/1	96	10423/8	4	C	n	5.0_		
	· · · · · · · · · · · · · · · · · · ·								
									
	<u> </u>				. <u></u>		<u> </u>		
		<u> </u>							
	······································			•	·				
	and a second structure constrained on the second or structure structure (second structure (second structure (se		۵						
						 d Cond Oneiu		: PL=Pore Lining, M=N	
	ncentration, D=Deplet	<u>ion, Rivi=R</u>	reduced Matrix, CS=	Covered	or Coate	d Sand Grain		for Problematic Hydri	
	naroutoror						maloutoro		
Histoso			Polyvalue B		ace (S8) (LRR R,		ck (A10) (LRR K, L, ML	
	Epipedon (A2) Histic (A3)		MLRA 1498 Thin Dark St)) (L RR R	, MLRA 149E	3) Coast Pi 5 cm Mu	rairie Redox (A16) (LRR icky Peat or Peat (S3) (L	K, L, R) RR K. L. R
Hydrog	en Sulfide (A4)		Loamy Muck	ky Minera	(F1) (LR	, R K, L)	Dark Su	rface (S7) (L RR K, L, M)	i
Stratifie Deplete	ed Layers (A5) ed Below Dark Surface	(A11)	Loamy Gley Depleted Ma		(F2)			e Below Surface (S8) (L k Surface (S9) (LRR K,	
Thick D	Dark Surface (A12)	(,,,,)	🔀 Redox Dark	Surface (F6)		Iron-Mar	nganese Masses (F12) (I	LRR K, L, R
Sandy Sandy	Mucky Mineral (S1) Gleyed Matrix (S4)		Depleted Da	irk Surfac essions (f	e (F7) =8)		Mesic Si	nt Floodplain Soils (F19) podic (TA6) (MLRA 144 /	(MLRA 149 A, 145, 149E
Sandy	Redox (S5)		, <u> </u>		-7		Red Par	ent Material (TF2)	
Surppe Dark S	ed Matrix (S6) urface (S7) (LRR R, MI	.RA 149B)					Other (E	allow Dark Surface (TF12 xplain in Remarks)	2)
_		,							
ndicators of	hydrophytic vegetation	and wetland	t hydrology must be c	present. ui	nless distu	irbed or probl	ematic.		
	ayer (if observed):						I		
Туре:	NONE	19. 1 1995							
Depth (inc	hes):	A	-				Hvdric Soil Pre	sent? Yes 📈	No
emarks:									
cinaika.									
				1					

1

Project/Site North America Park Town/County: West Seneca/Fri	e County_Sampling Date: 10 • 11 • 2019
	State: <u>New York</u> Sampling Point: <u>023</u>
Investigator(s): <u>Scott Livingstone & Tom Somerville</u>	
	ef (concave, convex, none): <u>Cantante</u> Slope (%): <u>< /</u>
Subregion (LRR or MLRA) LRRL Lat:	Long: Datum: <u>NAD83</u>
	SALT LOAM NWI classification: PSS/MOWN
Are climatic / hydrologic conditions on the site typical for this time	e of year? Yes 🔀 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significa	ntly disturbed? Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology natura	
SUMMARY OF FINDINGS : Attach site map showing sample	ng point locations, transects, important features, etc.
	Is the Sampled Area
Hydrophytic Vegetation Present? Yes <u>X</u> No _ Hydric Soil Present? Yes <u>X</u> No	
	1114
Wetland Hydrology Present? Yes <u>Yes</u> No No Remarks: (Explain alternative procedures here or in a separat	
ISOLATED MOWN SHR	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that	
	Stained Leaves (B9) Drainage Patterns (B10)
	Fauna (B13) Moss Trim Lines (B16)
	posits (B15) Dry-Season W ater Table (C2)
Water Marks (B1) Hydrog	en Sulfide Odor (C1) Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidize	d Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	ce of Reduced Iron (C4) Stunted or Stressed Plants (D1)
	Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
	uck Surface (C7) Shallow Aquitard (D3)
	Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No 🖌 Depth	alla
Water Table Present? Yes No Z Depth	
Surface Water Present? Yes No Depth Water Table Present? Yes No Depth Saturation Present? Yes No Depth Saturation Present? Yes No Depth	inches): <u>Succes</u> (Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aeria	l photos, previous inspections), if available:
Remarks:	
Terraina.	

$ \frac{1}{Parking Perind Stratum (Plot size: 15)}{PACW species x2 = PACW species x4 = $	6				Prevalence Index works	heet:
$ \frac{1}{Parking Perind Stratum (Plot size: 15)}{PACW species x2 = PACW species x4 = $	7				Total % Cover of:	Multiply by:
Saaling/Shub Stratum (Plot size: 15) 15 Y Free Y Ackets/S Gen s, face mission 15 Y Free 2 Gan s, face mission 15 Y Free 4 Gan s, face mission 8 N Free 5 Gan s, face mission 8 N Free 6 Gan s, face mission 8 N Free 7 Gan s, face mission 7 1 Remarks to the set of set			= Tota	al Cover		
Image: Product of the second seco	Sapling/Shrub Stratum (Plot size: 15')					
$ \frac{12}{2} \frac{1}{2} $			У	FACUS	FAC species	x 3 =
$\frac{\int G'(n') \int arn of num}{ $			- <u>-</u>		FACU species	x 4 =
Image: A market in the second seco	• · · · · · · · · · · · · · · · · · · ·		- <u>-</u>		UPL species	x 5 =
Prevalence Index = B/A = A B		12			Column Totals:	(A) (B)
3.		<u> </u>	· · · · ·		Prevalence Index =	B/A =
$\frac{5}{2} = \text{Total Cover}$ $\frac{5}{2} = \frac{5}{2} = \frac{5}{$					Hydrophytic Vegetation	Indicators:
$\frac{SS}{S} = Total Cover$ $\frac{SS}{S} = SCavS + SAvS$ $\frac{SS}{S} = SCavS + S$	~					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	<i>I</i>					
$\frac{1 \text{det} Statum}{2} (\operatorname{Plot} \operatorname{size} 5)$ $\frac{1 \text{det} Statum}{2} (\operatorname{Plot} 5)$ $\frac{1 \text{det} Statum}{2} (\operatorname{Plot} 5)$ $\frac{1 \text{det} Statum}{2} (\operatorname{Plot} 5)$			= Tot	tal Cover		
2. Agrist's stolarit Pera 18 Y FACW		15	,	Y OBL	4 - Morphological Ada	aptations ¹ (Provide supporting
Billons Fischiza 11 N 12 N 14 N 15 Care & Susparia 16 10 N 17 Pricu 18 11 N 16 10 N 17 Pricu N 18 Symphytic trick 10 19 Pricu 2 N 10 Care & Cernula 3 N 10 Statemarka 2 N 10 Care & Cernula 2 N 11 10 Care & Cernula 3 N 11 10 Care & Cernula 2 N 11 10 Care & Cernula 1 N 12 10 Care & Cernula 1 N 12 11 N Frecu Septemarka Septemarka 12 11 12 Septemarka Septemarka Septemarka 12 11 10 Septemarka Septemarka Septemarka	A 4			<u>, </u>		•
4. Care & Supporta 10 N FACW 5. Lythown Salitaria 7 N FACW 5. Lythown Salitaria 7 N FACW 6. Lythown Salitaria 7 N FACW 7. Bidlaws Cernva 3 N OEL 8. Symphy otrichum laberi planm 2 N FAC 8. Symphy otrichum laberi planm 2 N FAC 9. FAC conta 3 N OEL 9. FAC conta 7 N FAC conta 9. FAC conta 7 N FAC conta Septence 9. FAC conta 7 N FAC conta Septence Septence 10. Conta conta fill planma 2 N FAC conta Septence Septence 11. 2 3 <td< td=""><td></td><td></td><td>N</td><td></td><td></td><td></td></td<>			N			
5. Lythrwn Saltaria 7 N Fricu 3. Agrimpinia grypszala 5 N Fricu 3. Agrimpinia grypszala 5 N Fricu 7. Bidlen's cernul 3 N Oll 8. Symphy otrichum laber planum 2 N Fricu 9. The article relations of Vegetation Strata: Tree - Woody plants is in (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 9. The article relations of Vegetation Strata: Sapping/shrub - Woody plants less than 3 in DBH and greater than 3.28 ft (1 m) tail. 10. Carax.cum of Icentrate 1 N Frecu 12. 89 = Total Cover Woody Vine Stratum (Plot size: 30') 1	\sim	10	N	FACW		
S. $Agrin unit grups parts S. Agrin unit grups parts S N Free B. S. M. Apply attrictions S N Batter the state of the stat$	5. Lythrum Salitaria		N	FALW	Definitions of Vegetatio	n Strata:
7. Bidlens clerning s N Oll 8. Symphy otrichim 2 N Fac 9. The article form 2 N Fac 10. Tark accoment of the base 1 N Fac 11.	6. Agrimonia gryposcoala	5	N	FATCU		
8. Symphy otrichum 2 N FAC 9. The garla providence 2 N FAC 9. The garla providence 2 N FAC 10. Tare correction of the providence 1 N FAC 11. N FAC Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tail. 11. N FAC N FAC 12. Sapling/shrub - Woody plants less than 3.28 ft tail. Woody vines - All woody vines greater than 3.28 ft tail. 12. Sapling/shrub - Woody vines greater than 3.28 ft tail. Woody vines - All woody vines greater than 3.28 ft in height. 12. Sapling/shrub - Woody vines greater than 3.28 ft in height. Community Type: Scrub Shrub 2. Sapling/shrub - Woody vines greater than 3.28 ft in height. 3. Sapling/shrub - Woody vines greater than 3.28 ft in height. 4. Sapling/shrub - Woody vines greater than 3.28 ft in height. 9 Sapling/shrub - Woody vines - All woody vines greater than 3.28 ft in height. 2. Sapling/shrub - Woody vines - Scrub - Shrub - Myce All with - Woody vines - Strub - Shrub - Myce All woody vines - Strub - Shrub - Myce All woody vines - Strub - Shrub - Myce All with - Woody vines - Strub - Shrub - Myce All with - Myce All with - Myce All woody vines - Stru	7. Didens cernua	Ŷ	N	OBL		
9. Itegrate integrate integrates and greater than 3.28 ft (1 m) tail. 10. Tarex accom officiency into integrates into integrates into integrates. 11. Image: Im		2	N	FAL		
$\frac{11.}{22.}$ $\frac{11.}{32.}$	9. Fragaria virginiana	2	N	FACU		
11.	10. Taraxacum officinale		N	FREN		
Image: Series Shows Image: Series Shows 1. Image: Series Shows 2. Image: Series Shows 3. Image: Series Shows 4. Image: Series Shows 4. Image: Series Shows 4. Image: Series Shows Image: Series Shows Image: Series Shows A. Image: Series Shows Image: Series Shows Image: Series Shows A. Image: Series Shows Image: Series Shows Image: Series Shows A. Image: Series Shows Image: Series Shows <	11					
Woody Vine Stratum (Plot size:) 1.	12	-20				vines greater than 3.28 ft in
1.		=	= Total C	over		
2	Woody Vine Stratum (Plot size: 30')					
3	1	<u> </u>				
4 = Total Cover Vegetation Present? Yes K No Remarks: (Include photo numbers here or on a separate sheet.) Photo # <u>P25</u> Direction of Photo <u>South</u> Recently Brish hugged Wetland With	2				Community Type:	
4	3				Hydrophytic	PSS2B
== Total Cover Remarks: (Include photo numbers here or on a separate sheet.) Photo # <u>P25</u> Direction of Photo <u>South</u> placently Brish-hugged Wetland WIY	4.				Vegetation	
Remarks: (Include photo numbers here or on a separate sheet.) Photo # <u>P25</u> Direction of Photo <u>South</u> plecen thy Brish - hugged Wetland WIY	······································		= To	tal Cover	Present? Yes	NO
Photo # <u>P25</u> Direction of Photo <u>South</u> Recently Brish-hugged Wetland Wilf	Remarks: (Include photo numbers here or on a separate	sheet.)	== 10		1	
Recently Brish-hugged Wetland WIY	•	-	الاتر كميا	th		
wetland will			<u></u>			
wetland will						
wetland will						
wetland will		A .	4 1	Rod - hour	1	
wetland will		pleen	"Thy	לנייז אטוס	कु इ.स.	
	wetland	WIL				
	US Army Corps of Engineers				Northcentral and Northe	east Region - Version 2.0

