

## Wetland Delineation Report Dzus Fastener Company, Inc. (152033) West Islip, New York

## Operable Unit 3 – Willetts Creek Area & Operable Unit 4 - Lake Capri

#### Prepared for

New York State Department of Environmental Conservation Division of Environmental Remediation 625 Broadway, 12<sup>th</sup> Floor Albany, New York 12233-7012



#### Prepared by

EA Engineering, P.C. and Its Affiliate EA Science and Technology 6712 Brooklawn Parkway, Suite 104 Syracuse, New York 13211 (315) 431-4610

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#### LIST OF ACRONYMS AND ABBREVIATIONS

ac Acres

**AOR** Area of review

Below ground surface bgs

EA EA Engineering, P.C. and its Affiliate EA Science and Technology

**FAC** Facultative

FACU Facultative upland **FACW** Facultative wetland

inch(es) in.

1f linear feet

NAD North American Datum of 1983

No.

Natural Resource Conservation Service **NRCS** 

**NYSDEC** New York State Department of Environmental Conservation

National Wetlands Inventory NWI

OBL Obligate wetland

OHWM Ordinary high water mark

OU Operable unit

**PEM** Palustrine Emergent PFO Palustrine Forested

RD Remedial design

WA Work assignment

WET Wetland

Waters of the United States **WUS** 

UPL **Upland** 

United States Army Corps of Engineers **USACE USFWS** United States Fish and Wildlife Service

United States Geological Survey **USGS** 

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#### 1. INTRODUCTION

EA Engineering, P.C. and its affiliate EA Science and Technology (EA), under Contract to the New York State Department of Environmental Conservation (NYSDEC) (Work Assignment Number [No.] D007624-33) was tasked to perform a Wetland Delineation at the Dzus Fastener Company, Inc. site (NYSDEC Site Number No. 152033) located in West Islip, Suffolk County, New York. The site is listed as a Class "2" in the State Registry of Inactive Hazardous Waste Sites (list of State Superfund sites); this site represents a significant threat to public health or the environment, and action is required. The site consists of four operable units (OUs) defined as follows:

- OU1 consisted of the leaching pools (the source) and areas of soil contamination at the facility. A Record of Decision (ROD) for OU1 was issued for this OU by NYSDEC in March 1995. The selected remedy consisted of *in situ* stabilization/solidification for onsite soils containing cadmium at concentrations greater than 10 parts per million (ppm).
- OU2 is comprised of the offsite contamination including sediment and water contamination for a section of Willetts Creek and Lake Capri. A ROD for OU2 was issued for this OU by NYSDEC in October 1997. The selected remedy included dredging, dewatering, and offsite disposal of contaminated sediments from Lake Capri; excavation and offsite disposal of sediment from Willetts Creek exceeding 9 ppm.
- OU3 encompasses the area of offsite impacted wetlands located behind a strip mall on Union Boulevard and inclusive of the Willetts Creek channel upstream of Lake Capri, found to be contaminated during routine post-remedial action effectiveness sampling (AECOM 2016).
- OU4 encompasses Lake Capri which is located downstream of Willetts Creek which has been included into the remedial design in 2018.

OU3 and OU4 are the focus of this Wetland Delineation Report which includes Lake Capri and the section of Willetts Creek upstream of the Lake.

The WA is being conducted under the NYSDEC State Superfund Standby Contract (WA Number (No.) D007624-26). In order to obtain the necessary permits associated with remedial activities at the site, EA conducted a review and delineation of the wetlands and/or Waters of the United States (WUS) located within and adjacent to OU3 and OU4.

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#### RESEARCH OF AVAILABLE DOCUMENTS 2.

#### 2.1 SITE BACKGROUND

The subject site is located at 425 Union Boulevard, West Islip, Suffolk County, New York. The site is approximately 4 acres in size and is located in a mixed residential, commercial, and industrial area (Figure 1). The site is bounded by Union Boulevard to the south, the former Dzus Fastener Company, Inc. facility and Beach Street to the west, and Long Island railroad tracks to the north. Immediately to the east of the site is Willetts Creek which flows south into Lake Capri, an 8-acre man-made lake. Lake Capri drains into the tidal portion of Willetts Creek through a culvert located under Montauk Highway (Figure 2). In its course, Willetts Creek flows past the Beach Street Middle School and the West Islip Senior High School, both on the creek's west bank. From the Dzus property down to the tidal portion of Willetts Creek, the east bank of the creek is surrounded by low-lying private residential properties. The west bank, beyond the schools, is also lined by private residences.

Prior to conducting the wetland delineation in the field, relevant site-specific data for the habitat evaluation area was reviewed to identify the likely location of potential wetlands and streams.

#### 2.2 UNITED STATES GEOLOGICAL SURVEY TOPOGRAPHIC MAP

The United States Geological Survey (USGS) Topographic Map for the AOR (Figure 3) was used as a reference to identify possible wetlands and waterways on the property. Topographic maps identify elevations, forested areas, streams, ponds, roads and structures. The USGS Topographic Map depicts the majority of the riparian area as developed with a single blue-line stream down the center of the AOR and one open water feature on the southern portion of the AOR. Willetts Creek is identified on the USGS Topographic Map as a blue-line stream and the open water feature is identified as Lake Capri.

#### SOIL SURVEY INFORMATION

The online Natural Resource Conservation Service's (NRCS) Web Soil Survey for Suffolk County was reviewed for the AOR (Figure 4). The Soil Survey identifies three soil mapping units within the AOR and are identified in Table 1. According to the Soil Survey, no hydric soil units occur within the AOR.

Table 1 Area of Review Soils

Soil – Mapping Unit	Symbol	Hydric Soil
Cut and fill land, gently sloping	CuB	Not Hydric
Riverhead and Haven soils, graded, 0-8 percent slopes	RhB	Not Hydric
Urban land	Ur	Not Hydric
Source: Adapted from the United States Department of A	Agriculture (NRC	CS 2018)

#### 2.4 NATIONAL WETLAND INVENTORY MAP

EA's environmental scientists reviewed wetland data from the United States Fish and Wildlife Service's (USFWS) National Wetlands Inventory (NWI) Mapper. The NWI Map (Figure 5) identifies four NWI wetlands within the AOR, which are each classified with a Cowardin designation. Willetts Creek is identified as a riverine wetland on the NWI map and Lake Capri is identified as a palustrine unconsolidated bottom wetland, while the remaining two wetlands are identified as forested wetlands. Table 2 provides a list of the NWI wetland types identified within the AOR.

Table 2 Area of Review NWI Wetland

NWI Code	Cowardin Designation	
PFO1C	Palustrine, Forested, Deciduous, Seasonally Flooded	
PUBHh	Palustrine Unconsolidated Bottom, Permanently Flooded, Diked/Impounded	
R2UBH	Riverine, Lower Perennial, Unconsolidated Bottom, Permanently Flooded	
Source: Adapted from the NWI Map (USFWS 2018)		

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#### 3. METHODOLOGY

The wetland delineation was conducted in accordance with the "Routine Determination" procedures outlined in the 1987 Corps of Engineers Wetland Delineation Manual (Environmental Laboratory 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0) (Environmental Laboratory 2012). This approach is based on the presence of three parameters (i.e., wetland hydrology, hydric soils, and hydrophytic vegetation) including indicators, delineation guidance, and other information that is specific to the Northcentral/Northeast Region. The United States Army Corps of Engineers (USACE) technical guidance for identifying wetlands requires that a positive wetland indicator be present for each of the three identified parameters except in limited instances identified as an atypical situation.

#### 3.1 HYDROPHYTIC VEGETATION

Hydrophytic vegetation is defined in the USACE manual as a community of macrophytes that occurs in areas where inundation or soil saturation is either permanent or of sufficient frequency and duration to influence plant occurrence. A plant-community approach to evaluate vegetation is used; and therefore, hydrophytic vegetation decisions are based on the community of plant species growing in a particular area rather than the presence or absence of particular indicator species. Common wetland plant species have been categorized regionally by the USACE in the 2016 National Wetland Plant List (Lichvar, 2016). Each plant is classified into one of five categories as follows:

- Obligate (OBL) = Greater than 99 percent estimated probability of occurring in wetlands.
- Facultative Wetland (FACW) = 67 to 99 percent estimated probability of occurring in wetlands.
- Facultative (FAC) = 34 to 66 percent estimated probability of occurring in wetlands.
- Facultative Upland (FACU) = 1 to 33 percent estimated probability of occurring in wetlands.
- Upland (UPL) = less than 1 percent estimated probability of occurring in wetlands.

Plants that have an indicator status of OBL, FACW, or FAC are considered to be typically adapted for life in anaerobic soil conditions. When the dominant species in a plant community are typically adapted for life in anaerobic soil conditions, hydrophytic vegetation is present. Several indicators may be used to determine whether hydrophytic vegetation is present on a site; however, the presence of a single individual of a hydrophytic species does not mean that hydrophytic vegetation is present.

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Evaluation of the vegetation begins with a rapid field test for hydrophytic vegetation to determine if there is a need to collect more detailed vegetation data. If the area is not dominated solely by OBL and FACW species, the standard dominance test is performed to determine if more than 50 percent of the dominant species are OBL, FACW, or FAC. Some wetland plant communities may not be considered hydrophytic based only on dominant species. Therefore, in those cases where indicators of hydric soil and wetland hydrology are present, the vegetation would be reevaluated with the prevalence index taking into account non-dominant plant species as well. A plant community is considered hydrophytic if one of these three criteria is met.

#### 3.2 HYDRIC SOILS

Hydric soils are soils that are saturated, ponded, or flooded long enough during the growing season to develop anaerobic conditions in the upper portion of the soil column (typically within the upper 18 inches [in.]). The prolonged presence of water results in the chemical reduction of elements, particularly iron and manganese. Reduced soils often exhibit a gray (or gleyed) color that reflects either the leaching of elements or the presence of reduced elements (again, generally iron and manganese).

Hydric soils are often characterized by bright mottles, sometimes called redoximorphic features. Mottles are an indication of incomplete saturation. They typically represent isolated pockets where elements (mainly iron) have remained oxidized. Another feature of hydric soils is a low matrix chroma in the diagnostic zone, which is typically identified as the upper 18 in. of the soil layer, but may vary. For mineral hydric soils, the diagnostic zone typically must have a matrix chroma of two or less (for soils with mottles), or a matrix chroma of one or less (for soils without mottles). To make this determination, soil cores are collected in the field in suspected wetland areas and the soil colors are compared to a Munsell Soil Color Chart (Kollmorgen Instruments Corporation 1988). Other examples of field indicators for hydric soils include, but are not limited to, high organic content, histic epipedons, sandy redox, and/or depletions and are defined in the Regional Supplement to the Wetland Delineation Manual.

#### 3.3 WETLAND HYDROLOGY

Wetland hydrology supplies the moisture required to support wetland vegetation and also creates the conditions necessary for the formation of hydric soils. Primary indicators of wetland hydrology include, but are not limited to, observed inundation or saturation, watermarks, drift deposits, sediment deposits, and water-stained leaves. Secondary indicators of wetland hydrology include, but are not limited to, drainage patterns, soil cracks, crayfish burrows, and the FAC-Neutral test. The FAC-Neutral test involves comparing the number of OBL and FACW plant species to the number of FACU and UPL plant species, with FAC species being neutral. If 50 percent or more of the plant species are OBL or FACW, the FAC-Neutral test is considered a secondary indicator of wetland hydrology. An area must contain at least one primary indicator or two secondary indicators of wetland hydrology for the criterion of wetland hydrology to be met.

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#### 3.4 STREAM CHANNELS

In addition to identifying wetlands, stream channels were flagged that would likely be considered jurisdictional stream channels were identified by the presence of a defined bed and bank, as well as a defined ordinary high-water mark (OHWM). Furthermore, identified stream channels were classified into one of three categories: perennial stream channels that typically flow year-round, intermittent stream channels that only flow seasonally, and ephemeral stream channels that typically flow less than seasonally. Ephemeral channels receive hydrology from surficial sources such as runoff from surrounding uplands during and immediately following precipitation events and/or snow melt (i.e., do not have a direct connection to groundwater and are not hydraulically connected to wetlands). Desktop information such as USGS maps and other materials were used to assist in classifying stream channels in addition to observations made during the site visits.

#### 3.5 FIELD DATA COLLECTION

Locations for collection of formal data points and associated data forms were established onsite to evaluate the presence or absence of jurisdictional wetlands/waterways and to demonstrate the typical characteristics of uplands and wetlands along the line of delineation. Surrounding vegetative species and hydrologic indicators were observed at the sample locations. EA personnel collected soil to a depth of approximately 16 in. or until refusal was encountered to observe soil conditions and classify the soil as either hydric or non-hydric. Routine wetland determination data sheets were used to summarize observations on vegetation, soils, and hydrology for both the wetland and upland sample plots. Copies of these Wetland Data Sheets are included in Appendix A. Additionally, onsite photographs of the wetlands and streams identified were collected in the field and are included in Appendix B. In addition to the formal data point locations depicted on the Wetland Delineation Maps, soils and vegetation were routinely assessed along the wetland boundary to guide the placement of wetland flagging. Although data forms were not completed at these locations the observations of soil samples and rapid vegetation calculations along with presence or absence of hydrology were used to determine the boundary of wetlands throughout the site.

#### 3.6 FIELD DELINEATION

On 11 and 12 March 2018, EA's wetland scientist and engineer performed a field delineation of the proposed project area and immediate surroundings (defined at the AOR) in order to evaluate whether wetlands and/or waterways were present at the project site. A second site visit was conducted on 14 September 2018 to delineate the area of Lake Capri which was added to the remedial design after the initial site visit. The field delineation consisted of identifying the limits of the wetlands and waterways with pink and black flagging, which were numbered sequentially. Wetland flag locations were located in the field with a handheld Trimble® GeoXT<sup>TM</sup> GPS unit with sub-meter horizontal accuracy and collected in the North American Datum of 1983 (NAD83), New York West State Plane Coordinate System. The field-mapped wetland/upland boundaries are shown on the Wetland Delineation Maps. Table 3 presents a summary of systems identified. Figure 6 provides an overview of Figures 7-12 for the mapped delineated features.

Table 3 Systems Identified Within the Area of Review

Systems	Type	Size (ac)	Length (lf)
Wetland A	Forested Wetland	0.71	_
Wetland B	Forested Wetland	0.08	_
Wetland C	Forested Wetland	0.04	_
Wetland D	Forested Wetland	0.01	_
Wetland E	Forested Wetland	0.39	_
Wetland F	Emergent Wetland	0.27	_
Wetland G	Emergent Wetland	0.06	_
Wetland H	Forested Wetland	0.04	_
Lake Capri	Open Water	7.91	_
Stream #1	Perennial Stream	2.15	4,033
Stream #2	Intermittent Stream	0.01	165
ac – acres lf – linear feet	;		

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#### 4. SYSTEMS IDENTIFIED

#### 4.1 STREAM #1

Stream #1 was identified as a perennial channel originating at the northern end of the AOR from a large culvert. Stream #1 flows in a southerly direction through the AOR for approximately 4,033 feet before contributing to the northern end of Lake Capri. This stream is depicted as a blue-line stream on USGS Maps and is identified as Willetts Creek. EA's wetland scientists observed a defined bed and bank and an OHWM within the limits of the stream channel throughout the entire AOR and has an average estimated base flow less than 1 cubic foot per second, based on an installed pressure transducer monitored between March and May 2018. Multiple wetlands were identified along Stream #1, within the AOR and described in the following sections. Stream #1 was flagged in the field along the OHWM and depicted on the Wetland Delineation Maps.

#### 4.2 WETLANDS A, B, D, AND E

Wetlands A, B, D, and E were identified as forested wetlands located directly along the banks of Stream #1. Wetlands A and B are located along the northern portion of the AOR, Wetland D is located on the southern portion of the AOR, and Wetland E is located on the central portion of the AOR. These wetlands were identified along lower benches along the stream channel and generally followed the toe of the slope along the urbanized areas to the east and west.

The primary source of hydrology for these four wetlands appear to be from groundwater. These forested wetlands consist of predominantly hydrophytic vegetation including red maple (*Acer rubrum*), sweetgum (*Liquidambar styraciflua*), coastal sweet pepperbush (*Clethra alnifolia*), highbush blueberry (*Vaccinium corymbosum*), and skunk cabbage (*Symplocarpus foetidus*). The soil matrix within this area had a chroma value of two or less as well as redox features in the matrix. Wetland hydrology indicators within these four wetlands included saturated soils, water marks on trees, inundation, drainage patterns, and water stained leaves. These four wetlands were identified as directly abutting Stream #1.

These four wetlands are located between the existing stream and the upland urbanized areas. In general, the upland/wetland interface along the private properties and schools included a 1-3 foot slope and abrupt change in vegetation cover. The upland areas along the wetland interface consisted primarily of mowed lawns dominated by non-hydrophytic vegetation (common dandelion, white and red clover, fescue species, etc.).

#### 4.3 WETLAND C

Wetland C is located on a low bench feature along the left bank of Stream #1 on the southern end of the AOR. Wetland C was identified as a narrow, forested wetland. Wetland C is dominated by red maple and sweet gum in the overstory with little to no understory with the exception of a dense stand of common reed (*Phragmites australis*). Wetland C appears to receive hydrology from surficial runoff from the surrounding residential properties as well as flood flow from

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Stream #1. The soil within Wetland C had a chroma value of 2 with redox features around the pore linings.

Wetland hydrology indicators within Wetland C included saturated soils and drainage patterns. Wetland C was identified as a forested wetland directly abutting Stream #1. This wetland is bound by upland mowed residential yards to the east and Stream #1 to the west.

#### 4.4 WETLAND F

Wetland F is located on the central portion of the AOR, along the left and right banks of Stream #1. Wetland F was identified as an emergent wetland. Wetland F is dominated a dense stand of common reed. Wetland F appears to receive hydrology from surficial runoff from the surrounding residential properties as well as flood flow from Stream #1. The soil within Wetland F had a chroma value of 2 with redox features around the pore linings. Wetland hydrology indicators within Wetland F included oxidized rhizospheres on living roots and drainage patterns. Wetland F was identified as an emergent wetland directly abutting Stream #1.

This wetland is located on a low benchlike feature along the stream with high steep slopes along the wetland/upland interface. The slopes along the wetland edge were dominated by common reed but lacked hydrologic indicators and did not contain hydric soils.

#### 4.5 STREAM #2

Stream #2 was identified as an intermittent channel originating from a small concrete culvert near the northwest corner of Lake Capri along Ivy Court. Stream #2 flows in a southerly direction through the AOR for approximately 165 feet before contributing to the northwestern corner of Lake Capri. This stream is depicted as a portion of the open water lake on USGS Maps and is identified as Lake Capri. EA's wetland scientists observed a defined bed and bank and an OHWM within the limits of the stream channel. At the time of the site visit no baseflow was observed in the channel. Two wetlands (Wetland G and H) were identified as directly abutting Stream #2, within the AOR and described below. Stream #2 was flagged in the field along the OHWM and depicted on the Wetland Delineation Maps.

#### 4.6 WETLAND G AND H

Wetland G is located between Stream #2 and Lake Capri on the southern end of the AOR. Wetland G was identified as an emergent and open water wetland which has formed from a constriction and backwater affect at the north end of Lake Capri. Wetland G is dominated by jewel weed (*Impatiens capensis*), sensitive fern (*Onoclea sensibilis*), and false nettle (*Bohemeria cylindrica*). A small elevated wetland bench dominated by larger trees and shrubs was identified along the eastern portion of the open water feature associated with Wetland G. Due to the change in vegetation cover this area was identified as Wetland H. Wetland H is a narrow forested wetland bench along the open water of Wetland G.

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Wetland G and H appear to receive hydrology from surficial runoff from the surrounding residential properties as well as backwater from Lake Capri. The soil within Wetland G and H had a chroma value of 1 with redox features around the pore linings in the upper 12 inches.

Wetland hydrology indicators within Wetland G and H included inundation of 0-2 inches, saturated soils at the surface, and drainage patterns. Wetland G was identified as an emergent wetland directly abutting Stream #2 and Wetland H was identified as forested.

These two wetlands transition to upland areas which are comprised of mowed/maintained residential yards and are dominated by upland grasses and weeds. No indicators of hydrology where identified within the upland areas along the wetland/upland interface and soils consisted of brighter brown matrix colors with no redox features.

#### 4.7 LAKE CAPRI

One large lacustrine wetland was identified at the southern end of the AOR and is identified as Lake Capri. This lacustrine wetland was delineated along the OHWM and is confined to the bank of the lake with no adjacent emergent features above the OHWM. The majority of the lake is surrounded by residential properties with mowed maintained lawns up to the bank of the lake. The southernmost end of the lake is bound by Montauk Highway and flows through an existing riser structure where it outfalls on the southern side of the highway to the tidal portion of Willetts Creek.

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#### 5. CONCLUSION

The streams and wetlands identified within the area of review, in EA's opinion, either exhibited characteristics of regulated waterways or all three wetland parameters as defined in the 2012 Regional Supplement Manual. Therefore, these areas were identified in the field and mapped on the Wetland Delineation Maps.

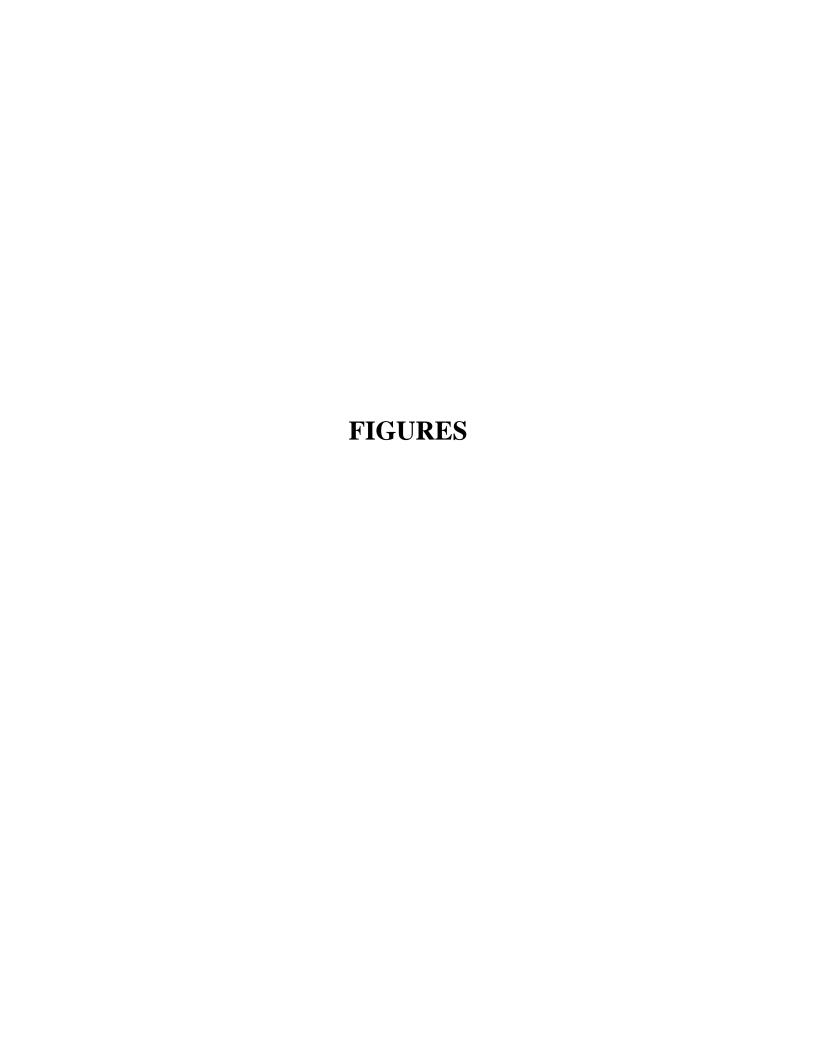
It is EA's professional opinion that there are jurisdictional non-tidal wetlands and streams present within the AOR. However, the USACE is the federal agency that determines the official jurisdictional status of wetlands/waterways. This report, including appendices should be submitted to the USACE in order to obtain a preliminary or final Jurisdictional Determination.

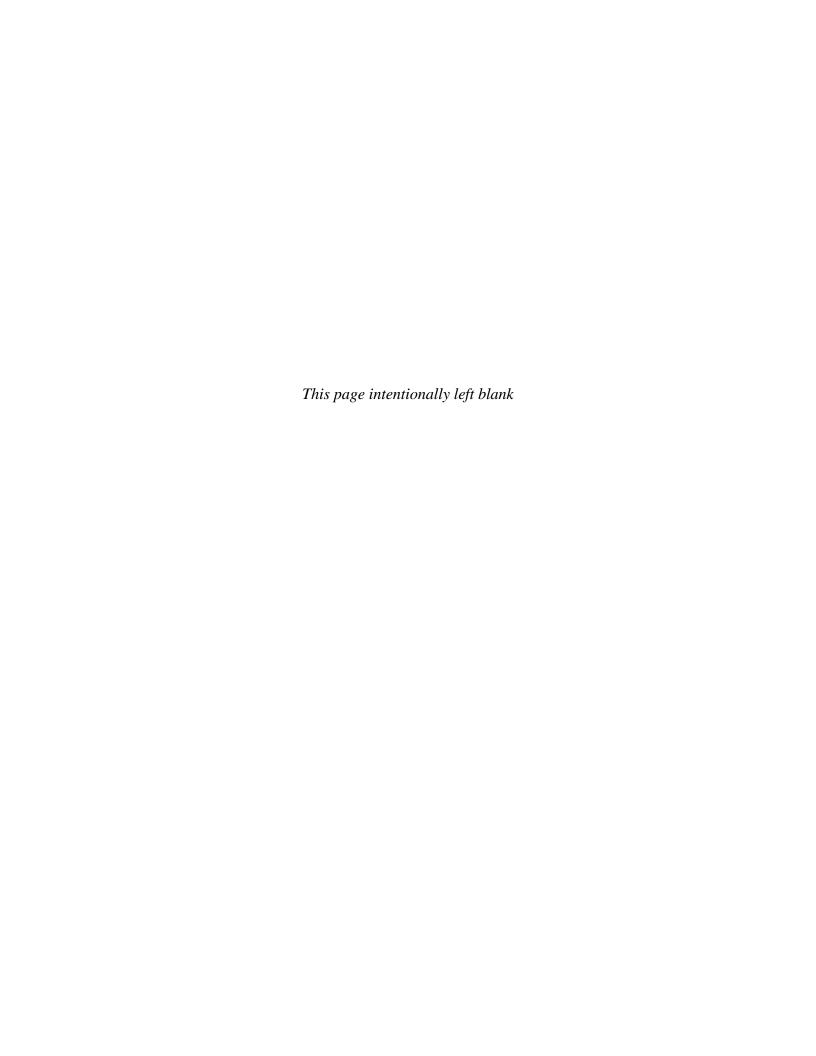
Furthermore, the NYSDEC and federal government have laws and regulations that govern wetlands which will require authorization from both agencies to impact these resources based on proposed remediation design.

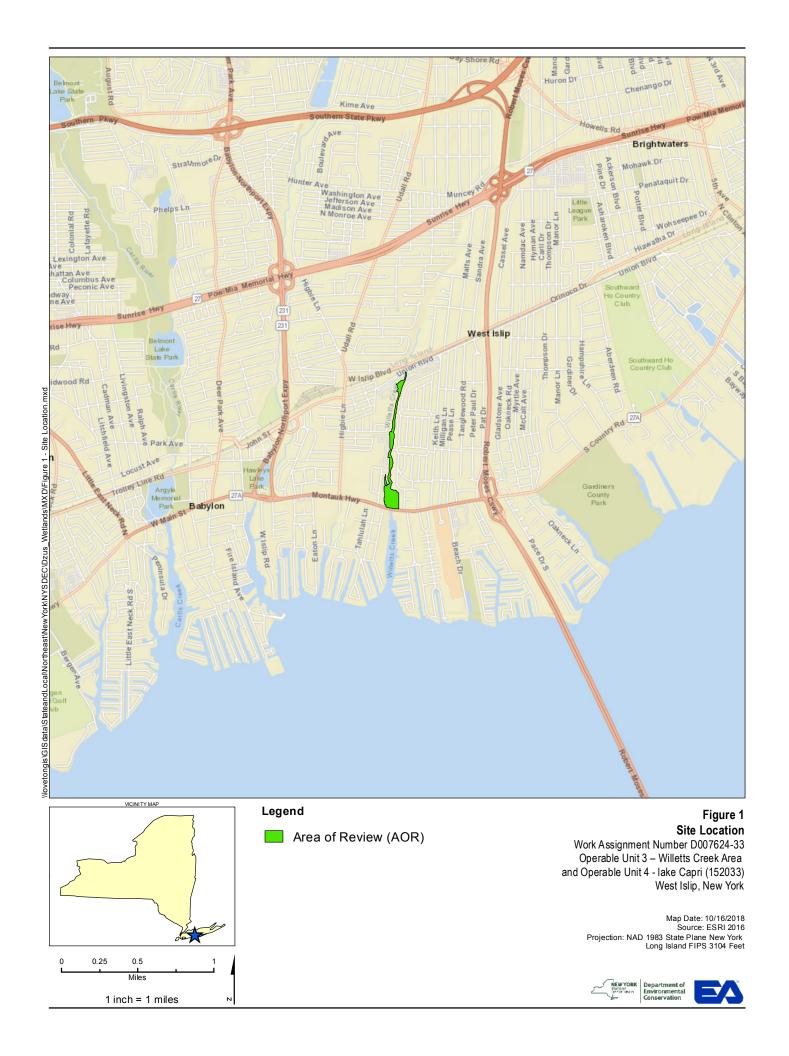
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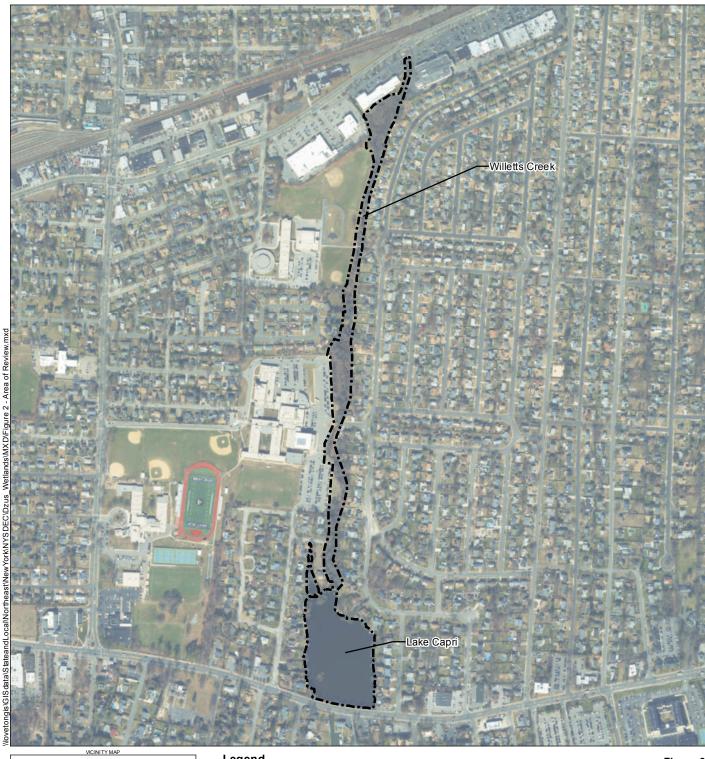
#### 6. REFERENCES