Absolute Dominant Indicator % Cover Species? Status

Project Code: W11118a

1. ____

VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: ______30' _____)

3. _____

4. _____

5. ______

2._____

Sampling Point: 223

(A)

____ (B)

100%. (A/B)

5

5

Dominance Test worksheet:

Number of Dominant Species

Total Number of Dominant

Species Across All Strata:

Percent of Dominant Species

That Are OBL, FACW , or FAC:

That Are OBL, FACW, or FAC:

SOIL

Sampling Point: **D**23

Depth	N & m haise	-					ne absence of inc	
(inches)	Matrix Color (moist)	%	Color (moist)	lox Featu %	Type ¹	Loc ²	Texture	Remarks
B 9	164241.	95	104R511.		1000	***	54	
<u> </u>	- TOTRIT		104R576 104R576	30	<u>havene</u>	<u></u>		
8-16	10702311	-70	1041076	Star Reside	have	M	<u></u>	
					<u> </u>	<u></u>		
							Berlinkelsen ander and and and and and and an	
						. <u></u>		
¥								
								
							. <u></u>	
	oncentration, D=Deple	tion DM-	Reduced Matrix CS	=Covered	or Coater	Sand Grai	ns. ² l ocation	n: PL=Pore Lining, M=Matrix.
Hydric Soil			Neutreu Matrix, CO.	JUVEICU				for Problematic Hydric Soils ³ :
								·
	ol (A1) Epipedon (A2)		Polyvalue E MLRA 149		ace (S8) (L	.RR R,		uck (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R)
Black I	Histic (A3)		Thin Dark S	Surface (SS	9) (LRR R,	MLRA 149	B) 5 cm Mu	ucky Peat or Peat (S3) (LRR K, L, R)
Hydrog Stratifi	gen Sulfide (A4) ed Layers (A5)		Loamy Muc			R K, L)	Dark Su Polvvalu	rface (S7) (LRR K, L, M) ue Below Surface (S8) (LRR K, L)
Deplet	ed Below Dark Surface	e (A11)	Depleted M	atrix (F3)			Thin Da	rk Surface (S9) (LRR K, L)
Thick I Sandv	Dark Surface (A12) Mucky Mineral (S1)		C Redox Dark	< Surface (ark Surfac	F6) e (F7)		Iron-Mai Piedmoi	nganese Masses (F12) (LRR K, L, R) nt Floodplain Soils (F19) (MLRA 149B)
Sandy	Gleved Matrix (S4)		Redox Dep	ressions (F	-8)		Mesic S	podic (TA6) (MLRA 144A, 145, 149B)
Sandy Strippe	Redox (S5) ed Matrix (S6)						Red Par Verv Sh	rent Material (TF2) allow Dark Surface (TF12)
	Surface (S7) (LRR R, N	ILRA 149B)				Other (E	Explain in Remarks)
							la se atta	
³ Indicators of	f hydrophytic vegetatior	and wetlar	nd hydrology must be	present, ur	nless distu	rbed or prob	lematic.	
Restrictive L	ayer (if observed):		nd hydrology must be	present, ur	nless distu	rbed or prob		
	ayer (if observed):		nd hydrology must be	present, ur	nless distui	rbed or prob		
Restrictive L	ayer (if observed):		nd hydrology must be	present, ur	nless distui	rbed or prob		esent? Yes <u>×</u> No
Restrictive L	ayer (if observed):		nd hydrology must be	present, ur	nless distur	rbed or prob		esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur	hless distu	rbed or prob		esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur	nless distu	rbed or prob		esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur	nless distu	rbed or prob		esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur		rbed or prob		esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur		rbed or prob		esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur		bed or prob		esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>×</u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>></u> No
Restrictive L Type: Depth (inc	ayer (if observed):		nd hydrology must be	present, ur				esent? Yes <u>> No</u>

Project/Site North America Park	Town/County: West Sr	eneca/Erie County	Sampling Date:	10. 1	1-2019	
Applicant/Owner: <u>Nanco Assoc</u>				Samp	ling Point:	4
Investigator(s): <u>Scott Livingston</u>						
Landform (hillslope, terrace, etc.	AKE Plaza		onvox nono):	CONVEY	Slone (%):	
Subregion (LRR or MLRA) _LRF Soil Map Unit Name:	<u> {L</u> Lat:			- Augurt	Datum	<u>14D05</u>
•	-					ž
Are climatic / hydrologic conditio						. 1
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	? Ar	re "Normal Circum	nstances" present?	Yes 🚬 No
Are Vegetation, Soil	, or Hydrology	naturally problemati	c? (If needed, exp	lain any answers	in Remarks.)	
SUMMARY OF FINDINGS : At	tach site map showing	g sampling point loca	ations, transects, i	important featur	es, etc.	
Hydrophytic Vegetation Preser	nt? Yes	No 💉	Is the Sampled A			
Hydric Soil Present?		No	within a Wetlan		No <u>×</u>	
Wetland Hydrology Present?	Yes	No	If yes, optional W	Vetland Site ID:	NA	
Remarks: (Explain alternative						
UPLAND M	iown 31	I RUDI SCIL	UE F	AREA		
HYDROLOGY						
Wetland Hydrology Indicato	rs:			Second	lary Indicators (minin	num of two required)
Primary Indicators (minimum o	of one is required; check	(all that apply)		Surfa	ace Soil Cracks (B6)	
Surface Water (A1)		Water-Stained Leaves	s (B9)	Drair	nage Patterns (B10)	
High Water Table (A2)		Aquatic Fauna (B13)		Moss	s Trim Lines (B16)	
Saturation (A3)		Marl Deposits (B15)			Season W ater Table	(C2)
Water Marks (B1)		Hydrogen Sulfide Odd			rfish Burrows (C8)	al Imagany (C9)
Sediment Deposits (B2) Drift Deposits (B3)		Oxidized Rhizospher Presence of Reduced	-	· · -	ration Visible on Aeri ted or Stressed Plant	
Algal Mat or Crust (B4)		Recent Iron Reductio			morphic Position (D2)	
Iron Deposits (B5)		Thin Muck Surface (0		-	low Aquitard (D3)	
Inundation Visible on Aer	ial Imagery (B7)	Other (Explain in Re			otopographic Relief (I	04)
Sparsely Vegetated Cond					-Neutral Test (D5)	
Field Observations:						
Surface Water Present?	Yes No 🗡	_ Depth (inches):				
Water Table Present?	Yes No 🔀	_ Depth (inches):	V/A			
Saturation Present?	Yes No 🔀	_ Depth (inches):	<u>N/A</u> We	etland Hydrology	Present? Yes	No <u>/ × _</u>
(includes capillary fringe) Describe Recorded Data (strea	am gauge, monitoring v	vell, aerial photos, prev	vious inspections),	if available:		
Remarks:				<u></u>		