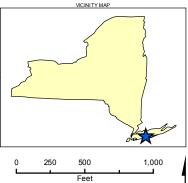
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#### Legend

Area of Review (AOR)

Figure 2

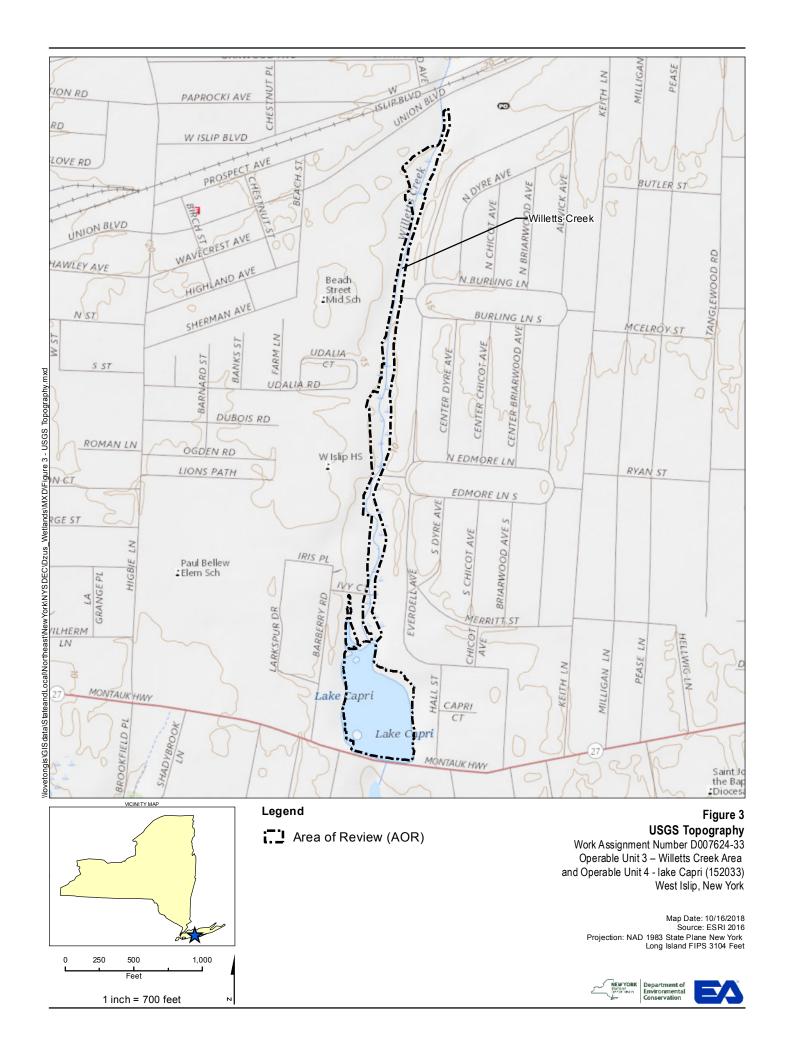
Area of Review

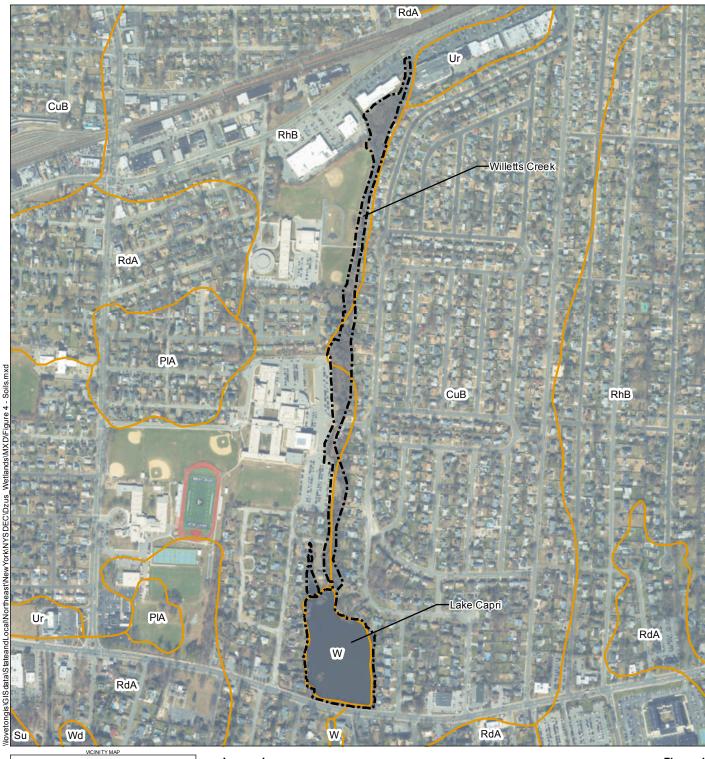
Work Assignment Number D007624-33

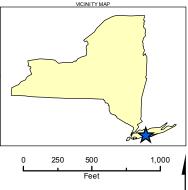
Operable Unit 3 – Willetts Creek Area
and Operable Unit 4 - lake Capri (152033)

West Islip, New York









#### Legend

Area of Review (AOR)

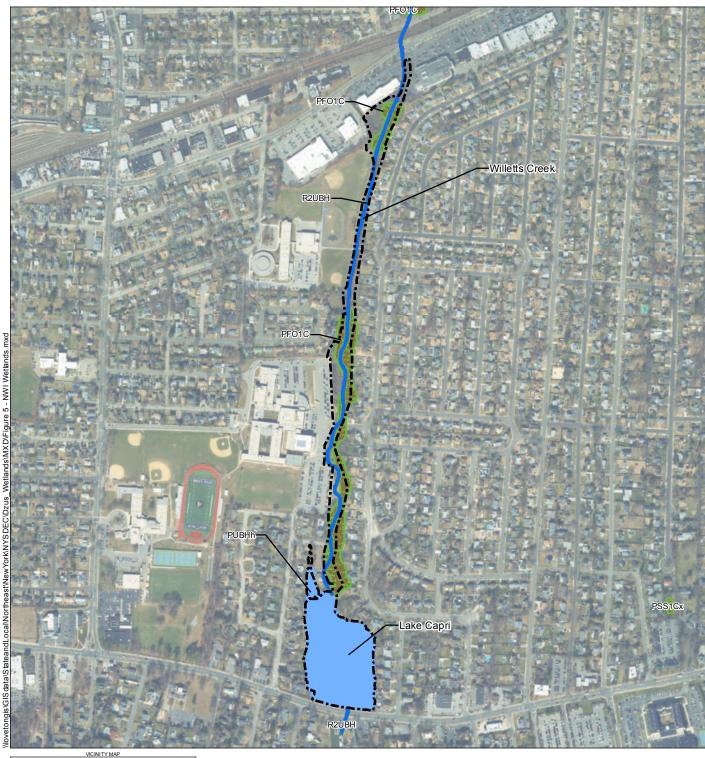
Soil Unit

## Figure 4

NRCS Soil Map Units
Work Assignment Number D007624-33
Operable Unit 3 – Willetts Creek Area
and Operable Unit 4 - lake Capri (152033) West Islip, New York

Map Date: 10/16/2018 Source: ESRI 2016, National Resources Conservation Service Soils Projection: NAD 1983 State Plane New York Long Island FIPS 3104 Feet







#### Legend

Area of Review (AOR)

#### Wetlands

Freshwater Forested/Shrub

Freshwater Pond

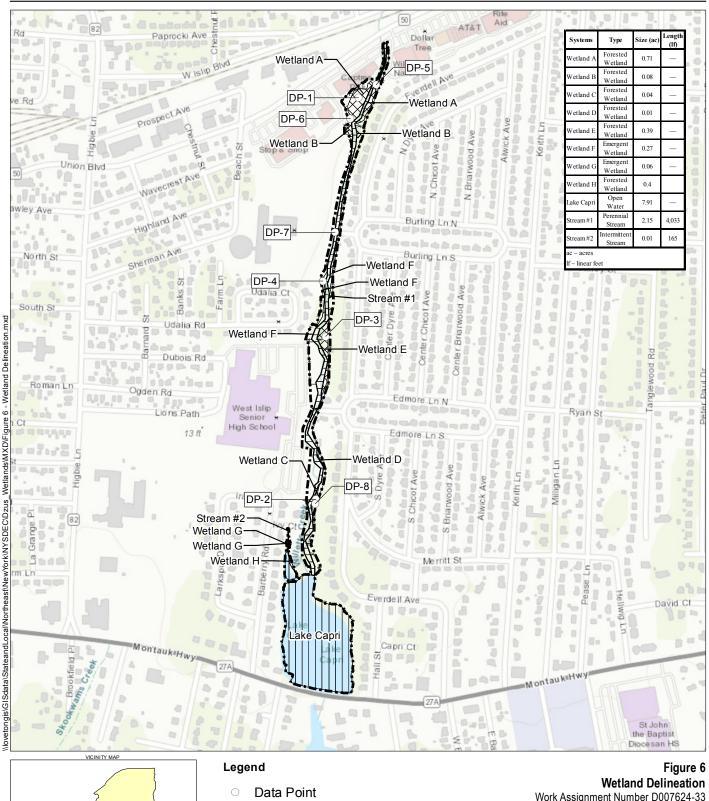
Riverine

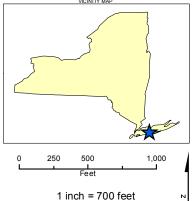
## Figure 5

NWI Wetlands
Work Assignment Number D007624-33
Operable Unit 3 – Willetts Creek Area
and Operable Unit 4 - lake Capri (152033) West Islip, New York

Map Date: 10/16/2018 Source: ESRI 2016 National Wetland Inventory Projection: NAD 1983 State Plane New York Long Island FIPS 3104 Feet







Area of Review (AOR)

Emergent Wetland

S Forested Wetland

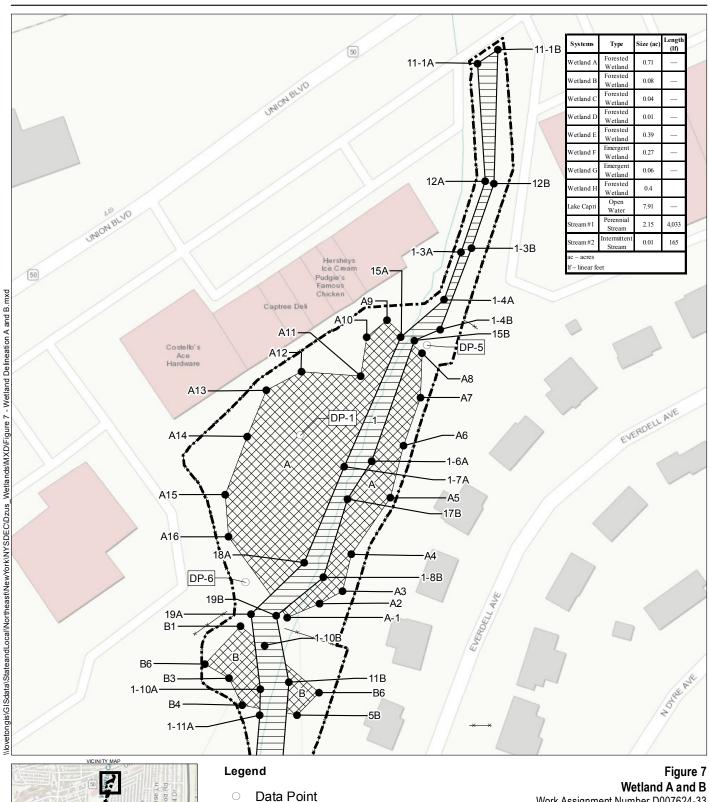
Open Water Wetland

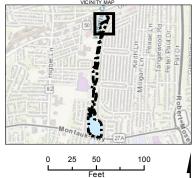
→ Fence Line

Work Assignment Number D007624-33 Operable Unit 3 – Willetts Creek Area and Operable Unit 4 - lake Capri (152033) West Islip, New York