VEGETATION : Use	e scientific na	ames of plants.
------------------	-----------------	-----------------

Sampling	Point:	D24

Tree Stratum (Plot size: 30')	Absolut		nant Indicator es? Status	Dominance Test worksheet:
1. Pinus (Plot size: 30')	<u>% Cove</u> \8		FACU	Number of Dominant Species That Are OBL, FACW, or FAC:
2. Pros communis		 V	UPL	That Are OBL, FACW , or FAC: (A)
······································				Total Number of Dominant Species Across All Strata: 8 (B)
3				
4				Percent of Dominant Species That Are OBL, FACW, or FAC:34_ (A/B)
5				
6				Prevalence Index worksheet:
7		<u></u>		Total % Cover of: Multiply by:
	55	= Tota	l Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	. 8%.			FACW species x 2 =
1. Ryrus communis		<u> </u>	UPL	FAC species x 3 = FACU species x 4 =
2. Rhamous Cathartica		<u> </u>	FAC	UPL species x 4 =
3. Loniera tatarica	7	<u> </u>	FREU	Column Totals: (A) (B)
4				
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
		= Tot	al Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size:5')	<u></u>			3 - Prevalence Index is < 3.0 ¹
	15	S Y	FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Fragueria virginiana 2. Alliaria petiolata			Fred	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Pou pritensis		- Y	FACU	
		<u> </u>		1Indicators of hydric soil and wetland hydrology must
4. Ayrimonia any pose pala 5. Rosa multiflera	~ (N	FACU -	be present, unless disturbed or problematic.
5. Rosa multiflert	2	2	FACU	Definitions of Vegetation Strata:
6. Rubus alleghaniensis		_		Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7				at breast height (DBH), regardless of height.
8				Sapling/shrub - Woody plants less than 3 in. DBH
9			<u>.</u>	and greater than 3.28 ft (1 m) tall.
10			<u> </u>	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 3.28 ft in height.
	<u> 48</u> :	= Total Co	over	noight.
Woody Vine Stratum (Plot size: <u>30'</u>)				
1				
2				Community Type: Bryshy Clearry Land
3				Hydrophytic
4				Vegetation Present? Yes No
			al Cover	
Remarks: (Include photo numbers here or on a separate s	heet.)			
		oto <u>No (</u>	theast	
	-		0.16	el
	Rece	atly	Brish-hu	·99* ·

Depth	Matrix		Redo	x Featu	es				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks	
~ 1	1						and the second second		
0-11	104R4/2	100	······································		. <u></u>		<u> </u>	****	
11-16	10425/4	100					Sil		
			·		<u> </u>				
						<u></u>	<u> </u>		
			andraget, das seus des services presentes des la francées de la presentation de la mandada de la mandada de la						
vne: C=Co	oncentration, D=Deple	ation RM=5	Peduced Matrix CS=(Covered	or Coated	Sand Grain	s ² l ocation:	PL=Pore Lining, M=	Matrix
	ndicators:		reduced matrix, 00-	ouvered	<u>or obaled</u>	Ouria Oran		r Problematic Hyd	
Black I Hydrog Stratifie Deplet Thick I Sandy Sandy Sandy Strippe	ol (A1) Epipedon (A2) Histic (A3) Jen Sulfide (A4) ed Layers (A5) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, M		 Polyvalue Be MLRA 149B) Thin Dark Su Loamy Mucky Loamy Gleye Depleted Mai Redox Dark S Depleted Dar Redox Depre) Irface (SS y Mineral d Matrix trix (F3) Surface (k Surfac)) (LRR R, (F1) (LRR (F2) F6) ∋ (F7)	MLRA 149B	Coast Prai 5 cm Muck Dark Surfa Polyvalue Thin Dark Iron-Mang: Piedmont I Mesic Spo Red Paren Very Shall	k (A10) (LRR K, L, M irie Redox (A16) (LR ky Peat or Peat (S3) ice (S7) (LRR K, L, I Below Surface (S8) (Surface (S9) (LRR K anese Masses (F12) Floodplain Soils (F12) idic (TA6) (MLRA 14 t Material (TF2) ow Dark Surface (TF blain in Remarks)	R K, L, R) (LRR K, L, I (I) (LRR K, L) (LRR K, L, (URR K, L,) (MLRA 14 (A, 145, 14
estrictive L Type:	41 B &	and wetland	d hydrology must be pr -	resent, ur	iless distur	bed or proble		ent? Yes	No 🗡
Depth (inc									

Project/Site North America Park Town/County: West Seneca/	Erie County Sampling Date: 10.11.2019	
Applicant/Owner: <u>Nanco Associates LLC</u>	State: New York Sampling Point: D25	
Investigator(s): Scott Livingstone & Tom Somerville		
	elief (concave, convex, none): NONE Slope (%): 1	
Subregion (LRR or MLRA) <u>LRRL</u> Lat:	Long: Datum: NAL	183 Not 1. (N)
		· 16 (20 FM
	me of year? Yes No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology signifi	cantly disturbed? Are "Normal Circumstances" present? Yes	<u> </u>
Are Vegetation, Soil, or Hydrology nat	rally problematic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS : Attach site map showing sam	oling point locations, transects, important features, etc.	
Hydrophytic Vegetation Present? Yes <u>Yes</u> No		
Hydric Soil Present? Yes Xes No	within a Wetland? Yes X No No	
Wetland Hydrology Present? Yes <u>Yes</u> No Remarks: (Explain alternative procedures here or in a sepa	If yes, optional Wetland Site ID:	
#SOLATES MOWN SI	IRUS/SERES WETLAND	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators (minimum	of two required)
Primary Indicators (minimum of one is required; check all the		
	r-Stained Leaves (B9) Drainage Patterns (B10)	
	tic Fauna (B13) Moss Trim Lines (B16)	
1 /	Deposits (B15) Dry-Season W ater Table (C2) open Sulfide Odor (C1) Crayfish Burrows (C8)	1
	ogen Sulfide Odor (C1) Crayfish Burrows (C8) zed Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Ir	magery (C9)
	ence of Reduced Iron (C4) Stunted or Stressed Plants (D	
	nt Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)	•
	Muck Surface (C7) Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	r (Explain in Remarks) Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)	
Field Observations:	-11-0	
Surface Water Present? Yes No X Dept	n (inches): <u>N/P</u>	
Water Table Present? Yes No Dept	n (inches):	
Saturation Present? Yes X No Dept (includes capillary fringe)	n (inches): <u>SUNFA</u> CE Wetland Hydrology Present? Yes X	No
Describe Recorded Data (stream gauge, monitoring well, as	rial photos, previous inspections), if available:	
Remarks:		

6._____ Prevalence Index worksheet: 7._____ Total % Cover of: Multiply by: OBL species _____ x 1 = _____ _____ = Total Cover FACW species _____ x 2 = _____ Sapling/Shrub Stratum (Plot size: 15') FAC species _____ x 3 = _____ 1. Carnos radinosa 50 2. Fraxinus pennisyluanica FACU species _____ x 4 = _____ ____5 FACN UPL species _____ x 5 = _____ 3. _____ Column Totals: _____ (A) _____ (B) 4._____ Prevalence Index = B/A = _____ 5. Hydrophytic Vegetation Indicators: 6._____ _ 1 - Rapid Test for Hydrophytic Vegetation 7. ______ 2 - Dominance Test is >50% 55 = Total Cover ____ 3 - Prevalence Index is < 3.0¹ Herb Stratum (Plot size: __ 5') ____ 4 - Morphological Adaptations¹ (Provide supporting Scirpus atnounces 17 Ý OBL data in Remarks or on a separate sheet) _ Problematic Hydrophytic Vegetation¹ (Explain) FAREW 13 N Aunstis Stolonifern 2 Bidens cornua 12 N 031 3 Indicators of hydric soil and wetland hydrology must Agrimonia cirupose cula 10 N FACU be present, unless disturbed or problematic. _____ incus effusus 8 N ساگان 5 ____ Definitions of Vegetation Strata: М 8 OBL Schous cuperinus 6 Tree - Woody plants 3 in. (7.6 cm) or more in diameter {\\$ Euthamia grammifolia 7 FAC at breast height (DBH), regardless of height. 7. 7 8. Symphystrichmi later iflorum FAL-Sapling/shrub - Woody plants less than 3 in. DBH 2 2 and greater than 3.28 ft (1 m) tall. 9 Bidens Frondosa FACU Herb - All herbaceous (non-woody) plants, regardless _____ 10. of size, and woody plants less than 3.28 ft tall. 11. Woody vines - All woody vines greater than 3.28 ft in 12. _ height. 84 = Total Cover Woody Vine Stratum (Plot size: 30') 1._____ Community Type: SCNb- ShNb 2._____ pss2B 3._____ Hydrophytic Vegetation Yes X No 4. _____ Present? = Total Cover Remarks: (Include photo numbers here or on a separate sheet.) Photo # P27 Direction of Photo Mb (H Recently Brish-hogge! Wetland W15 Northcentral and Northeast Region - Version 2.0 US Army Corps of Engineers

Absolute Dominant Indicator

% Cover Species? Status

VEGETATION : Use scientific names of plants.

1._____

Tree Stratum (Plot size: _____30' _____)

2._____

3.______

5._____

Project Code: W11I18a

Sampling Point:

_ (A)

1W1 (A/B)

(B)

2

Dominance Test worksheet:

Number of Dominant Species

Total Number of Dominant

Species Across All Strata:

Percent of Dominant Species

That Are OBL, FACW , or FAC:

That Are OBL, FACW, or FAC:

SOIL

Depth	iption: (Describe t Matrix		Rede	ox Feature	es			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
5 5.		<u>^</u>					1 sa	
0-10	104241	95	1078518	5	Europe.	m	5.0	
115-11	LUMEL.	15	1. Sec. Els	any see		AR		
10-16	10425/1	61	107K216	Ally diver	kour		<u> 5:00</u>	
				<u> </u>	•••••••••			
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,								
<u> </u>								
	· · · · · · · · · · · · · · · · · · ·							
	aya a manana mangangangan garangan kanangan kanangan kanangan kanangan manangan sa s						, and a management of the state	
		- <u></u>						
		etion, RM=F	Reduced Matrix, CS=	Covered of	or Coated	Sand Grai		PL=Pore Lining, M=Matrix.
aric Soil l	ndicators:						indicators fo	r Problematic Hydric Soils ³ :
1 11 - 4	1 ((00) (1		0	
Histoso	i (A1) pipedon (A2)		Polyvalue Be MLRA 149B	elow Surfa	ce (S8) (L	.KK K,		(A10) (LRR K, L, MLRA 149B) rie Redox (A16) (LRR K, L, R)
	listic (A3)		Thin Dark Su) (LRR R.	MLRA 1498		y Peat or Peat (S3) (LRR K, L, R
Hydrog	en Sulfide (A4)		Loamy Muck				Dark Surfa	ice (S7) (LRR K, L, M)
Stratifie	d Layers (A5)		Loamy Gleye	ed Matrix (F2)			Below Surface (S8) (LRR K, L)
Deplete	ed Below Dark Surfac	e (A11)	Depleted Ma	itrix (F3)				Surface (S9) (LRR K, L)
Thick L Sandy J	ark Surface (A12) Mucky Mineral (S1)		Redox Dark				Iron-wany Piedmont	anese Masses (F12) (LRR K, L, R Floodplain Soils (F19) (MLRA 149
Sandy	Gleyed Matrix (S4)		Redox Depre				Mesic Spo	dic (TA6) (MLRA 144A, 145, 149E
Sandy	Redox (S5)				-,		Red Paren	nt Material (TF2)
Strippe	d Matrix (S6)						Very Shall	ow Dark Surface (TF12)
Dark Si	urface (S7) (LRR R, I	VLRA 149B))				Other (Exp	plain in Remarks)
ndiantara of	hydronhytic vocatetia	n and wattan	id hydrology must be p	recent un	loco dictur	had or probl	omotio	
			la nyulology musi be p	ieseni, un			cinduo.	
	ayer (if observed):							
Туре:	NoNi							1
Depth (inc	hes): 🔊	10					Hydric Soil Prese	ent? Yes <u>X</u> No
	nes)							
emarks:								
								·

Project/Site North America Park Town/County: West Seneca/Erie Col	unty Sampling Date: 10.11. Zo19
	New York Sampling Point: <u>D26</u>
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Sectio	
Landform (hillslope, terrace, etc.): LAKE PMIN Local relief (co	
Subregion (LRR or MLRA) Lat:	Long: Datum: <u>NAD83</u>
Soil Map Unit Name: NIAGARA SZET LOA	M, TILL SUBSHIM NWI classification:
Are climatic / hydrologic conditions on the site typical for this time of y	ear?Yes 🔜 🗶 No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly d	isturbed? Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology naturally pr	
SUMMARY OF FINDINGS : Attach site map showing sampling p	oint locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No 🗡	is the Sampled Area
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No	within a Wetland? Yes No
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate rep	
VPLAND SPRUCE STA	
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-Staine	ed Leaves (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Faur	
Saturation (A3) Marl Deposit	
Water Marks (B1)	
	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
	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 S	urface (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Expla	ain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No 🔀 Depth (inche	ns): <u>N/A</u>
Water Table Present? Yes No X Depth (inche	s): N/A
Saturation Present? Yes No K Depth (inche	es): MITA Wetland Hydrology Present? Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspections), if available:
Remarks:	
1	

	Absolute		ant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: <u>30'</u>)			s? <u>Status</u>	Number of Dominant Species
1. Puez abies				That Are OBL, FACW, or FAC: (A)
2			•••••	Total Number of Dominant 5
3				Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 20 1/ (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total	Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')			••••	FACW species x 2 =
1. (X NY FALEMOSA	9	У	FAL	FAC species x 3 =
Le le le le le compa			FACU	FACU species x 4 =
2. Lonicera tatarrea	$-\frac{o}{\zeta}$	N	6	UPL species x 5 =
3. Picca abies			UPL_	Column Totals: (A) (B)
4. taxinus americana		N	FACU	Durandance Index - B(A -
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
	27	= Tota	l Cover	2 - Dominance Test is >50%
Herb Stratum (Plot size: 5')				3 - Prevalence Index is < 3.0 ¹
1. Fraxinus americana	10	v	FACJ	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
2. Rubus alleghaniensis			FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
		 N	FACU	
3. Poa annua		- <u>1</u>	······	1Indicators of hydric soil and wetland hydrology must
4. Arotium lappa	<u> </u>	N	FACU	be present, unless disturbed or problematic.
5. Solidingo juncen	<u> </u>	10 	FACU	Definitions of Vegetation Strata:
6				Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7			. <u></u>	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) tall.
10				Herb - All herbaceous (non-woody) plants, regardless
11				of size, and woody plants less than 3.28 ft tall.
	<u></u>			Woody vines - All woody vines greater than 3.28 ft in
12	27 =	Tabal Ca	· ·····	height.
		Total Oc	NGI	
Woody Vine Stratum (Plot size: <u>30</u>)				
1			• •••••	community Type: Conifer Plantation
2	·			Community Type: Community Type:
3				Hydrophytic
4			<u> </u>	Vegetation Present? Yes No X
		= Tota	al Cover	
Remarks: (Include photo numbers here or on a separate	sheet.)			
Photo # <u>P28</u> Direct	tion of Phot	o <u>Sou</u>	<u>th</u>	

VEGETATION : Use scientific names of plants.

Sampling Point: D26

Depth (inches)		o the depth			confirm th	e absence of indicat	ors.)	
(interios)	Matrix Color (moist)	%	Color (moist)	x Features % Type ¹	Loc ²	Texture	Remar	ks
		70				Texture		
0-8	1one 4/2					5:0		
8-16	10412514	80	10TR 516	20 C	m			.,
		*****	Martin Andrew State Control (1997)					
					·		······································	
						2) (* 5)		
Type: C=Co lydric Soil I	oncentration, D=Deple Indicators:	etion, RM=I	Reduced Matrix, CS=	Covered or Coated	Sand Grain	Indicators for I	<u>_=Pore Lining,</u> Problematic H	
Deplet Thick I Sandy Sandy Sandy Strippe Dark S	ed Layers (A5) ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) ed Matrix (S6) Surface (S7) (LRR R, N	ILRA 149B	Depleted Ma Redox Dark 3 Depleted Dar Redox Depre	Surface (F6) rk Surface (F7) essions (F8)	rhed or proble	Thin Dark St Iron-Mangar Piedmont Fit Mesic Spodi Red Parent I Very Shallov Other (Expla	podplain Soils (F	R K, L) 12) (LRR K, L, R) 519) (MLRA 1498 144A, 145, 149B
	hydrophytic vegetatior ayer (if observed):	and wettar	na nyarology must be p					
Туре:	511							No X
D	ches):///	1				Hydric Soil Presen	t? Yes	No <u></u>

Project/Site North America Park Town/County: West Seneca/Erie	County Sampling Date:	10-11.2019
	ate: <u>New York</u>	Sampling Point:7
Investigator(s): <u>Scott Livingstone & Tom Somerville</u>		
Landform (hillslope, terrace, etc.): LAKE Plan Local relief		
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>CANANBATCUP</u> 5	Long:	Datum: <u>NAD83</u>
Are climatic / hydrologic conditions on the site typical for this time		
Are Vegetation, Soil, or Hydrology significant	ly disturbed?	Are "Normal Circumstances" present? Yes 🔀 No
Are Vegetation, Soil, or Hydrology natural	y problematic? (If needed, ex	plain any answers in Remarks.)
SUMMARY OF FINDINGS : Attach site map showing samplin	g point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes No >	/ is the Sampled	Area
Hydrophytic Vegetation Present? Yes No _> Hydric Soil Present? Yes No _>	<u>`</u>	
Wetland Hydrology Present? Yes No		Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate	report.)	
VPLAND SHRUBISCRUC	5 (mown) v	NITH SPARSE TREES
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that an	ylq(Surface Soil Cracks (B6)
Surface Water (A1) Water-St	ained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2) Aquatic F	auna (B13)	Moss Trim Lines (B16)
	oosits (B15)	Dry-Season W ater Table (C2)
	n Sulfide Odor (C1)	Crayfish Burrows (C8)
	Rhizospheres on Living Roo	
	e of Reduced Iron (C4) ron Reduction in Tilled Soils (C	Stunted or Stressed Plants (D1) C6) Geomorphic Position (D2)
	x Surface (C7)	Shallow Aquitard (D3)
	Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	,	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No 🗡 Depth (ir	iches):	
Water Table Present? Yes No X Depth (ir	iches):	
Saturation Present? Yes No Z Depth (ir	iches): <u>M/M</u> W	/etland Hydrology Present? Yes No
(includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial	photos, previous inspections)	, if available:
Remarks:		

Project	Code:	W11I18a
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VEGETATION : Use scientific names of plants.