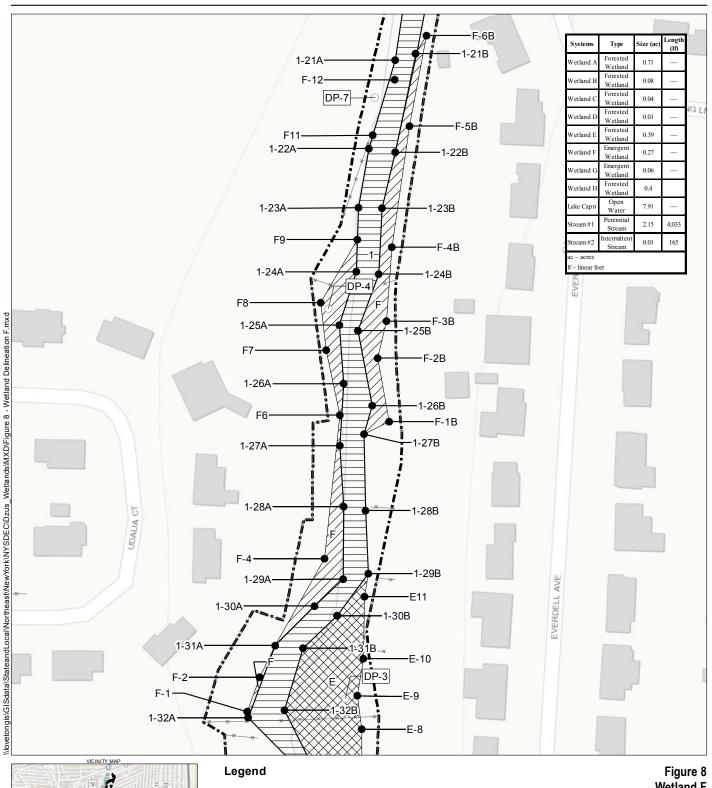


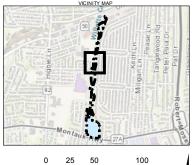


- Wetland Flag
- Area of Review (AOR)
- Forested Wetland
- Stream Channel (OHWM)
- \* Fence Line

Work Assignment Number D007624-33 Operable Unit 3 – Willetts Creek Area and Operable Unit 4 - lake Capri (152033) West Islip, New York







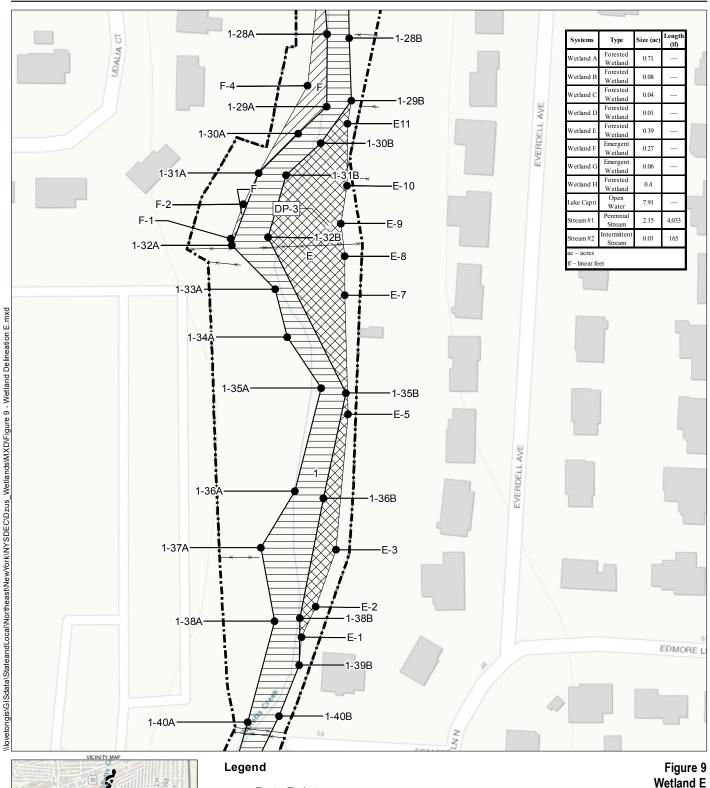
- Data Point
- Wetland Flag
- Area of Review (AOR)
- **Emergent Wetland**
- Forested Wetland
- Stream Channel (OHWM)
- \* Fence Line

## Wetland F

Work Assignment Number D007624-33 Operable Unit 3 – Willetts Creek Area and Operable Unit 4 - lake Capri (152033) West Islip, New York









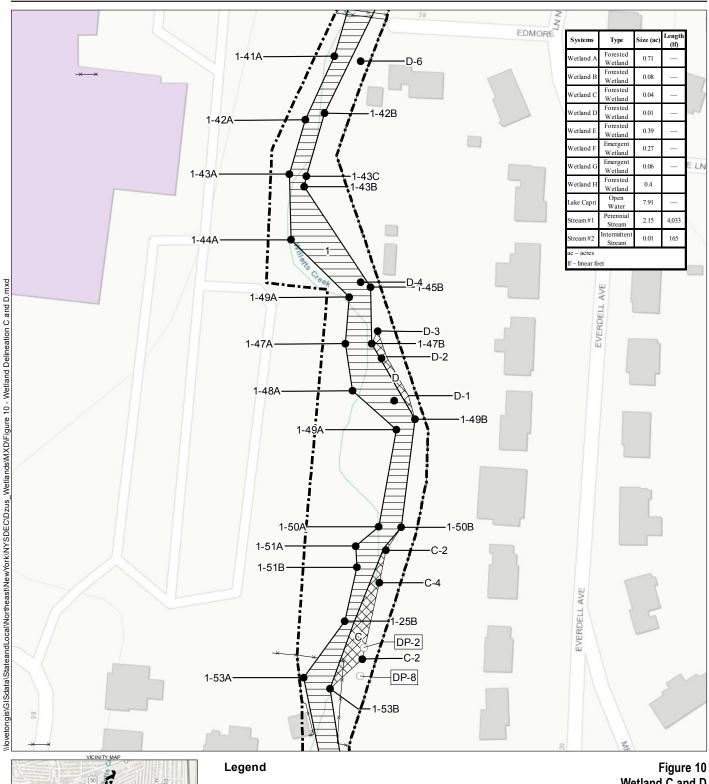
- Data Point
- Wetland Flag
- Area of Review (AOR)
- Emergent Wetland
- Forested Wetland
- Stream Channel (OHWM)
- \* Fence Line

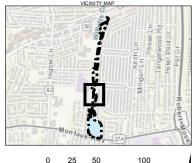
### Wetland E

Work Assignment Number D007624-33 Operable Unit 3 – Willetts Creek Area and Operable Unit 4 - lake Capri (152033) West Islip, New York







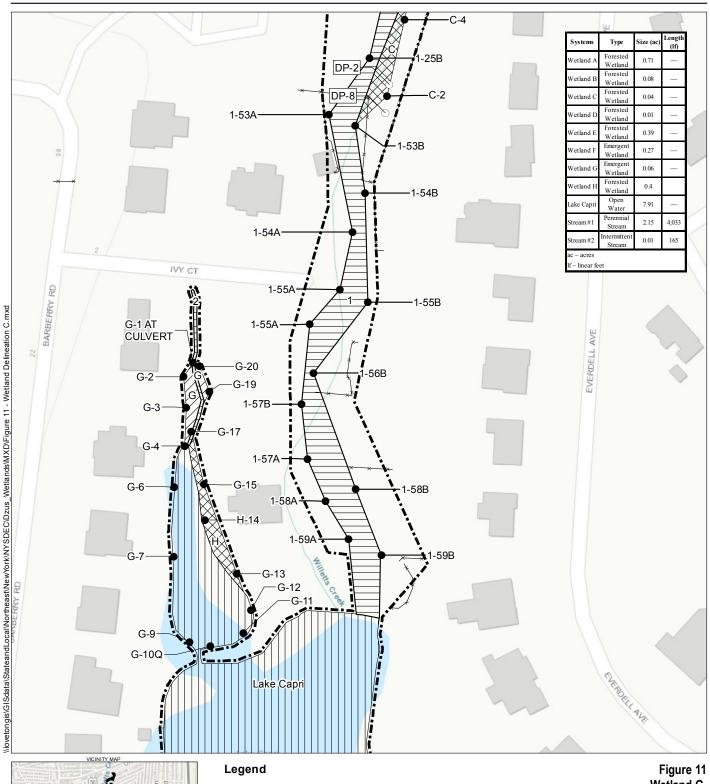


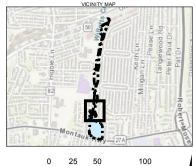
- Data Point
- Wetland Flag
- Area of Review (AOR)
- Forested Wetland
- Stream Channel (OHWM)
- \* Fence Line

### Wetland C and D

Work Assignment Number D007624-33 Operable Unit 3 – Willetts Creek Area and Operable Unit 4 - lake Capri (152033) West Islip, New York





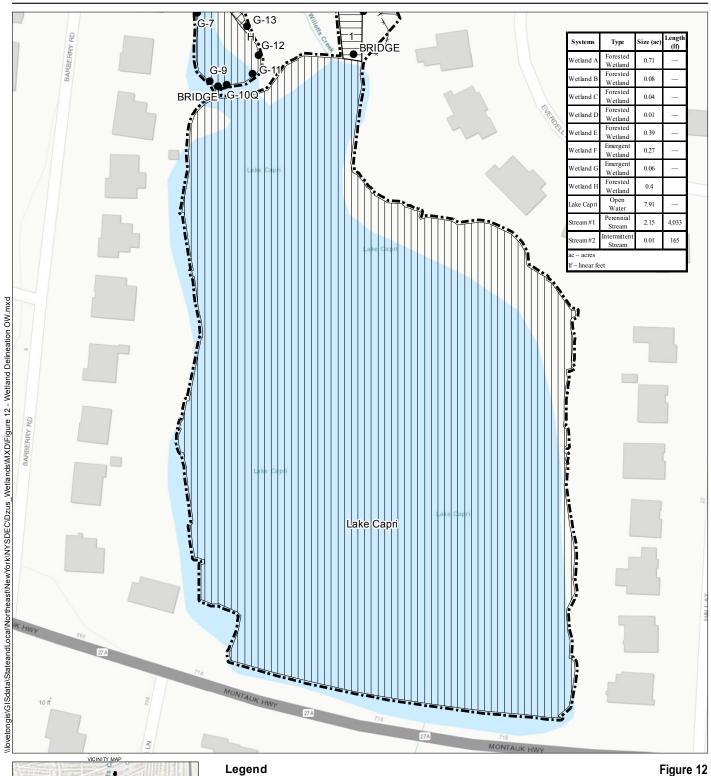


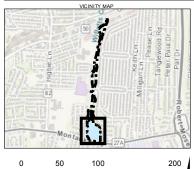
- Data Point
- Wetland Flag
- Area of Review (AOR)
- **Emergent Wetland**
- Forested Wetland
- Stream Channel (OHWM)
- $\mathbb{Z}$ Open Water Wetland
- \* Fence Line

## Wetland G

Work Assignment Number D007624-33 Operable Unit 3 – Willetts Creek Area and Operable Unit 4 - lake Capri (152033) West Islip, New York







1 inch = 125 feet

Wetland Flag

Area of Review (AOR)

Forested Wetland

Stream Channel (OHWM)

Open Water Wetland

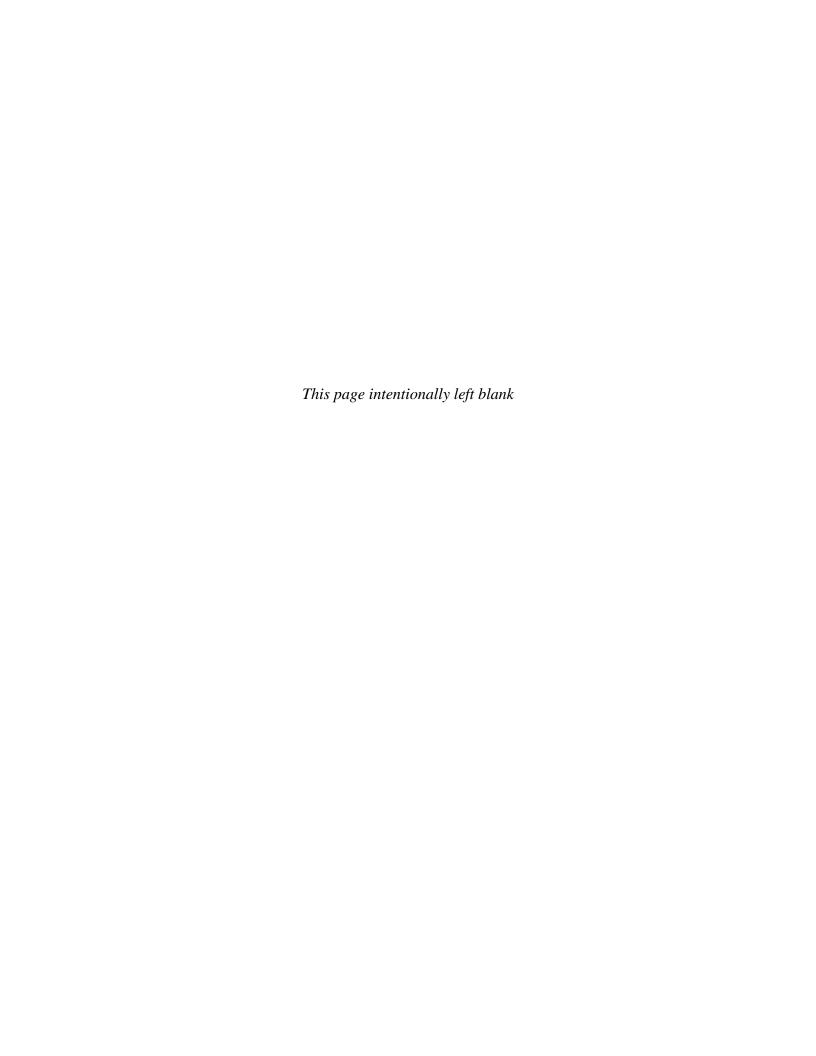
\* Fence Line

#### Wetland G and Openwater

Work Assignment Number D007624-33 Operable Unit 3 – Willetts Creek Area and Operable Unit 4 - lake Capri (152033) West Islip, New York