	Absolute Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>30'</u>) 1. <u>(Cec More</u>)	<u>% Cover Species? Status</u> 30 Y FAC	Number of Dominant Species (A)
2		Total Number of Dominant Species Across All Strata:
3		
4		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
5		
6		Prevalence Index worksheet:
7		Total % Cover of: Multiply by:
	30 = Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')		FACW species x 2 =
1. Lonicera tatañca	30 Y FARU	FAC species x 3 =
2. Gyvstrum vulgare	12 Y FACU	FACU species x 4 =
3. Rosa multiflora	10 N FACU	UPL species x 5 = (A)
4. Phannows Cathorfica	4	Column Totals: (A) (B)
5		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
6		1 - Rapid Test for Hydrophytic Vegetation
7	55 = Total Cover	2 - Dominance Test is >50%
	<u> </u>	3 - Prevalence Index is < 3.0 ¹
Herb Stratum (Plot size:)	11 Y FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
1. Solidayo Canadensis		Problematic Hydrophytic Vegetation ¹ (Explain)
2. YUN WINNUL		
3. Solidayo juncea		Indicators of hydric soil and wetland hydrology must
4. Taraxacum officiale		be present, unless disturbed or problematic.
5. Symphyotrichum cricoides	7 N FACU	Definitions of Vegetation Strata:
6. Fragaria riginiana	7 N FACU	Tree - Woody plants 3 in. (7.6 cm) or more in diameter
7. Plantingo moior	H I FACU	at breast height (DBH), regardless of height.
8. Phlem patence	3 N FACU	Sapling/shrub - Woody plants less than 3 in. DBH
9		and greater than 3.28 ft (1 m) tall.
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 ft in
	60 = Total Cover	height.
Woody Vine Stratum (Plot size: 30')		
1		Community Type: Brisky Geared Land
2		
3		Hydrophytic Vegetation
4		Present? Yes No k
	= Total Cover	
Remarks: (Include photo numbers here or on a separate		
Photo # <u>930</u> Direct	ion of Photo <u>North</u>	
		1
	Recently Brish.	- hugger
	Ŷ	

Depth (inches)	Matrix		Dad	ox Features		he absence of indicator	- 1	
	Color (moist)	%	Color (moist)	% Type ¹	Loc ²	Texture	Remarks	
0-7	10724/3					£ 10		
	101. 113	100	Cole I.			<u> </u>		
1-16	10782514	83	10412516	<u>15 c</u>	m	<u> </u>		
				<u></u>				
	······································					<u>, , , , , , , , , , , , , , , , , , , </u>		
				······			<u></u>	
	- Name of Bellevin and Mark and Annual A					nan anna ann an an an an an an an an an		
 vpe: C=Co	ncentration, D=Deple	tion RM=	Reduced Matrix CS=	Covered or Coate	d Sand Gra	ins ² l ocation: PL=	Pore Lining, M=Matri	 X.
ydric Soil II			Reduced Matrix, OO	Sovered of Could			oblematic Hydric So	
Histoso	N (A1)		Polyvalue B	elow Surface (S8)		2 cm Muck (A1	0) (LRR K, L, MLRA ⁻	149B)
Histic E	Epipedon (A2)		MLRA 1498	3)		Coast Prairie F	Redox (A16) (LRR K, L eat or Peat (S3) (LRR	., R)
Hydrog	listic (A3) en Sulfide (A4)		Loamy Mucl	urface (S9) (LRR F ky Mineral (F1) (LF		Dark Surface (S7) (LRR K, L, M)	
Stratifie Deplete	ed Layers (A5) ed Below Dark Surface	• (A11)	Loamy Gley Depleted Ma	ed Matrix (F2) atrix (F3)			w Surface (S8) (LRR ace (S9) (LRR K, L)	K, L)
Thick D	Park Surface (A12) Mucky Mineral (S1)	(,	Redox Dark	Surface (F6) ark Surface (F7)		Iron-Manganes	e Masses (F12) (LRR dplain Soils (F19) (ML	K, L, F
Sandy (Gleyed Matrix (S4)			essions (F8)		Mesic Spodic (TA6) (MLRA 144A, 14	15, 149
Sandy I	d Matrix (S6)					Red Parent Ma	Dark Surface (TF12)	
Dark Su	urface (S7) (LRR R, M	ILRA 149B)	1			Other (Explain	in Remarks)	
			d hydrology must be r	present. unless dist	urbed or prot	lematic.		
Indicators of I	hydrophytic vegetation	and wetlan	a nyarology maar bo p			T		
	hydrophytic vegetation ayer (if observed):	and wetlan						
		and wetlan						. 18
estrictive La	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes No	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes No	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes <u>No</u>	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	C				Hydric Soil Present?	Yes No	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes <u>No</u>	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	E				Hydric Soil Present?	Yes <u>No</u>	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes <u>No</u>	×
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes <u>No</u>	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes <u>No</u>	<u>×</u>
estrictive La	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes <u>No</u>	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes No	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes <u>No</u>	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes No	<u>×</u>
estrictive La Type: Depth (incl	ayer (if observed): <u>へ)の</u> ん(。) /	and wetlan				Hydric Soil Present?	Yes <u>No</u>	X

Project/Site_North America Park_Town/County: We	est Seneca/Erie CountyS	ampling Date:	0.11.2019		
Applicant/Owner: <u>Nanco Associates LLC</u>			Sampling Point: <u>DZ8</u>		
Investigator(s): Scott Livingstone & Tom Somervi					
Landform (hillslope, terrace, etc.): <u>LAKE Pla</u>			NE Slope (%): 2		
Subregion (LRR or MLRA) <u>LRRL</u> Lat: Soil Map Unit Name: <u>NIAGARA</u>	more and a second w	_ Long:	Datum: <u>NAD83</u>		
		•		<u></u>	
Are climatic / hydrologic conditions on the site typic					
Are Vegetation, Soil, or Hydrology _	significantly disturbed?	Are "Norma	al Circumstances" present? Yes 🚬	<u>×_</u> No	
Are Vegetation, Soil, or Hydrology	naturally problematic	? (If needed, explain any a	answers in Remarks.)		
SUMMARY OF FINDINGS : Attach site map sh	owing sampling point locat	tions, transects, importar	<u>it features, etc.</u>		
Hudrophytic Vegetation Dress at 0		Is the Sampled Area			
Hydrophytic Vegetation Present? Yes _ Hydric Soil Present? Yes	No <u>×</u> No <u>×</u> _	within a Wetland?	Yes No 🗡		
	No <u>/</u>		ite ID://A		
Remarks: (Explain alternative procedures here		if yes, optional vvetiand S			
UPLAND MOWN	SHRUBISCH	EVB ARE	4 -}		
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 W ater Table (C2)		
Water Marks (B1)	— Hydrogen Sulfide Odo		Crayfish Burrows (C8)		
Sediment Deposits (B2)		es on Living Roots (C3) _	Saturation Visible on Aerial Imag	ery (C9)	
Drift Deposits (B3)	Presence of Reduced		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction		Geomorphic Position (D2)		
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C Other (Explain in Rer		Shallow Aquitard (D3) Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (B8)		-	FAC-Neutral Test (D5)		
Field Observations:		-			
	X Depth (inches): N	la			
Water Table Present? Yes No	Depth (inches): <u>N</u> Depth (inches): <u>N</u>	1p			
Saturation Present? Yes No	Depth (inches):	Vetland Hy	drology Present? Yes N	10 ×	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previ	ous inspections), if available	e:		
Remarks:					

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Project	Code:	W11I18a
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VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: 20')			ant Indicator s? <u>Status</u>	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1)				Number of Dominant Species That Are OBL, FACW , or FAC: (A)
2				
3				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
4				Percent of Dominant Species
5				That Are OBL, FACW , or FAC:(A/B)
6				Prevalence index worksheet:
7				Total % Cover of:Multiply by:
				OBL species x1 =
Sapling/Shrub Stratum (Plot size: 15')			0010	FACW species x 2 =
1. Pose multiflere		V	FACU	FAC species x 3 =
a .			FACU	FACU species x 4 =
2. Lonicera tatarica				UPL species x 5 =
3. taxinus americana	<u> </u>		Facu	Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				
6				Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
		= Tota	l Cover	3 - Prevalence Index is < 3.0^{1}
Herb Stratum (Plot size: <u>5'</u>)				4 - Morphological Adaptations ¹ (Provide supporting
1. Poa prutensis	20	<u> </u>	<u>FACU</u>	data in Remarks or on a separate sheet)
2. Soli dago Canadonsis	18_	<u> </u>	<u></u>	Problematic Hydrophytic Vegetation ¹ (Explain)
3. Agrimonia gry pose pula	3	<u>N</u>	FACU	Indicators of hydric soil and wetland hydrology must
4. Fragaria Virginiana		N	FACU	be present, unless disturbed or problematic.
5. Alliaria petiolata		N	FALL	Definitions of Vegetation Strata:
6. Carex Suparia		Ņ	FACW	-
7. Phragmites australis	2	p	FACW	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
9				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 tall.
11				Woody vines - All woody vines greater than 3.28 ft in
12	68 =	T-1-1 O-	·	height.
	=	Total Co	ver	
Woody Vine Stratum (Plot size: <u>30</u> ')				
1				Community Type: Brushy Cleared Land
2				Community Type: 010310 Clourer Carte
3	. <u> </u>		<u>.</u>	Hydrophytic
4				Vegetation Present? Yes No _X
		= Tota	al Cover	
Remarks: (Include photo numbers here or on a separate				
Photo # <u>P31</u> Direct	tion of Phot	o Nor	:th	-
		۵.		Bruh-hoggel
		ile	Lentry	014 ···))