# Appendix A WETLAND DATA SHEETS



#### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region - Version 2.0

Project/Site: Dzus wetlands		City/County:	Suffolk County		Sam	npling Date: 3	3/12/18
Applicant/Owner: DEC				State:	NY Sam	npling Point:	DP-1W
Investigator(s): TMK		Se	ection, Township, I	Range: West	t Islip		
	hillslope		-	ef (concave, co		onvex	
•	40° 42' 11" N	Lon	gitude: 73° 18' 0	•	_	: NAD83	
· ———			gituue. <u>73 10 0.</u>	L VV			
	Soil Map Unit Name: Rh			- ""	NWI Classificat		
Are climatic/hydrologic conditions on	• •	•	Yes ☑ No l		xplain in Remarks	_	
Are Vegetation ☐, Soil ☐, or hydrol	ogy   significantly distur	bed?			present? Yes 🔽	No.	
Are Vegetation ☐, Soil ☐, or hydrol	logy   naturally problema	atic?	(If needed, exp	lain any answ	ers in remarks.)		
SUMMARY OF FINDINGS - Atta	ach site map shoing s	ampling po	oint locations,	transects, ir	nportant featu	ıres, etc.	
Hydrophytic Vegetation Present?	Yes ☑ No□	ls	the Sampled Area	within a Wet	land? Yes 🗹	No□	
Hydric Soil Present?	Yes ☑ No□						
	Yes ☑ No□	If	yes, optional Wetl	and Site ID:	Wetland A		
Remarks: (Explain alternative procedu			10-,				
	•		. = . =		1		
Data point collected in Wetland A and	I represenative of Wetland	ds A, B, D, and	E - Forested wet	ands with little	e phragmites		
HYDROLOGY							
Wetland Hydrology Indicators:					Secondary Indica	tors (minimu	m of 2)
Primary Indicators (minimum of one i	s required; check all that a	pply)			☐ Surface Soil	Cracks (B6)	
☑ Surface Water (A1)	☑ Wate	er Stained Lea	ives (B9)		✓ Drainage Pa	itterns (B10)	
☐ High Water Table (A2)		atic Fauna (B1	•		☐ Moss Trim L	, ,	
Saturation (A3)		Deposits (B1			ш .	Water Table	(C2)
Water Marks (B1)		rogen Sulfide (			Crayfish Bur	, ,	
Sediment Deposits (B2)		-	eres on Living Roo	ts (C3)		isible on Aer	
Drift Deposits (B3)		ence of Reduc		(36)		Stressed Plan	` '
Algal Mat or Crust (B4)			ction in Tilled Soils	(C6)		c Position (D2)	2)
Iron Deposits (B5)		Muck Surface			☐ Shallow Aqu		/D.4\
Inundation Visible on Aerial Ima	_	er (Explain in F	Remarks)			raphic Relief	(D4)
☐ Sparsely Vegetated Concave Sur	face (B8)		•		☐ FAC-Neutral	l Test (D5)	
Field Observations:							
	N == D==+h (inches).	4.3 ! shoo					
Surface Water Present? Yes	No Depth (inches):	1-2 inches	.				
Surface Water Present? Yes  Water Table Present? Yes	No Depth (inches):		Wetla	ad Hydrology (	Prosont? Yes 🗔	. No⊡	
Surface Water Present? Yes   Water Table Present? Yes   Saturation Present? Yes   ✓	<del>-</del> <del>-</del>	1-2 inches surface	- - Wetla	nd Hydrology I	Present? Yes 🗸	] No□	
Surface Water Present? Yes  Water Table Present? Yes	No Depth (inches):  Depth (inches):	surface			Present? Yes 🗸	] No□	
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage	No Depth (inches):  Depth (inches):	surface			Present? Yes 🗵	] No□	
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)	No Depth (inches):  Depth (inches):	surface			Present? Yes 🔽	] No 🗆	
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage	No Depth (inches):  Depth (inches):	surface			Present? Yes 🗵	] No⊡	
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage	No ☑ Depth (inches): No ☐ Depth (inches): ☐ Dep	surface			Present? Yes 🔽	] No [	
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N	No  □ Depth (inches): No  □ Depth (inches): D	surface photos, previo	ous inspections), if	available:  Dominance 1	Fest worksheet:	] No⊡	
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft	No ☑ Depth (inches): No ☐ Depth (inches): Depth (inches): ☐ Depth	surface  photos, previo	ous inspections), if	available:  Dominance 1  Number of D	Fest worksheet: ominant Species		
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua	No ☑ Depth (inches): No ☐ Depth (inches): ☐ Dep	photos, previo	inant Indicator cies? Status	available:  Dominance 1  Number of D	Fest worksheet:	No □	(A)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum	No ☑ Depth (inches): No ☐ Depth (inches): ☐ Dep	photos, previo	ous inspections), if	Dominance 1 Number of D That Are OBL	Fest worksheet: ominant Species ., FACW, or FAC:		(A)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3	No ☑ Depth (inches): No ☐ Depth (inches): ☐ Dep	photos, previo	inant Indicator cies? Status	Dominance 1 Number of D That Are OBL	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant	5	
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4	No ☑ Depth (inches): No ☐ Depth (inches): ☐ Dep	photos, previo	inant Indicator cies? Status	Dominance 1 Number of D That Are OBL	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant		(A) (B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5	No ☑ Depth (inches): No ☐ Depth (inches): ☐ Dep	photos, previo	inant Indicator cies? Status	Dominance Towns Are OBL Total Number Species Acros	Fest worksheet: ominant Species ., FACW, or FAC: er of Dominant ss All Strata:	5	
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4	No ☑ Depth (inches): No ☐ Depth (inches): ☐ Dep	photos, previo	inant Indicator cies? Status	Dominance Towns Are OBL Total Number Species Acro	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant ss All Strata: ominant Species	5	(B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5	No Depth (inches): No Depth (inches): Depth (inches):  ge, monitoring well, aerial properties  Names of Plants.  Absolute 2 2	photos, previo	inant Indicator cies? Status	Dominance Towns Are OBL Total Number Species Acro	Fest worksheet: ominant Species ., FACW, or FAC: er of Dominant ss All Strata:	5	(B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5	No Depth (inches): No Depth (inches): Depth (inches):  ge, monitoring well, aerial properties  Names of Plants.  Absorb  2 2	photos, previo	inant Indicator cies? Status es FAC FAC	Dominance Towns Are OBL Total Number Species Acro	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant ss All Strata: ominant Species	5	(B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5	No Depth (inches): No Depth (inches): No Depth (inches): ge, monitoring well, aerial properties  Names of Plants.  Absolute 2 2 4 2	photos, previo	inant Indicator cies? Status es FAC FAC	Dominance Towns Are OBL Total Number Species Acro Percent of Do That Are OBL	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant ss All Strata: ominant Species	5	(B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage)  Remarks:  VEGETATION - Use Scientific N  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5 6 7	No Depth (inches): No Depth (inches): No Depth (inches):  ge, monitoring well, aerial properties  Names of Plants.  Absolute	photos, previo	inant Indicator cies? Status es FAC FAC	Dominance Towns Are OBL Total Number Species Acro Percent of Do That Are OBL	Fest worksheet: ominant Species ., FACW, or FAC: er of Dominant ss All Strata: ominant Species ., FACW, or FAC:	5	(B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4 5 6 6 7 5 5 6 6 7 5 5 5 6 6 7 5 5 6 6 7 5 5 6 6 7 6 7	No Depth (inches): No Depth (inches): No Depth (inches): ge, monitoring well, aerial properties  Names of Plants.  Absorb  2 2 10 ft )	photos, previo	inant Indicator cies? Status es FAC FAC	Dominance Towns Are OBL Total Number Species Acro Percent of Do That Are OBL Prevalence In	Fest worksheet: ominant Species ., FACW, or FAC: er of Dominant ss All Strata: ominant Species ., FACW, or FAC:	5	(B) (A/B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4 5 6 6 7   Sapling/Shrub Stratum (Plot size: 1 Clethra alnifolia	No Depth (inches): No Depth (inches): No Depth (inches):  ge, monitoring well, aerial properties  Names of Plants.  Absolute	Surface	inant Indicator cies? Status es FAC	Dominance 1 Number of D That Are OBL Total Numbe Species Acro Percent of D That Are OBL  Prevalence II Total % Coo OBL species FACW species	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant ss All Strata: ominant Species ., FACW, or FAC: ondex worksheet: ver of:	5	(B) (A/B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4 5 6 6 7    Sapling/Shrub Stratum (Plot size: 1 Clethra alnifolia 2 Rosa multiflora	No Depth (inches): No Depth (inches): No Depth (inches):  ge, monitoring well, aerial properties  Names of Plants.  Absolute	Surface	inant Indicator cies? Status es FAC	Dominance Towns Are OBL Total Number of Dominance In Total % Cool OBL species	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant ss All Strata: ominant Species ., FACW, or FAC: ondex worksheet: ver of:	5	(B) (A/B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4 5 6 6 7 9	No Depth (inches): No Depth (inches): No Depth (inches):  ge, monitoring well, aerial properties  Names of Plants.  Absolute	Surface	inant Indicator cies? Status es FAC	Dominance 1 Number of D That Are OBL Total Numbe Species Acro Percent of D That Are OBL  Prevalence II Total % Coo OBL species FACW species	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant ss All Strata: ominant Species ., FACW, or FAC: ndex worksheet: ver of:	5 100.0 x 1 x 2	(B) (A/B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4 5 6 6 7 9	No Depth (inches): No Depth (inches): No Depth (inches):  ge, monitoring well, aerial properties  Names of Plants.  Absolute	Surface	inant Indicator cies? Status es FAC	Dominance To Number of Dominance To That Are OBL Total Number Species Acro.  Percent of Dominance Total Number of Dominanc	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant ss All Strata: ominant Species ., FACW, or FAC: ndex worksheet: ver of:	5 100.0 x 1 x 2 x 3	(B) (A/B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4 5 6 6 7 9	No Depth (inches): No Depth (inches): No Depth (inches):  ge, monitoring well, aerial properties  Names of Plants.  Absolute	Surface	inant cies? Status es FAC FAC Status es FAC FAC FAC FAC FAC FAC FACW FACW	Dominance Towns of Dominance In Total % Corollary Species FACW species FACW species FACU species Column Total	Fest worksheet: ominant Species ., FACW, or FAC: er of Dominant ss All Strata: cominant Species ., FACW, or FAC: mdex worksheet: ver of: s s s s s s	5 100.0 x 1 x 2 x 3 x 4 x 5 (A)	(B) (A/B)
Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream guage Remarks:  VEGETATION - Use Scientific Normal Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4 5 6 6 7 9	No Depth (inches): No Depth (inches): No Depth (inches): Se, monitoring well, aerial properties  Names of Plants.  Absolute  A	Surface	inant cies? Status es FAC FAC Status es FAC FAC FAC FAC FAC FAC FACW FACW	Dominance Towns of Dominance In Total % Corollary Species FACW species FACW species FACU species Column Total	Fest worksheet: ominant Species ., FACW, or FAC: or of Dominant ss All Strata: ominant Species ., FACW, or FAC: ndex worksheet: ver of:	5 100.0 x 1 x 2 x 3 x 4 x 5 (A)	(B) (A/B) tiply by:



#### WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region - Version 2.0

Vegetation (continued)				Sampling Point: DP-1W
	Absolute Do	ominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 10 ft )	% Cover S	pecies?	Status	Rapid Test for Hydrophytic Vegetation
1				☑ Dominance test is >50%
2 Symplocarpus foetidus	30	Yes	OBL	☐ Prevalence Index is ≤3.01
3				☐ Morphological Adaptations1 (Provide Supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation1 (Explain)
6				Indicators of hydric soil and wetland hydrology must
7				be present, unless distrubed or problematic.
8	- — - ——— —			
		tal Cover		
	<u>15</u> = 509	% 6	= 20%	Definitions of Vegetation Strata:
Woody-vine Stratum (Plot size: 10ft )	_			Tree: Woody plants 3 in. (7.6cm) or more in diameter
1				at breast height (DBH), regardless of height.
2				Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater then 3.28 ft (1m) tall.
5				Herb: All herbaceous (non-woody) plants, regardless
[] <del></del>				of size, and woody plants less than 3.28 ft tall.
6				Woody Vines: All woody vines greater than 3.28 ft in height.
·		tal Cover		neight.
	= 50		= 20%	Hydrophytic Vegetation Present? Yes No
		<sup>70</sup>	20/0	Invalophytic vegetation resent. 163   154
Remarks: (Include photo numbers here or on a separat	to chaat 1			
Remarks: (include photo numbers here or on a separar	te sneet.)			
SOIL				
3011				
Profile Description: (Describe to the depth needed to	document the indica	ator or conf	irm the ab	bsence of indicators.)
Depth Matrix	Redox Features			
(inches) Color (moist) % Color (moist)	% Type <sup>1</sup>	Loc²	Text	ure Remarks
	1	Loc <sup>2</sup>	Texto	
(inches) Color (moist) % Color (moist)	% Type <sup>1</sup>			pam
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100	% Type <sup>1</sup>		silt lo	pam pam
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6	% Type <sup>1</sup> C	 PL	silt lo	pam pam
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6	% Type <sup>1</sup> C	 PL	silt lo	pam pam
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6	% Type <sup>1</sup> C	 PL	silt lo	pam pam
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6	% Type <sup>1</sup> 10 C 20 C	PL M	silt lo silt lo clay lo	pam pam
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4	% Type <sup>1</sup> 10 C 20 C	PL M	silt lo silt lo clay lo	pam pam
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    Type: C=Concentration, D=Depletion, RM=Reduced M Hydric Soil Indicators:	% Type <sup>1</sup> 10 C 20 C	PL M	silt lo silt lo clay lo	Doam Doam Doam  2 Location: PL=Pore Lining, M=Matrix.
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1)	% Type¹ 10 C 20 C latrix, CS=Covered o	PL M	silt lo silt lo clay lo	2 cm Muck (A10) (LRR K, L, MLRA 149B)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)	% Type¹ 10 C 20 C  latrix, CS=Covered o	PL M	silt lo	2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:    Histosol (A1)	% Type¹ 10 C 20 C latrix, CS=Covered o	r Coated Sar	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Park (S3) (LRR K, L, R)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:    Histosol (A1)	% Type¹ 10 C 20 C  latrix, CS=Covered o  Polyvalue Below Surf MLRA 149B)  Thin Dark Surface (SS	r Coated San face (S8) (LR	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:    Histosol (A1)	% Type¹	r Coated San face (S8) (LR O) (LRR R, M al (F1) (LRR x (F2)	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  This Peak Surface (S8) (LRR K, L)
Color (moist)	% Type¹ 10 C 20 C  atrix, CS=Covered o  Polyvalue Below Surf MLRA 149B)  Thin Dark Surface (SS.oamy Mucky Mineral	r Coated San face (S8) (LR e) (LRR R, M al (F1) (LRR x (F2)	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    **Type: C=Concentration, D=Depletion, RM=Reduced M           Hydric Soil Indicators:         □         □         □           □ Histosol (A1)         □         □         □           □ Histic Epipedon (A2)         □         □         □           □ Black Histic (A3)         □         □         □           □ Hydron Sulfide (A4)         □         □         □           □ Stratified Layers (A5)         □         □         □           □ Depleted Below Dark Surface (A11)         □         □         □           □ Thick Dark Surface (A12)         □         □         □	% Type¹	r Coated San face (S8) (LR 9) (LRR R, M al (F1) (LRR x (F2)	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    **Type: C=Concentration, D=Depletion, RM=Reduced M           Hydric Soil Indicators:           Histosol (A1)           P             Histic Epipedon (A2)           Black Histic (A3)           T             Hydron Sulfide (A4)           L             Stratified Layers (A5)           L             Depleted Below Dark Surface (A11)           D             Thick Dark Surface (A12)           R             Sandy Mucky Mineral (S1)           D	% Type¹	r Coated San face (S8) (LR 6) (LRR R, M al (F1) (LRR x (F2) F6) ce (F7)	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    **Type: C=Concentration, D=Depletion, RM=Reduced M           Hydric Soil Indicators:           P           P             Histosol (A1)           P           P             Black Histic (A3)           T           T             Hydron Sulfide (A4)           D           L             Stratified Layers (A5)           D           L             Depleted Below Dark Surface (A11)           D           R             Thick Dark Surface (A12)           R             Sandy Mucky Mineral (S1)           D           R             Sandy Gleyed Matrix (S4)           R           R	% Type¹	r Coated San face (S8) (LR 6) (LRR R, M al (F1) (LRR x (F2) F6) ce (F7)	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    **Type: C=Concentration, D=Depletion, RM=Reduced M           Hydric Soil Indicators:           Histosol (A1)           P             Histic Epipedon (A2)           Black Histic (A3)           T             Hydron Sulfide (A4)           L             Stratified Layers (A5)           L             Depleted Below Dark Surface (A11)           D             Thick Dark Surface (A12)           R             Sandy Mucky Mineral (S1)           D	% Type¹	r Coated San face (S8) (LR 6) (LRR R, M al (F1) (LRR x (F2) F6) ce (F7)	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)
(inches)         Color (moist)         %         Color (moist)           0-2         10YR 3/1         100            2-12         10YR 4/2         90         10YR 5/6           12-18         10YR 4/2         80         10YR 4/4    **Type: C=Concentration, D=Depletion, RM=Reduced M           Hydric Soil Indicators:         □         □         □           □ Histosol (A1)         □         □         □           □ Histic Epipedon (A2)         □         □         □           □ Black Histic (A3)         □         □         □           □ Hydron Sulfide (A4)         □         □         □           □ Stratified Layers (A5)         □         □         □           □ Depleted Below Dark Surface (A11)         □         □         □           □ Thick Dark Surface (A12)         □         □         □           □ Sandy Mucky Mineral (S1)         □         □         □           □ Sandy Redox (S5)         □         □         □         □           □ Stripped Matrix (S6)         □         □         □         □         □	% Type¹	r Coated San face (S8) (LR 6) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7)	silt lo silt lo clay lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P  Histic Epipedon (A2) D  Black Histic (A3) D  Hydron Sulfide (A4) D  Stratified Layers (A5) D  Depleted Below Dark Surface (A11) D  Thick Dark Surface (A12) R  Sandy Mucky Mineral (S1) D  Sandy Gleyed Matrix (S4) R  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)	% Type¹	r Coated San face (S8) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P Histic Epipedon (A2) D Black Histic (A3) D Stratified Layers (A5) D Depleted Below Dark Surface (A11) D Thick Dark Surface (A12) D Sandy Mucky Mineral (S1) D Sandy Gleyed Matrix (S4) D Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro	% Type¹	r Coated San face (S8) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) Pistic Epipedon (A2)	% Type¹	r Coated San face (S8) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  pr problematic.
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P Histic Epipedon (A2) D Black Histic (A3) D Stratified Layers (A5) D Depleted Below Dark Surface (A11) D Thick Dark Surface (A12) R Sandy Mucky Mineral (S1) D Sandy Gleyed Matrix (S4) R Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydrores.  Type:	% Type¹	r Coated San face (S8) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) Pistic Epipedon (A2)	% Type¹	r Coated San face (S8) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  pr problematic.
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P Histic Epipedon (A2) D Black Histic (A3) D Stratified Layers (A5) D Depleted Below Dark Surface (A11) D Thick Dark Surface (A12) R Sandy Mucky Mineral (S1) D Sandy Gleyed Matrix (S4) R Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydrores.  Type:	% Type¹	r Coated San face (S8) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  pr problematic.
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P Histic Epipedon (A2) D Black Histic (A3) D Stratified Layers (A5) D Depleted Below Dark Surface (A11) D Thick Dark Surface (A12) R Sandy Mucky Mineral (S1) D Sandy Gleyed Matrix (S4) R Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydrores.  Type:	% Type¹	r Coated San face (S8) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  pr problematic.
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P Histic Epipedon (A2) D Black Histic (A3) D Stratified Layers (A5) D Depleted Below Dark Surface (A11) D Thick Dark Surface (A12) R Sandy Mucky Mineral (S1) D Sandy Gleyed Matrix (S4) R Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydrores.  Type:	% Type¹	r Coated San face (S8) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  pr problematic.
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P Histic Epipedon (A2) D Black Histic (A3) D Stratified Layers (A5) D Depleted Below Dark Surface (A11) D Thick Dark Surface (A12) R Sandy Mucky Mineral (S1) D Sandy Gleyed Matrix (S4) R Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydrores.  Type:	% Type¹	r Coated San face (S8) (LR e) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  or problematic.
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P Histic Epipedon (A2) D Black Histic (A3) D Stratified Layers (A5) D Depleted Below Dark Surface (A11) D Thick Dark Surface (A12) R Sandy Mucky Mineral (S1) D Sandy Gleyed Matrix (S4) R Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydrores.  Type:	% Type¹	r Coated San face (S8) (LR e) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  or problematic.
(inches) Color (moist) % Color (moist)  0-2 10YR 3/1 100  2-12 10YR 4/2 90 10YR 5/6  12-18 10YR 4/2 80 10YR 4/4   Type: C=Concentration, D=Depletion, RM=Reduced M  Hydric Soil Indicators:  Histosol (A1) P Histic Epipedon (A2) D Black Histic (A3) D Stratified Layers (A5) D Depleted Below Dark Surface (A11) D Thick Dark Surface (A12) R Sandy Mucky Mineral (S1) D Sandy Gleyed Matrix (S4) R Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydrores.  Type:	% Type¹	r Coated San face (S8) (LR e) (LRR R, M al (F1) (LRR x (F2) (F6) ce (F7) F8)	silt lo silt lo clay lo and Grains. R R, LRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  pr problematic.



Project/Site: Dzus wetlands		City/C	County: Suffolk	County		Sa	mpling Date:	3/12/18
Applicant/Owner: DEC					State:	NY Sa	mpling Point:	DP-2W
Investigator(s): TMK			Section,	Γownship, Ra	ange: Wes	st Islip		
Landform (hillslope, terrace, etc.):	hillslope			•			convex	
	40° 42' 11" N		Longitude:	73° 18' 01"	•	•	n: NAD83	
Subregion (LRR or MLRA)	Soil Map Unit Name:	RhB		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		NWI Classifica		
Are climatic/hydrologic conditions or	- '		V6	es☑ No ☐	7 (If no	explain in Remark		
· -		•				·	•	
Are Vegetation , Soil , or hydro						" present? Yes 🔽	No□	
Are Vegetation ☐, Soil ☐, or hydro	ology   naturally prob	lematic?	(IT n	eeded, expi	ain any answ	vers in remarks.)		
SUMMARY OF FINDINGS - Att	tach site map shoir	ng sampl	ing point lo	cations, to	ransects, i	mportant feat	ures, etc.	
Hydrophytic Vegetation Present?	Yes ☑ No□					tland? Yes 🗸	No□	
Hydric Soil Present?	Yes ☑ No ☐			·				
Wetland Hydrology Present?	Yes ☑ No□		If yes, op	tional Wetla	nd Site ID:	Wetland C		
Remarks: (Explain alternative proced		ate renort.						
Themand, (Explain area are p. 1111	ures here of in a separa	atte repo	,					
phragmites dominated forested wetl	and							
HYDROLOGY								
Wetland Hydrology Indicators:						Secondary Indic	•	ım of 2)
Primary Indicators (minimum of one							il Cracks (B6)	
☐ Surface Water (A1)	= .		ned Leaves (B9	1)			Patterns (B10)	
High Water Table (A2)		Aquatic Fau	, ,				Lines (B16)	•
Saturation (A3)	Ξ.	Marl Depos					n Water Table	(C2)
Water Marks (B1)			Sulfide Odor (C	-	- (03)		urrows (C8)	:- L (CO)
Sediment Deposits (B2)			hizospheres on f Poducod Iron	_	s (C3)		Visible on Aer	
☐ Drift Deposits (B3)☐ Algal Mat or Crust (B4)			f Reduced Iron n Reduction in		CC)		Stressed Plan nic Position (D2	. ,
1 0			Surface (C7)	Hilleu Sons v	Lbj		nc Position (D2)	2)
l —			Surrace (C7) lain in Remark:	~1		_	quitard (D3) graphic Relief	(DA)
Inundation Visible on Aerial Ima	agery (B7)	לווכו (בתף.	idili iii neme	5)		IVIICIOCOP -	grapine nene.	(D4)
I - A	100					□ FAC Noutr	1 1DEI	
☐ Sparsely Vegetated Concave Su	rface (B8)					☐ FAC-Neutr	al Test (D5)	
Field Observations:		1-				☐ FAC-Neutr	al Test (D5)	
Field Observations: Surface Water Present? Yes	No Depth (inches)					☐ FAC-Neutr	al Test (D5)	
Field Observations: Surface Water Present? Yes	No Depth (inches)	):	hes	Wetland	d Hydrology		, ,	
Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)	No Depth (inches) No Depth (inches) No Depth (inches)	):					, ,	
Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  Yes  Yes	No Depth (inches) No Depth (inches) No Depth (inches)	):					, ,	
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua	No Depth (inches) No Depth (inches) No Depth (inches)	):					, ,	
Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)	No Depth (inches) No Depth (inches) No Depth (inches)	):					, ,	
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua	No Depth (inches) No Depth (inches) No Depth (inches)	):					, ,	
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Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, ae	): 2 incl	s, previous insp	pections), if a	available:	Present? Yes [	, ,	
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	):  2 incl rial photos  Absolute	s, previous insp	pections), if a	available:	Present? Yes [	☑ No□	
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	): 2 incl rial photos  Absolute % Cover	o, previous insp Dominant Species?	ections), if a	available:  Dominance Number of I	Present? Yes [  Test worksheet:  Dominant Species	☑ No□	(A)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	):  2 incl rial photos  Absolute	s, previous insp	pections), if a	available:  Dominance Number of I	Present? Yes [	☑ No□	(A)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	nial photos  Absolute  Cover	Dominant Species? Yes	Indicator Status FAC	Dominance Number of I That Are OB	Present? Yes [  Test worksheet:  Dominant Species	☑ No□	(A)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	nial photos  Absolute  Cover	Dominant Species? Yes	Indicator Status FAC	Dominance Number of I That Are OB	Present? Yes [ Test worksheet: Dominant Species L, FACW, or FAC:	☑ No□	(A)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific    Tree Stratum (Plot size: 30 ft   1 Liquidambar styraciflua   2 Acer rubrum	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	nial photos  Absolute  Cover	Dominant Species? Yes	Indicator Status FAC FAC	Dominance Number of I That Are OB Total Numbo Species Acro	Present? Yes [ Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant oss All Strata:	✓ No □	
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	nial photos  Absolute  Cover	Dominant Species? Yes	Indicator Status FAC FAC	Dominance Number of I That Are OB Total Numbo Species Acro	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant coss All Strata: Dominant Species	✓ No □	(B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific    Tree Stratum (Plot size: 30 ft   1 Liquidambar styraciflua   2 Acer rubrum   3   4   5	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	rial photos  Absolute % Cover 10	Dominant Species? Yes Yes	Indicator Status FAC FAC	Dominance Number of I That Are OB Total Numbo Species Acro	Present? Yes [ Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant oss All Strata:	✓ No □	(B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe) Describe Recorded Data (stream gua) Remarks:  VEGETATION - Use Scientific    Tree Stratum (Plot size: 30 ft   1 Liquidambar styraciflua   2 Acer rubrum   3   4   5	No Depth (inches) No Depth (inches) No Depth (inches) ge, monitoring well, aei	Absolute % Cover 10 10	Dominant Species? Yes Yes Total cover	Indicator Status FAC FAC	Dominance Number of I That Are OB Total Numbo Species Acro	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant coss All Strata: Dominant Species	✓ No □ 4 5	(B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua  Remarks:  VEGETATION - Use Scientific   Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5 6 7	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10	Dominant Species? Yes Yes	Indicator Status FAC FAC  = 20%	Dominance Number of I That Are OB Species Acro Percent of I That Are OB	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant coss All Strata: Dominant Species L, FACW, or FAC:	✓ <b>No</b> □ 4 5 80.0	(B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua)  Remarks:  VEGETATION - Use Scientific   Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5 6 7  Sapling/Shrub Stratum (Plot size: Plot size: size: Pl	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10 20 10	Dominant Species? Yes Yes  Total cover = 50% 4	Indicator Status FAC FAC  = 20%	Dominance Number of I That Are OB Total Numbe Species Acro Percent of I That Are OB	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant coss All Strata: Dominant Species L, FACW, or FAC:	✓ <b>No</b> □  4  5  80.0	(B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua)  Remarks:  VEGETATION - Use Scientific   Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10  20 10	Dominant Species? Yes Yes  Total cover = 50% 4	Indicator Status FAC FAC  = 20%	Dominance Number of I That Are OB Species Acro Percent of I That Are OB	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant coss All Strata: Dominant Species L, FACW, or FAC: Index worksheet: over of:	✓ <b>No</b> □  4  5  80.0	(B)
Field Observations: Surface Water Present? Yes □ Water Table Present? Yes □ Saturation Present? Yes □ (includes capillary fringe) Describe Recorded Data (stream gua Remarks:  VEGETATION - Use Scientific □  Tree Stratum (Plot size: 30 ft 1 Liquidambar styraciflua 2 Acer rubrum 3 4 5 6 7	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10 20 10	Dominant Species? Yes Yes  Total cover = 50% 4	Indicator Status FAC FAC  = 20% FACW FACU	Dominance Number of I That Are OB Total Numb Species Acro Percent of I That Are OB  Prevalence I Total % Co OBL species	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant coss All Strata: Dominant Species L, FACW, or FAC: Index worksheet: over of:	✓ <b>No</b> ☐  4  5  80.0	(B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua  Remarks:  VEGETATION - Use Scientific   Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5 6 7	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10  20 10	Dominant Species? Yes Yes  Total cover = 50% 4	Indicator Status FAC FAC = 20% FACW FACU	Dominance Number of I That Are OB Total Numbor Species Acro Percent of D That Are OB Prevalence I Total % Co OBL species FACW species	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant bass All Strata: Dominant Species L, FACW, or FAC: Index worksheet: byer of:	✓ No ☐  4  5  80.0  x 1  x 2	(B) (A/B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua  Remarks:  VEGETATION - Use Scientific   Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5 6 7	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10  20 10	Dominant Species? Yes Yes  Total cover = 50% 4	Indicator Status FAC FAC = 20% FACW FACU	Dominance Number of I That Are OB Total Number Species Acro Percent of I That Are OB  Prevalence I Total % Co OBL species FACW species FACW species	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant coss All Strata: Dominant Species L, FACW, or FAC: Index worksheet: over of:	✓ No ☐  4  5  80.0  x 1  x 2  x 3	(B) (A/B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua  Remarks:  VEGETATION - Use Scientific   Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5 6 7	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10  20 10	Dominant Species? Yes Yes  Total cover = 50% 4	Indicator Status FAC FAC = 20% FACW FACU	Dominance Number of I That Are OB Total Number Species Acro Percent of I That Are OB  Prevalence I Total % Co OBL species FACW species FACW species FACU species	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant oss All Strata: Dominant Species L, FACW, or FAC: Index worksheet: over of:	✓ No ☐  4  5  80.0  x 1  x 2  x 3  x 4	(B) (A/B)
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua  Remarks:  VEGETATION - Use Scientific   Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5 6 7	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10  20 10	Dominant Species? Yes Yes  Total cover = 50% 4	Indicator Status FAC FAC = 20% FACW FACU	Dominance Number of I That Are OB Total Number Species Acro Percent of I That Are OB  Prevalence I Total % Co OBL species FACW species FACW species FACU species FACU species FACU species FACU species FACU species	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant oss All Strata: Dominant Species L, FACW, or FAC: Index worksheet: over of:	✓ No ☐  4  5  80.0  x 1  x 2  x 3  x 4  x 5	(B) (A/B) Itiply by:
Field Observations: Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gua  Remarks:  VEGETATION - Use Scientific   Tree Stratum (Plot size: 30 ft  1 Liquidambar styraciflua  2 Acer rubrum  3 4 5 6 7	No Depth (inches) No Depth (inches) No Depth (inches) Ige, monitoring well, aer	Absolute % Cover 10 10 10 15	Dominant Species? Yes Yes  Total cover = 50% 4	Indicator Status FAC FAC = 20% FACW FACU	Dominance Number of I That Are OB Total Number Species Acro Percent of I That Are OB  Prevalence I Total % Co OBL species FACW species FACW species FACU species FACU species Column Total	Test worksheet: Dominant Species L, FACW, or FAC: er of Dominant oss All Strata: Dominant Species L, FACW, or FAC: Index worksheet: over of:	✓ No ☐  4  5  80.0  × 1  × 2  × 3  × 4  × 5  (A)	(B) (A/B)