\$28 Sampling Point:

color (moist) % Color (moist) % Type Loc ² Texture Remarks 0 -12 10 YR 5/4 10 10 YR 5/4 15 pm pm <td< th=""><th>IL.</th><th>A-1-0-04-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Sampling P</th><th><u>مند :oint</u></th><th>12</th></td<>	IL.	A-1-0-04-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-							Sampling P	<u>مند :oint</u>	12
color (moist) % Color (moist) % Type Loc ² Texture Remarks 0 -12 10 YR 5/4 10 10 YR 5/4 15 pm pm <td< th=""><th>rofile Desci</th><th>ription: (Describe te</th><th>o the depth</th><th>needed to docume</th><th>nt the ind</th><th>icator or</th><th>confirm th</th><th>he absence of ir</th><th>ndicators.)</th><th></th><th></th></td<>	rofile Desci	ription: (Describe te	o the depth	needed to docume	nt the ind	icator or	confirm th	he absence of ir	ndicators.)		
De-12 10 YR-514 100 JOYR-514 15 C m Image: constraint of the second s	Depth						~~., ,	/			
12.16 10.7K-5/4 76 10.7K-5/2 15 C m Image: constraint of the second s	nches)	Color (moist)	%	Color (moist)	%	Type'	Loc	Texture	Remark	<u>.S</u>	
12.16 10.7K-5/4 76 10.7K-5/2 15 C m Image: constraint of the second s											
12.16 10.7K-5/4 76 10.7K-5/2 15 C m Image: constraint of the second s	0-12	1042412	100					51			
	12.11	INVESTIC		Land She	. <	~		<u> </u>			
vee: C=Concentration. D=Depletion, RM=Reduced Matrix. CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix. vdric Soil Indicators: Indicators for Problematic Hydric Soils*: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, MLRA 149B) Black Histic (A3) Thin Dark Surface (S9) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (F3) Thin Dark Surface (F2) (LRR K, L, M) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Stripted Matrix (S4) Redox Dark Surface (F7) Distream of Hydrophytic Vegetation and wetland hydrology must be present, unless disturbed or problematic. strictire Layer (if observed): Type: Type: MJAA	16.16	107619	10	1071-16	15			<u></u>			
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Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, F) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, G) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 145 Sandy Redox (S5) Redox Depressions (F8) Red Parent Material (TF2) Very Shallow Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. strictive Layer (if observed): Type: Type: MOME Depth (inches): M/A	ydric Soil I	ndicators:						Indicators	s for Problematic Hy	dric Soils	*:
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Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 14 Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 145 Sandy Redox (S5) Red Parent Material (TF2) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type: NO Type: MAA Depth (inches): M/A Hydric Soil Present? Yes No	Deplete	ed Below Dark Surface	e (A11)			-6)		Thin D Iron-M	ark Surface (S9) (LRR anganese Masses (F12	K, L) 2) (LRR K. ¹	L. R
Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:	Sandy	Mucky Mineral (S1)		Depleted Da	ark Surface	e (F7)		Piedmo	ont Floodplain Soils (F1	19) (MLRA	149
Stripped Matrix (S6)Very Shallow Dark Surface (TF12)Other (Explain in Remarks)Other (Ex	Sandy Sandy	Gleyed Matrix (S4) Redox (S5)		Redox Depr	essions (F	8)		Mesic Red Pa	Spodic (TA6) (MLRA 1 arent Material (TF2)	44A, 145, 1	1496
ndicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. estrictive Layer (if observed): Type:	Strippe	d Matrix (S6)						Very S	hallow Dark Surface (T	'F12)	
estrictive Layer (if observed): Type: NONE Depth (inches): N/A Hydric Soil Present? Yes NoX	Dark Si	urface (S7) (LRR R, N	/LRA 149B)						(Explain in Remarks)		
estrictive Layer (if observed): Type: NONE Depth (inches): N/A Hydric Soil Present? Yes NoX											
estrictive Layer (if observed): Type: NONE Depth (inches): N/A Hydric Soil Present? Yes NoX											
Type: NONE Depth (inches): N/A Hydric Soil Present? Yes No X			n and wetlan	d hydrology must be p	present, un	less distur	bed or prob	lematic.			
Depth (inches): No			N°								
	Туре:	NON	tie-	_							ما
imarke:	Depth (inc	hes):	<u>A</u>					Hydric Soil P	resent? Yes	_ No	<u>×</u>
indiko.	emarks:										

Project/Site <u>North America Park</u>	Town/County: West	Seneca/Erie County S	Sampling Date	10.11.2019
Applicant/Owner: <u>Nanco Assoc</u>				Sampling Point: <u> </u>
		-		
Investigator(s): Scott Livingston				
				NONE Slope (%): 21
Subregion (LRR or MLRA) _ LRF	<u>RL</u> Lat:		Long:	Datum: NAD83
Soil Map Unit Name:AN	ANDAIGUA	a sitt lor	7,107	NWI classification: P55/MoUN
Are climatic / hydrologic conditio	ns on the site typical	for this time of year? Yes	s_ <u>X_</u> №	(If no, explain in Remarks.)
				Are "Normal Circumstances" present? Yes 🗶 No
				explain any answers in Remarks.)
SUMMARY OF FINDINGS : At	tach site map show	ing sampling point loca	tions, transed	cts, important features, etc.
		K	Is the Samp	led Area
Hydrophytic Vegetation Preser Hydric Soil Present?	nt? Yes <u>/</u> Yes <u>/</u>		within a We	atland? Yes X No
Wetland Hydrology Present?	Yes			LALI1
Remarks: (Explain alternative		<u>No</u>	If yes, option	nal Wetland Site ID:
SHRUB15CR	UD NE	f Grow J I Produced & Pro		
HYDROLOGY				
Wetland Hydrology Indicato	rs:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum o		ck all that apply)		Surface Soil Cracks (B6)
Surface Water (A1)		Water-Stained Leaves	s (B9)	Drainage Patterns (B10)
🔀 High Water Table (A2)	-	Aquatic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)	_	Marl Deposits (B15)		Dry-Season W ater Table (C2)
Water Marks (B1)	_	Hydrogen Sulfide Odd	or (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	-	Oxidized Rhizospher		
Drift Deposits (B3)	-	Presence of Reduced		Stunted or Stressed Plants (D1)
Algai Mat or Crust (B4)	-	Recent Iron Reductio		
Iron Deposits (B5)	-	Thin Muck Surface (C		Shallow Aquitard (D3) Microtopographic Relief (D4)
Inundation Visible on Aer		Other (Explain in Re	marks)	FAC-Neutral Test (D5)
Field Observations:	ave Sunace (Bo)			
Surface Water Present?	Vaa Na	Depth (inches):	V/A	
Water Table Present?	Yes <u> </u>	Depth (inches):	01	
Saturation Present?	$\frac{\text{Tes}}{\text{Yes}} \times \frac{\text{No}}{\text{No}}$	Depth (inches):	, Gener	Wetland Hydrology Present? Yes <u>X</u> No
(includes capillary fringe)				
Describe Recorded Data (strea	am gauge, monitoring	g well, aerial photos, prev	ious inspectio	ns), if available:
Remarks:				

Project Code: W11I18a

VEGETATION : Use scientific names of plants.

Tree Stratum (Plot size: 30')			nt Indicator ? Status	Dominance Test worksheet:	
	12		FACW	Number of Dominant Species 3 That Are OBL, FACW , or FAC:	(A)
2					(1)
				Total Number of Dominant Species Across All Strata:	(B)
3					(=/
4				Percent of Dominant Species That Are OBL, FACW, or FAC: _/W	/. (A/B)
5					
6				Prevalence Index worksheet:	
7	-			Total % Cover of: Multiply	
	16	<u> </u>	Cover	OBL species x 1 =	1
Sapling/Shrub Stratum (Plot size: 15')			64	FACW species x 2 = FAC species x 3 =	
1. Cornus racemosa		<u> </u>	FAL	FACU species x 4 =	
2. Fraxmus pennsylvanica		<u> </u>	_ Fricw	UPL species x 5 =	
3. Cornus amomun	10	N	FACW	Column Totals: (A)	
4. Franzila alous		<u>N</u> (<u>me</u>		
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegeta	tion
	51	_ = Total	Cover	2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5')				3 - Prevalence Index is < 3.0 ¹	
	20	Y	FACW	4 - Morphological Adaptations ¹ (Providential of the second seco	de supporting sheet)
2. Symphystrichum lateriflorum	12	- N	FAC	Problematic Hydrophytic Vegetation ¹	
		N	FACU		
3. Agrimónia gry pose pala	6	- <u>10</u> N		Indicators of hydric soil and wetland hydr	
4. <u>Risa multi Flora</u>		- <u>N</u>	FACU	be present, unless disturbed or problema	NIC.
5. Juneis tenuis	<u> </u>			Definitions of Vegetation Strata:	
6. Unoclea sensibilis	<u> </u>	<u>ч</u>	FACW	Tree - Woody plants 3 in. (7.6 cm) or more	in diameter
7. Bidens cornuc			<u>ØBL</u>	at breast height (DBH), regardless of hei	ght.
8. Germ canadense	2	<u>N</u>	FAC	Sapling/shrub - Woody plants less than 3	in. DBH
9				and greater than 3.28 ft (1 m) tall.	
10				Herb - All herbaceous (non-woody) plants	s, regardiess
11				of size, and woody plants less than 3.28	
12				Woody vines - All woody vines greater the	nan 3.28 ft in
	64=	Total Cov	er	height.	
Woody Vine Stratum (Plot size: 30')					
1					
2				Community Type: Scrub- Shut	<u>) </u>
				Drs 7	ß
3				Hydrophytic PS V Vegetation	
4				Present? Yes X No	
Remarks: (Include photo numbers here or on a separate s	sheet)	= 1 otal	Cover		
	ion of Phot	- C at	tF		
Photo # Directi	on of Phot	0 <u> </u>			
				_	
	AU	. , f	South- hug	14 e.l	
	Lecent	۳ (4	11	
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		Weth	and wi	6	