Vegetation (continued)				Sampling Point: DP-2W
	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 10 ft )	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1				☑ Dominance test is >50%
2 Phragmites australis		Yes	FACW	☐ Prevalence Index is ≤3.01
3				☐ Morphological Adaptations1 (Provide Supporting
4				data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation1 (Explain)
6				1Indicators of hydric soil and wetland hydrology must
7				be present, unless distrubed or problematic.
8				
		= Total Cover	220/	- 6
(Diet size, 10ft )	35	= 50% 14	= 20%	Definitions of Vegetation Strata:
Woody-vine Stratum (Plot size: 10ft )				Tree: Woody plants 3 in. (7.6cm) or more in diameter
1				at breast height (DBH), regardless of height.  Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater then 3.28 ft (1m) tall.
4				Herb: All herbaceous (non-woody) plants, regardless
5				of size, and woody plants less than 3.28 ft tall.
6				Woody Vines: All woody vines greater than 3.28 ft in
7				height.
		= Total Cover		
		= 50%	= 20%	Hydrophytic Vegetation Present? Yes ✓ No
Remarks: (Include photo numbers here or on a separa	ate sheet.)			
SOIL	<del></del>	<del></del>	<del></del> "	
D. C. D /D		·	اء ماد	Control of the distance A
Profile Description: (Describe to the depth needed to			firm the ar	bsence of indicators.)
Depth Matrix	Redox Feature	1 2		5
(inches) Color (moist) % Color (moist	t) % T	vno <sup>+</sup> loc	LOVE	
		·	Text	
0-2 10YR 2/1 100		<u></u>	silt lo	oam
0-2         10YR 2/1         100            2-8         10YR 4/2         90         10YR 5/6	10	 C PL	silt lo	oam oam
0-2 10YR 2/1 100		<u></u>	silt lo	oam oam
0-2         10YR 2/1         100            2-8         10YR 4/2         90         10YR 5/6	10	 C PL	silt lo	oam oam
0-2         10YR 2/1         100            2-8         10YR 4/2         90         10YR 5/6	10	 C PL	silt lo	oam oam
0-2 10YR 2/1 100 2-8 10YR 4/2 90 10YR 5/6 8-16 10YR 5/2 90 10YR 5/6	10 10	C PL PL	silt lo	oam oam oam
0-2 10YR 2/1 100 2-8 10YR 4/2 90 10YR 5/6 8-16 10YR 5/2 90 10YR 5/6   Type: C=Concentration, D=Depletion, RM=Reduced N	10 10	C PL PL	silt lo	Doam Doam Doam Doam  Location: PL=Pore Lining, M=Matrix.
0-2 10YR 2/1 100 2-8 10YR 4/2 90 10YR 5/6 8-16 10YR 5/2 90 10YR 5/6   Type: C=Concentration, D=Depletion, RM=Reduced N Hydric Soil Indicators:	10 10 10 Matrix, CS=Cover	C PL C PL	silt lo	. 2 Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils 3:
0-2 10YR 2/1 100 2-8 10YR 4/2 90 10YR 5/6 8-16 10YR 5/2 90 10YR 5/6   Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)	10 10 10 Matrix, CS=Cover	C PL C PL red or Coated Sa	silt lo	2 cm Muck (A10) (LRR K, L, MLRA 149B)
0-2 10YR 2/1 100 2-8 10YR 4/2 90 10YR 5/6 8-16 10YR 5/2 90 10YR 5/6   Type: C=Concentration, D=Depletion, RM=Reduced N Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2)	10 10 Matrix, CS=Cover	C PL C PL red or Coated Sa	silt lo	2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
0-2	10 10 Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surface	red or Coated Sav Surface (S8) (LIRR R, N	silt lo silt lo silt lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
0-2	Thin Dark Surfac	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Mineral (F1) (LRR	silt lo silt lo silt lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)
0-2	Matrix, CS=Cover Polyvalue Below MIRA 149B) Thin Dark Surfac Loamy Mucky M	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, National (F1) (LRR Matrix (F2)	silt lo silt lo silt lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  This Peak Surface (S8) (LRR K, L)
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  ☐ Histosol (A1) ☐  ☐ Black Histic (A3) ☐  ☐ Hydron Sulfide (A4) ☐  ☐ Stratified Layers (A5) ☐  ☐ Depleted Below Dark Surface (A11) ☐  ☐	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F2) (LRR K, Matrix (F2) x (F3))	silt lo silt lo silt lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1 Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  ☐ Histosol (A1) ☐ ☐ Histic Epipedon (A2) ☐ ☐ Black Histic (A3) ☐ ☐ Hydron Sulfide (A4) ☐ ☐ Stratified Layers (A5) ☐ ☐ Depleted Below Dark Surface (A11) ☐ ☐ Thick Dark Surface (A12) ☐	Thin Dark Surfactory Mucky Muc	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Mineral (F1) (LRR Matrix (F2) x (F3) face (F6)	silt lo silt lo silt lo and Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1 Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  ☐ Histosol (A1) ☐ ☐  ☐ Black Histic (A3) ☐ ☐  ☐ Hydron Sulfide (A4) ☐ ☐  ☐ Stratified Layers (A5) ☐ ☐  ☐ Depleted Below Dark Surface (A11) ☐ ☐  ☐ Thick Dark Surface (A12) ☐ ☐  ☐ Sandy Mucky Mineral (S1) ☐ ☐	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed N Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
0-2	Thin Dark Surfactory Mucky Muc	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
0-2	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed N Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)
0-2	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed N Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Note (F1) (LRR (F3) (F3) (F3) (F6) (F6) (F6) (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyd	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Note (F1) (LRR (F3) (F3) (F3) (F6) (F6) (F6) (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Note (F1) (LRR (F3) (F3) (F3) (F6) (F6) (F6) (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	Doam    Coam   C
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyd  Restrictive Layer (if observed):  Type:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	Doam    Coam   C
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyd  Restrictive Layer (if observed):  Type:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	Doam    Coam   C
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyd  Restrictive Layer (if observed):  Type:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	Doam    Coam   C
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyd  Restrictive Layer (if observed):  Type:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	Doam    Coam   C
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyd  Restrictive Layer (if observed):  Type:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	Doam    Coam   C
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyd  Restrictive Layer (if observed):  Type:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	Doam    Coam   C
0-2 10YR 2/1 100  2-8 10YR 4/2 90 10YR 5/6  8-16 10YR 5/2 90 10YR 5/6   1Type: C=Concentration, D=Depletion, RM=Reduced N  Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyd  Restrictive Layer (if observed):  Type:	Matrix, CS=Cover Polyvalue Below MLRA 149B) Thin Dark Surfar Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surf	red or Coated Sav Surface (S8) (Lice (S9) (LRR R, Note (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, MLRA 149B K, L)	Doam    Coam   C



Project/Site: Dzus wetlands			County: Suffolk	County		Sampling Date: 3	/12/18
Applicant/Owner: DEC					State: NY	Sampling Point:	DP-3W
Investigator(s): TMK			Section, T	ownship, Ra	inge: West Islip		
Landform (hillslope, terrace, etc.):	hillslope			Local Relief	f (concave, convex, n	one): convex	
Slope %: <5% Latitude:	40° 42' 11" N		Longitude:	<b>-</b> 73° 18' 01"	W	Datum: NAD83	
Subregion (LRR or MLRA)	Soil Map Unit Name	: RhB				Classification: PEM	
Are climatic/hydrologic conditions of	_		ear? Yes	s☑ No 🗆			
Are Vegetation ☐, Soil ☐, or hydr		-			cumstances" present	·	
Are Vegetation ☐, Soil ☐, or hydr					ain any answers in re		
-					•		
SUMMARY OF FINDINGS - At	ttach site map sho	ing sampl	ing point lo	cations, tr	ansects, importa	int features, etc.	
Hydrophytic Vegetation Present?	Yes ✓ No□		Is the Sam	npled Area v	within a Wetland?	Yes ✓ No□	
Hydric Soil Present?	Yes ✓ No□						
Wetland Hydrology Present?	Yes ☑ No□		If yes, opt	tional Wetlar	nd Site ID: Wetlan	d <u>F</u>	
Remarks: (Explain alternative proce	dures here or in a sepa	arate report.	)				<del></del> _
phragmites dominated emergent w	etland						
::::::::::::::::::::::::::::::::::::::							
HYDROLOGY Wetland Hydrology Indicators:					Second	· · · · · disators /minimus	-f J/
Wetland Hydrology Indicators: Primary Indicators (minimum of one	e is required: check all	that apply)				ary Indicators (minimur Irface Soil Cracks (B6)	n oτ ∠)
Surface Water (A1)			ned Leaves (B9)	)		rainage Patterns (B10)	
☐ High Water Table (A2)		Aquatic Fau		,		oss Trim Lines (B16)	
Saturation (A3)		Marl Depos				ry-Season Water Table	(C2)
Water Marks (B1)			Sulfide Odor (Ci	-		ayfish Burrows (C8)	1 (00)
✓ Sediment Deposits (B2)  ☐ Drift Deposits (B3)	<b>▽</b>		nizospheres on f Reduced Iron	-		turation Visible on Aeri unted or Stressed Plant	
Algal Mat or Crust (B4)			Reduction in 1			eomorphic Position (D2	` '
☐ Iron Deposits (B5)	_	Thin Muck !	Surface (C7)		□ Sh	allow Aquitard (D3)	
Inundation Visible on Aerial Im		Other (Expl	ain in Remarks	.)	□ М	icrotopographic Relief	(D4)
☐ Sparsely Vegetated Concave S	urface (B8)				☐ F <i>F</i>	AC-Neutral Test (D5)	
Field Observations: Surface Water Present? Yes □	No ☑ Depth (inche	1.					
Surface Water Present? Yes  Water Table Present? Yes	No Depth (inche	· -	<del></del>				
Saturation Present? Yes	No Depth (inche			Wetland	d Hydrology Present?	Yes 📝 No	
(includes capillary fringe)				) :C-			
Describe Recorded Data (stream gu	age, monitoring well, a	aerial photos	, previous insp	ections), it a	ivailable:		
Remarks:							
Nemarks.							
VEGETATION - Use Scientific	Names of Plants.						
\[ \text{Loc} \\	14011100						
		Absolute	Dominant	Indicator I	Dominance Test wor	ksheet:	
Tree Stratum (Plot size: 30 ft	_)	Absolute % Cover	Dominant Species?	Status	Number of Dominan	t Species	
1	_)			Status		t Species	(A)
1 2	_)			Status	Number of Dominan That Are OBL, FACW,	t Species or FAC: 2	(A)
1	_)			Status	Number of Dominan	t Species or FAC: 2	
1 2 3	_)			Status	Number of Dominan That Are OBL, FACW, Total Number of Dor	t Species or FAC: 2	(A) (B)
1 2 3 4	_)			Status	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant	t Species or FAC: 2 ninant rata: 2 Species	(B)
1 2 3 4 5	_)	% Cover	Species?	Status	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str	t Species or FAC: 2 ninant rata: 2 Species	(B)
1 2 3 4 5	_)	% Cover	Species?  Total cover	Status	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant	t Species or FAC: 2 ninant rata: 2 Species	(B)
1 2 3 4 5 6	)	% Cover	Species?	Status	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant	t Species or FAC:  2 ninant rata: 2 Species or FAC: 100.0	(B)
1 2 3 4 5 6		% Cover	Species?  Total cover	Status	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant That Are OBL, FACW,	t Species or FAC:  2  ninant rata: 2  Species or FAC: 100.0	(B)
1 2 3 4 5 6 7 Sapling/Shrub Stratum (Plot size		% Cover	Species?  Total cover	Status	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant That Are OBL, FACW,  Prevalence Index wo Total % Cover of: OBL species	t Species or FAC: 2  ninant rata: 2  Species or FAC: 100.0  rksheet: Mult x 1	(B) (A/B)
1 2 3 4 5 6 7 Sapling/Shrub Stratum (Plot size) 1 2 3		% Cover	Species?  Total cover	Status = 20%	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant That Are OBL, FACW,  Prevalence Index wo Total % Cover of: OBL species FACW species	t Species or FAC: 2  ninant rata: 2  Species or FAC: 100.0  rksheet: Mult	(B) (A/B)
1		% Cover	Species?  Total cover	= 20%	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant That Are OBL, FACW,  Prevalence Index wo Total % Cover of: OBL species FACW species FAC species FAC species	t Species or FAC: 2  ninant rata: 2  Species or FAC: 100.0  rksheet: Mult	(B) (A/B)
1 2 3 4 5 6 7 Sapling/Shrub Stratum (Plot size) 1 2 3		% Cover	Species?  Total cover	= 20%	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant That Are OBL, FACW,  Prevalence Index wo Total % Cover of: OBL species FACW species	t Species or FAC: 2  ninant rata: 2  Species or FAC: 100.0  rksheet: Mult	(B) (A/B)
1 2 3 4 5 6 7 Sapling/Shrub Stratum (Plot size 1 2 3 4 5		% Cover	Species?  Total cover	= 20%	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant That Are OBL, FACW,  Prevalence Index wo Total % Cover of: OBL species FACW species FAC species FACU species FACU species	t Species or FAC: 2  ninant rata: 2  Species or FAC: 100.0  rksheet: Mult	(B) (A/B)
1		% Cover	Species?  Total cover	= 20%	Number of Dominan That Are OBL, FACW, Total Number of Dor Species Across All Str Percent of Dominant That Are OBL, FACW,  Prevalence Index wo Total % Cover of: OBL species FACW species FAC species FACU species UPL Species	t Species or FAC: 2  ninant rata: 2  Species or FAC: 100.0  rksheet: Mult	(A/B)