OIL								Sampling Point: 027
Profile Desc	ription: (Describe to	the depth n	needed to documer	nt the ind	icator or	confirm t	he absence of	indicators.)
Depth	Matrix			x Feature			— <u> </u>	Describe
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
6-2	10723/1	93	10 yreste	7	for the	<i>M</i>	5.5	
8-16	10YRSh	- 20	in alla					
6-16	<u></u>		10710318				<u>-9. k</u>	
	territe and the second s			****				
			······				<u></u>	
							<u> </u>	
Martin Barris (artist artist (artist							- PROVINE THE OPERATOR OF THE RECEIPTION	
Type: C=Co lydric Soil I	ncentration, D=Deplet	ion, RM=Re	educed Matrix, CS=0	Covered c	or Coated	Sand Grai	ins. ² Locat Indicato	ion: PL=Pore Lining, M=Matrix. rs for Problematic Hydric Soils ³ :
Black H Hydrog Stratifie Deplete Thick E Sandy Sandy Sandy Sandy Strippe	Jarrian (A2) Epipedon (A2) Histic (A3) En Sulfide (A4) Ed Layers (A5) Ed Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) urface (S7) (LRR R, ML		 Polyvalue Be MLRA 149B) Thin Dark Su Loamy Mucky Loamy Gleye ▲ Depleted Mat Redox Dark S Depleted Dar Redox Depre 	rface (S9) y Mineral (d Matrix (I trix (F3) Surface (F k Surface	(LRR R, (F1) (LRF F2) 6) (F7)	MLRA 149		Muck (A10) (LRR K, L, MLRA 149B) t Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L, M) alue Below Surface (S8) (LRR K, L) Dark Surface (S9) (LRR K, L) Manganese Masses (F12) (LRR K, L, R nont Floodplain Soils (F19) (MLRA 149I Spodic (TA6) (MLRA 144A, 145, 149E Parent Material (TF2) Shallow Dark Surface (TF12) (Explain in Remarks)
	hydrophytic vegetation	and wetland I	hydrology must be pr	esent, unl	ess distur	bed or prob	lematic.	
Restrictive L	ayer (if observed):							
Depth (inc	hes):	1A					Hydric Soil F	Present? Yes No 🗡
Remarks:								an a

Project Code: W11I18a

Project/Site North America Park_Town/County: West Seneca/Erie CountyS	ampling Date: 10.11.2019
Applicant/Owner: <u>Nanco Associates LLC</u> State: <u>New Yo</u>	
Investigator(s): <u>Scott Livingstone & Tom Somerville</u> Section, Townsh	
Landform (hillslope, terrace, etc.): LAKE Plain Local relief (concave, co	
Subregion (LRR or MLRA) <u>LRRL</u> Lat:	Long: Datum: <u>NAD83</u>
Subregion (LRR or MLRA) LRRL Lat: Soil Map Unit Name: NIAGARA SILT LOAM, 7	<u>7// 9JB3// NWI classification: N/A</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes	_ Ko (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 locat	ions, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	Is the Sampled Area
Hydric Soil Present? Yes No X	within a Wetland? Yes No 🔀
Wetland Hydrology Present? Yes No	If yes, optional Wetland Site ID: ルノム
Remarks: (Explain alternative procedures here or in a separate report.)	
UPLAND MOWN SHRUBISC	EVB AREA
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 W ater Table (C2)
Water Marks (B1) Hydrogen Sulfide Odo	
Sediment Deposits (B2) Oxidized Rhizosphere	
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4) Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (C	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rer Sparsely Vegetated Concave Surface (B8)	narks) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	1/0
Water Table Present? Yes No You Depth (inches):	
Saturation Present? Yes No Depth (inches):	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previo	bus inspections), if available:
Remarks:	

Project	Code:	W11I18a	
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Northcentral and Northeast Region - Version 2.0

EGETATION : Use scientific names of plants.		Sampling Point:
Tree Stratum (Plot size: 30')	Absolute Dominant Indicator % Cover Species? Status	Dominance Test worksheet:
l		Number of Dominant Species That Are OBL, FACW , or FAC:
l. 		Total Number of Dominant Species Across All Strata:
·		Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)
·		
·		Prevalence Index worksheet: Total % Cover of:Multiply by:
and a Oberto Chatter (Distail	= Total Cover	OBL species x 1 = FACW species x 2 =
apling/Shrub Stratum (Plot size: <u>15'</u>	• •	FAC species x 3 =
Frixilius americana		FACU species x 4 =
Cornus race mesa	12 Y FAC	UPL species x 5 =
Chammus Cotherfize		Column Totals: (A) (B)
		Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		1 - Rapid Test for Hydrophytic Vegetation
	<u> 43 </u> = Total Cover	2 - Dominance Test is >50%
erb Stratum (Plot size:5')		3 - Prevalence Index is < 3.0 ¹
Aurimonia composição la	17 Y FACU	4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Potentilla simplex	II N FACU	Problematic Hydrophytic Vegetation ¹ (Explain)
Agrostic dobrifera	10 N FACW	
Symphystrichum ericoides		1Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Eriyaron strigosus	5 N FACU	Definitions of Vegetation Strata:
Fragaria urginiana	5 N FACU	
Rubis alleghaniensis	Z N FACU	Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Dudy is comerata		
Phiem protense	I N FACU	Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
0		Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
1		Woody vines - All woody vines greater than 3.28 ft in
2	60 = Total Cover	height.
/oody Vine Stratum (Plot size: 30')		
		Community Type: Brushy Cleared land
·		Hydrophytic
		Vegetation Present? Yes No X
	= Total Cover	
Remarks: (Include photo numbers here or on a separa		
Photo # Dire	ection of Photo South	
	Recently Brith -	hogged
		<i>34</i>

Sampling Point: _______30

Sampling	Point:	030

Depth	Matrix			x Featur				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
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10-16	1048-714	80	1042516	<u>_/G</u>	<u> </u>	m	<u> 5. 1</u>	
			104 2571	15	Law	M		
						<u>_</u>		
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			•					•
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ype: C=Co	ncentration, D=Deple	tion, RM=	Reduced Matrix, CS=	Covered	or Coatec	Sand Gra	ins. ² Loca	ation: PL=Pore Lining, M=Matrix.
ydric Soil l	ndicators:						Indicate	ors for Problematic Hydric Soils ³ :
l l'ata a a	1 (4 4)					DD D	0	
Histoso Histic E	i (A1) pipedon (A2)		Polyvalue Be MLRA 149B		ace (S8) (L	.KK K,	2 cn Coa	n Muck (A10) (LRR K, L, MLRA 149B) st Prairie Redox (A16) (LRR K, L, R)
Black ⊢	listic (A3)		Thin Dark Su	irface (S9			B)5 cn	n Mucky Peat or Peat (S3) (LRR K, L, R)
	en Sulfide (A4) d Layers (A5)		Loamy Muck			R K, L)	Darl Polv	k Surface (S7) (LRR K, L, M) rvalue Below Surface (S8) (LRR K, L)
Deplete	d Below Dark Surface	(A11)	Depleted Ma	trix (F3)			Thin	Dark Surface (S9) (LRR K, L)
Thick D	ark Surface (A12)		Redox Dark				Iron-	-Manganese Masses (F12) (LRR K, L, R
	Mucky Mineral (S1)		i)enleted i)a	rk Surface	≤ (F7)		Piec	imont Floodolain Soils (F19) (MLRA 149
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Sandy Sandy	Gleyed Matrix (S4) Redox (S5)						Mes Red	sic Spodic (TA6) (MLRA 144A, 145, 149E Parent Material (TF2)
Sandy Sandy Sandy Sandy Strippe	Gleyed Matrix (S4)	LRA 149B	Redox Depre				Mes Red Very	sic Spodic (TA6) (MLRA 144A, 145, 149E
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NORTH AMERICA PARK

APPENDIX C - SITE PHOTOGRAPHS



<u>Photo 1</u>: Facing north. Depicts Stream 1 flowing north in the eastern portion of the site.



<u>**Photo 3:**</u> Facing north. Depicts the successional northern hardwood community at data point D2.



<u>Photo 5</u>: Facing north. Depicts the scrub-shrub community of wetland W2 at data point D4.



<u>Photo 2</u>: Facing west. Depicts the brushy cleared land community at data point D1.



<u>Photo 4</u>: Facing north. Depicts the scrub-shrub community of wetland W1 at data point D3.



<u>**Photo 6:**</u> Facing northwest. Depicts the brushy cleared land community at data point D5.



<u>Photo 7</u>: Facing west. Depicts the emergent marsh community of wetland W3 at data point D6.



<u>Photo 9</u>: Facing north. Depicts the invasive species marsh community of wetland W4 at data point D8.



<u>Photo 11</u>: Facing north. Depicts the successional northern hardwood community at data point D10.



<u>Photo 8</u>: Facing west. Depicts the successional northern hardwood community at data point D7.



<u>Photo 10</u>: Facing south. Depicts the invasive species marsh community of wetland W5 at data point D9.



<u>Photo 12</u>: Facing northeast. Depicts the successional old field community at data point D11.



Photo 13: Facing north. Depicts the scrub-shrub community of wetland W6 at data point D12.



<u>Photo 15</u>: Facing north. Depicts the scrub-shrub community of wetland W7 at data point D14.



<u>Photo 17</u>: Facing north. Depicts the scrub-shrub community of wetland W9 at data point D16.



<u>**Photo 14</u>**: Facing east. Depicts the brushy cleared land community at data point D13.</u>



<u>Photo 16</u>: Facing north. Depicts the emergent marsh community of wetland W8 at data point D15.



<u>Photo 18</u>: Facing west. Depicts the brushy cleared land community at data point D17.



Photo 19: Facing west. Depicts Stream 2 flowing west from the site.



Photo 21: Facing north. Depicts the scrub-shrub swamp community of wetland W11 at data point D19.



Photo 23: Facing northwest. Depicts the brushy cleared land community at data point D21.



<u>Photo 20</u>: Facing east. Depicts the scrub-shrub swamp community of wetland W10 at data point D18.



Photo 22: Facing east. Depicts the scrub-shrub swamp community of wetland W12 at data point D20.



Photo 24: Facing north. Depicts the scrub-shrub swamp community of wetland W13 at data point D22.

North America Park



Photo 25: Facing south. Depicts the scrub-shrub swamp community of wetland W14 at data point D23.



Photo 27: Facing north. Depicts the scrub-shrub swamp community of wetland W15 at data point D25.



Photo 29: Facing north. Depicts the eastern limits of the property from the transmission line ROW.



<u>Photo 26</u>: Facing northeast. Depicts the brushy cleared land at data point D24.



<u>Photo 28</u>: Facing south. Depicts the conifer stand community at data point D26.



<u>Photo 30</u>: Facing north. Depicts the brushy cleared land community at data point D27.



<u>Photo 31</u>: Facing north. Depicts the brushy cleared land community at data point D28.



<u>Photo 33</u>: Facing south. Depicts the brushy cleared land community at data point D30.



<u>Photo 32</u>: Facing south. Depicts the scrub-shrub swamp community of wetland W16 at data point D29.

NORTH AMERICA PARK

APPENDIX D - REFERENCES

North America Park

INFORMATIONAL REFERENCES USED BY EARTH DIMENSIONS INC.

- Andrus, R.E. 1980. Sphagnaceae (Peat Moss Family) of New York State. Contributions to a Flora of New York State III, R.S. Mitchell (Ed.), Bulletin No. 442, New York State Museum, Albany, New York. 89 pp.
- Benyus, J.M. 1989. The Field Guide to Wildlife Habitats of the Eastern United States. Fireside, Simon & Shuster, Inc., New York. 335 pp.
- Britton, N.L., and H.A. Brown. 1970. An Illustrated Flora of the Northern United States and Canada, Volumes 1, 2, and 3. Dover Publications, Inc., New York. 2052 pp.
- Brockman, C.F., R. Merrilees, and H.S. Zim. 1968. Trees of North America: A Field Guide to the Major Native and Introduced Species North of Mexico. Western Publishing, Inc. New York, New York. 280 pp.
- Brown, L. 1979. Grasses: An Identification Guide. Peterson Nature Library. Houghton Mifflin Co., Boston. 240 pp.
- Cobb, B. 1963. A Field Guide to the Ferns and Related Families. Houghton Mifflin Co., Boston. 281 pp.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. Laroe. 1979. Classification of Wetlands and Deep Water Habitats of the United States. U.S. Fish and Wildlife Service, Washington, D.C. FWS/OBS-79-31. 103 pp.
- Eggers, S.D., and D.M. Reed. 1997. Wetland Plants and Plant Communities of Minnesota and Wisconsin. Second Edition. U.S. Army Corps of Engineers, St. Paul District, Minnesota. 263 pp.
- Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. Technical Report Y-87-1, U.S. Army Corps of Engineers Waterways Experiment Station, Vicksburg, Mass. 100 pp. plus appendices.
- Hotchkiss, N. 1970. Common Marsh Plants of the United States and Canada. U.S. Department of the Interior, Bureau of Sport Fisheries and Wildlife, Washington, D.C., Resource Publication 93.
- Hurley, L.M. 1990. Field Guide to the Submerged Aquatic Vegetation of Chesapeake Bay. U.S. Fish and Wildlife Service, Chesapeake Bay Estuary Program, Annapolis, Maryland. 51 pp.
- Knobel, E. 1977. Field Guide to the Grasses, Sedges, and Rushes of the United States. Dover publications, Inc., New York. 83 pp.
- Little, E.L. 1980. The Audubon Society Field Guide to North American Trees (Eastern Region). Alfred A. Knopf, New York. 714 pp.

Magee, D.W. 1981. Freshwater Wetlands. University of Massachusetts Press, West Seneca. 245 pp.

Mitchell, R.S., and G.C. Tucker. 1997. Revised Checklist of New York State Plants. Contributions to a Flora of New York State IV, R.S. Mitchell (Ed.). Bulletin No. 490, New York State Museum, Albany, New York. 400 pp.

Munsell Color Chart. (Munsell Color 1975).

- National Wetland Inventory Maps. U.S. Department of the Interior, Fish and Wildlife Service, National Wetland Inventory, St. Petersburg, Florida. http://wetlandsfws.er.usgs.gov date visited: 2/4/2010
- Niering, W.C., and N.C. Olmstead. 1979. The Audubon Society Field Guide to North American Wildflowers (Eastern Region). Alfred A. Knopf, New York. 887 pp.
- New York State Code of Rules and Regulations (NYCRR). 1989. Protected Native Plants. NYCRR Part 193.3, June, 1989. New York State Department of Environmental Conservation.
- New York Natural Heritage Program. 2002. New York Rare Plant Status List, February, 1989. S.M. Young, (Ed.), New York State Department of Environmental Conservation and The Nature Conservancy publication. 26 pp.
- New York State Department of Environmental Conservation Freshwater Wetlands Maps, NYSDEC Environmental Resource Mapper, http://www.dec.ny.gov/imsmaps/ERM/viewer.htm
- Newcomb, L. 1977. Newcomb's Wildflower Guide. Little, Brown and Co., Boston. 490 pp.
- Ogden, E.C. 1981. Field Guide to Northeastern Ferns. Contributions to a Flora of New York State III, R.S. Mitchell (Ed.), Bulletin No. 444, New York State Museum, Albany, New York. 122 pp.
- Peattie, D.C. 1991. A Natural History of Trees of Eastern and North America. Houghton Mifflin Co., Boston. 606 pp.
- Peterson, RT., and M. McKenny. 1968. A Field Guide to Wildflowers of Northeastern and Northcentral North America. Houghton Mifflin Co., Boston. 420 pp.
- Petrides, G.A. 1972. A Field Guide to Trees and Shrubs. Houghton Mifflin Co., Boston. 428 pp.
- Prescott, G.W. 1969. How to Know the Aquatic Plants. Second Edition. William C. Brown Co., Dubuque, Iowa. 171 pp.
- Raynal, D.J., and D. J. Leopold. 1999. Landowner's Guide to State-Protected Plants of Forests in New York State. New York Center for Forestry Research and Development, SUNY-ESF, Syracuse, New York. 92pp.
- Reed, Porter B. Jr. 1988. National List of Plant Species that Occur in Wetlands: Northeast (Region 1). U.S. Fish and Wildlife Service, Washington, D.C. Biol. Rept. 88 (26.1). 112 pp.

- Reschke, C. 2002. Ecological Communities of New York State. New York Natural Heritage Program. NYSDEC, Latham, N.Y. (2nd Ed.) 136 pp.
- Soil Conservation Service. 1975. Soil Taxonomy: A Basic System of Soil Classification for Making and Interpreting Soil Surveys. U.S.D.A., Soil Conservation Service, U.S. Handbook 436.
- Soil Conservation Service. 1988. New York Hydric Soils and Soils with Hydric Inclusions, revised July, 1988, Soil Conservation Service, Syracuse, New York, Technical Guide, Section II. 23 pp.
- Simonds,R.L., and H.H. Tweedie. 1978. Wildflowers of the Great Lakes Region. Chicago Review Press, Chicago. 96 pp.
- Symonds, G.W.D. 1958. The Tree Identification Book. Quill, New York. 272 pp.
- Symonds, G.W.D. 1963. The Shrub Identification Book. William Morrow & Co., New York. 379 pp.
- Tiner, R. W. Jr. 1988. A Field Guide to Nontidal Wetland Identification. Maryland Department of Natural Resources and U.S. Fish and Wildlife Service Cooperative Publication. Maryland Department of Natural Resources, Annapolis, Maryland. 283 pp. + 198 color plates.
- United States Department and Agriculture & the Natural Resources Conservation Service (USDA, NRCS).Soil Conservation Service Soil Survey of Erie County, New York. U.S.D.A., Soil Conservation Service. 1986 http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx
- USDA, NRCS. 2009. The PLANTS Database (http://plants.usda.gov, 12/14/09). National Plant Data Center, Baton Rouge, LA 70874-4490 USA.

United States Geological Survey maps, Denver, Colorado. Buffalo SE Quadrangle/2002DeLorme.

- U.S. Army Corps of Engineers. 2009. Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, ed. J. S. Wakeley, R. W. Lichvar, and C. V. Noble. ERDC/EL TR-09-19. Vicksburg, MS: U.S. Army Engineer Research and Development Center.
- U.S. Fish and Wildlife Service, A Wetlands and Deepwater Habitats Classification. May 3, 2002, http://www.nwi.fws.gov/. June 16, 2002.
- Zander, R.H., and G.J. Pierce. 1979. Flora of the Niagara Frontier Region. Bulletin of the Buffalo Society of Natural Sciences, Vol. 16 (Suppl. 2), Buffalo, New York. 110 pp

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