				Sampling Point: DP-3W
1	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 10 ft )	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1				☑ Dominance test is >50%
2 Phragmites australis	80	Yes	FACW	☐ Prevalence Index is ≤3.01
3	_			☐ Morphological Adaptations1 (Provide Supporting
4				data in Remarks or on a separate sheet)
5	<b>-</b>			☐ Problematic Hydrophytic Vegetation1 (Explain)
6	<u> </u>			Indicators of hydric soil and wetland hydrology must
7				be present, unless distrubed or problematic.
8				
		Total Cover		
	40 = 5	50% 16	= 20%	Definitions of Vegetation Strata:
Woody-vine Stratum (Plot size: 10ft )				Tree: Woody plants 3 in. (7.6cm) or more in diameter
1 Lonicera japonica	10	Yes	FAC	at breast height (DBH), regardless of height.
2				Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater then 3.28 ft (1m) tall.
5				Herb: All herbaceous (non-woody) plants, regardless
[ <del></del>				of size, and woody plants less than 3.28 ft tall.
6				Woody Vines: All woody vines greater than 3.28 ft in
	10 = 1	Total Cover		height.
		50% <b>2</b>	= 20%	Hydrophytic Vegetation Present? Yes No
		3070		Hydrophytic Vegetation Present? Yes  No
Remarks: (Include photo numbers here or on a separat	choot \			
Remarks: (include photo numbers here or on a separat	e sneet.)			
SOIL				
SOIL				
Profile Description: (Describe to the depth needed to	document the ind	dicator or conf	irm the al	bsence of indicators.)
	Redox Features			•
(inches) Color (moist) % Color (moist)	% Туре	e <sup>1</sup> Loc <sup>2</sup>	Text	ure Remarks
0-6 10YR 2/1 100			alluvi	
6-10 10YR 4/2 95 10YR 4/4			silt lo	
10-18 10YR 4/1 100			silt lo	
<del>                                     </del>				
<del>                                     </del>				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced M	atrix, CS=Covered	d or Coated Sa		2
			nd Grains.	
IHvdric Soil Indicators:			nd Grains.	2
Hydric Soil Indicators:  ☐ Histosol (A1) ☐ P	olvvalue Below Si	urface (S8) <b>(LF</b>		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Below Si	urface (S8) <b>(LF</b>		Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Histosol (A1) ☐ P ☐ Histic Epipedon (A2) ☐	MLRA 149B)		RR R,	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
☐ Histosol (A1)       ☐ P         ☐ Histic Epipedon (A2)       ☐         ☐ Black Histic (A3)       ☐ T	MLRA 149B) Thin Dark Surface	(S9) <b>(LRR R, N</b>	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Histosol (A1)       ☐ P         ☐ Histic Epipedon (A2)       ☐         ☐ Black Histic (A3)       ☐ T         ☐ Hydron Sulfide (A4)       ☐ L	MLRA 149B) Thin Dark Surface oamy Mucky Min	(S9) <b>(LRR R, N</b> neral (F1) <b>(LRR</b>	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)
Histosol (A1) P Histic Epipedon (A2) T Black Histic (A3) T Hydron Sulfide (A4) L Stratified Layers (A5)	MLRA 149B) Thin Dark Surface Coamy Mucky Min Coamy Gleyed Mat	(S9) <b>(LRR R, N</b> neral (F1) <b>(LRR</b> trix (F2)	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)	MLRA 149B)  Thin Dark Surface to the comment of the	(S9) <b>(LRR R, M</b> neral (F1) <b>(LRR</b> trix (F2) F3)	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  R	MLRA 149B) Thin Dark Surface Coamy Mucky Min Coamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac	(S9) <b>(LRR R, N</b> neral (F1) <b>(LRR</b> trix (F2) F3) te (F6)	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur	(S9) (LRR R, M neral (F1) (LRR trix (F2) F3) te (F6) face (F7)	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)	MLRA 149B) Thin Dark Surface Coamy Mucky Min Coamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac	(S9) (LRR R, M neral (F1) (LRR trix (F2) F3) te (F6) face (F7)	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur	(S9) (LRR R, M neral (F1) (LRR trix (F2) F3) te (F6) face (F7)	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur	(S9) (LRR R, M neral (F1) (LRR trix (F2) F3) te (F6) face (F7)	RR R, ILRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Histosol (A1) P Histic Epipedon (A2) Black Histic (A3) T Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydrores.	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Histosol (A1) P Histic Epipedon (A2) Black Histic (A3) T Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Histosol (A1) P Histic Epipedon (A2) Black Histic (A3) T Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B) Indicators of hydrophtic vegetation and wetland hydrores.	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Histosol (A1) P Histic Epipedon (A2) Black Histic (A3) T Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Histosol (A1) P Histic Epipedon (A2) Black Histic (A3) T Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Histosol (A1) P Histic Epipedon (A2) Black Histic (A3) T Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Histosol (A1) P Histic Epipedon (A2) Black Histic (A3) T Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	MLRA 149B) Thin Dark Surface Loamy Mucky Min Loamy Gleyed Mat Depleted Matrix (F Redox Dark Surfac Depleted Dark Sur Redox Depressions	(S9) (LRR R, M heral (F1) (LRR trix (F2) F3) te (F6) rface (F7) s (F8)	RR R, ILRA 149B K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
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		city/ county.	Suffolk County		Sampling Date: 3,	/12/18
Applicant/Owner: DEC				State: NY	Sampling Point:	DP-4W
Investigator(s): TMK		Sec	tion, Township, R	ange: West Isli	p	
Landform (hillslope, terrace, etc.):	hillslope		Local Relie	ef (concave, conve	ex, none): convex	
Slope %: <5% Latitude:	40° 42' 11" N	Longi	 itude: 73° 18' 01'	" W	Datum: NAD83	
Subregion (LRR or MLRA)		RhB	· · · · · · · · · · · · · · · · · · ·		NWI Classification: PEM	
Are climatic/hydrologic conditions of	<del>-</del> ·		Yes ☑ No ☐		ain in Remarks.)	
Are Vegetation ☐, Soil ☐, or hydr	• •	-		cumstances" pre	•	
Are Vegetation ☐, Soil ☐, or hydr				ain any answers i		
-				•		
SUMMARY OF FINDINGS - At	tach site map shoing	g sampling poi	nt locations, t	ransects, impo	ortant features, etc.	
Hydrophytic Vegetation Present?	Yes ☑ No□	ls t	he Sampled Area	within a Wetland	i? Yes ☑ No□	
Hydric Soil Present?	Yes ☑ No□					
Wetland Hydrology Present?	Yes ☑ No□	If yo	es, optional Wetla	and Site ID: We	etland G	
Remarks: (Explain alternative proce	dures here or in a separat	e report.)		-		
		•				
phragmites dominated emergent w	etland					
HYDROLOGY Wetland Hydrology Indicators				200	1 11 - Completing	1
Wetland Hydrology Indicators: Primary Indicators (minimum of one	s is required; check all tha	+ annly)			condary Indicators (minimun Surface Soil Cracks (B6)	n of 2)
Surface Water (A1)	•	<u>rt app</u> ly) 'ater Stained Leav	مد (R9)			
High Water Table (A2)	_	quatic Fauna (B13)		_	Moss Trim Lines (B16)	
Saturation (A3)	M	arl Deposits (B15)	)		Dry-Season Water Table (	C2)
Water Marks (B1)		drogen Sulfide O			Crayfish Burrows (C8)	- · - •
Sediment Deposits (B2)		· · · · · · · · · · · · · · · · · · ·	res on Living Root	:s (C3)	Saturation Visible on Aeria	
☐ Drift Deposits (B3) ☐ Algal Mat or Crust (B4)		esence of Reduce ecent Iron Reducti	ed Iron (C4) ion in Tilled Soils (	(CE)	<ul><li>Stunted or Stressed Plants</li><li>Geomorphic Position (D2)</li></ul>	` '
☐ Algal Mat or Crust (B4) ☐ Iron Deposits (B5)		nin Muck Surface (			Shallow Aquitard (D3)	
Inundation Visible on Aerial Im		ther (Explain in Re		- [	Microtopographic Relief (	D4)
☐ Sparsely Vegetated Concave S	urface (B8)				FAC-Neutral Test (D5)	
Field Observations:						<del></del>
Curfoso Motor Drocopt / V	All	1				
Surface Water Present? Yes  Water Table Present? Yes	No ☐ Depth (inches):					
Water Table Present? Yes Saturation Present? Yes	No Depth (inches):  No Depth (inches):  No Depth (inches):		Wetlan	d Hydrology Pres	ent? Yes 🗔 No 🗀	
Water Table Present? Yes ☐ Saturation Present? Yes ☐ (includes capillary fringe)	No Depth (inches):  No Depth (inches):	surface		,	ent? Yes  No No	
Water Table Present? Yes ☐ Saturation Present? Yes ☑	No Depth (inches):  No Depth (inches):	surface		,	ent? Yes ☑ No☐	
Water Table Present? Yes ☐ Saturation Present? Yes ☐ (includes capillary fringe) Describe Recorded Data (stream gu	No Depth (inches):  No Depth (inches):	surface		,	ent? Yes ☑ No□	
Water Table Present? Yes ☐ Saturation Present? Yes ☐ (includes capillary fringe)	No Depth (inches):  No Depth (inches):	surface		,	ent? Yes ☑ No ☐	
Water Table Present? Yes ☐ Saturation Present? Yes ☐ (includes capillary fringe) Describe Recorded Data (stream gu	No Depth (inches):  No Depth (inches):	surface		,	ent? Yes ☑ No ☐	
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gu	No	surface		,	ent? Yes ☑ No ☐	
Water Table Present? Yes ☐ Saturation Present? Yes ☐ (includes capillary fringe) Describe Recorded Data (stream gu	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria	surface al photos, previou	us inspections), if a	available:		
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gu	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface	us inspections), if a	,	worksheet:	
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)  Describe Recorded Data (stream gu  Remarks:  VEGETATION - Use Scientific	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface al photos, previou	us inspections), if a	available:  Dominance Test	worksheet: inant Species	(A)
Water Table Present? Yes Saturation Present? Yes Situration Present? Yes Saturation Present? Yes Situration Present? Yes Situration Present? Yes Situration Present Stream gulled Stream gulled Stream gulled Stream gulled Stream Stream Gulled	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface al photos, previou	us inspections), if a	Dominance Test Number of Domi	worksheet: inant Species iCW, or FAC: 3	(A)
Water Table Present? Yes Saturation Present? Yes Situration Present? Yes Saturation Present? Yes Situration Present? Yes Situration Present? Yes Situration Present Stream gulled Stream gulled Stream gulled Stream gulled Stream	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface al photos, previou	us inspections), if a	Dominance Test Number of Domi That Are OBL, FA	worksheet: inant Species iCW, or FAC: 3	
Water Table Present? Yes Saturation Present? Yes Situration Present? Yes Saturation Present? Yes Situration Present? Yes Situration Present? Yes Situration Present Stream gulled Stream gulled Stream gulled Stream gulled Stream Stream Gulled	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface al photos, previou	us inspections), if a	Dominance Test Number of Domi	worksheet: inant Species iCW, or FAC: 3	(A)
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)  Describe Recorded Data (stream guing Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft 1 2 3 4	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface al photos, previou	us inspections), if a	Dominance Test Number of Domi That Are OBL, FA	worksheet: inant Species iCW, or FAC: 3  Dominant II Strata: 3	
Water Table Present? Yes Saturation Present? Yes Situration Present? Yes Saturation Present? Yes Situration Present? Yes Situration Present? Yes Situration Present Stream gulled Stream gulled Stream gulled Stream gulled Stream Stream Gulled	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface al photos, previou	us inspections), if a	Dominance Test Number of Domi That Are OBL, FA Total Number of Species Across A	worksheet: inant Species inant Species inant Species inant Species inant Species	
Water Table Present? Yes Saturation Present? Yes Situration Present? Yes Saturation Present? Yes Situration Present? Yes Situration Present? Yes Situration Present Stream gulled Stream gulled Stream gulled Stream gulled Stream Stream Gulled	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface  al photos, previou  bsolute Domin 6 Cover Specio	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA Total Number of Species Across A Percent of Domi	worksheet: inant Species inant Species inant Species inant Species inant Species	(B)
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)  Describe Recorded Data (stream gu  Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft 1 2 3 4 5 6 7 5 6 7 7	No Depth (inches): No Depth (inches): age, monitoring well, aeria  Names of Plants.  At	surface  al photos, previou  bsolute Domin 6 Cover Speci	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA Total Number of Species Across A Percent of Domi That Are OBL, FA	worksheet: inant Species inant Species in Strata:  Il Strata: in Species in S	(B)
Water Table Present? Yes Saturation Present? Yes Situration Present? Yes Saturation Present? Yes Situration Present? Yes Situration Present? Yes Situration Present? Yes Situration Stream gulled Stre	No  □ Depth (inches): No  □ Depth (inches): age, monitoring well, aeria  Names of Plants.	surface  al photos, previou  bsolute Domin 6 Cover Specio	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA Total Number of Species Across A Percent of Domi That Are OBL, FA	worksheet: inant Species inant	(B) (A/B)
Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)  Describe Recorded Data (stream gu  Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft 1 2 3 4 5 6 7 5 6 7 7	No Depth (inches): No Depth (inches): age, monitoring well, aeria  Names of Plants.  At	surface  al photos, previou  bsolute Domin 6 Cover Specio	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA Total Number of Species Across A Percent of Domi That Are OBL, FA	worksheet: inant Species inant	(B)
Water Table Present? Yes Saturation Present Stream gulled Stream gulled Present Stream gulled Pr	No Depth (inches): No Depth (inches): age, monitoring well, aeria  Names of Plants.  At	surface  al photos, previou  bsolute Domin 6 Cover Specio	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA Total Number of Species Across A Percent of Domi That Are OBL, FA	worksheet: inant Species inant	(B) (A/B)
Water Table Present? Yes Saturation Present? Yes Sapling/Shrub Stratum (Plot size: 30 ft 1 2 3 4 5 6 7 5 6 7 5 6 7 5 6 7 5 6 7 6 7 6 7 6	No Depth (inches): No Depth (inches): age, monitoring well, aeria  Names of Plants.  At	surface  al photos, previou  bsolute Domin 6 Cover Specio	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA Total Number of Species Across A Percent of Domi That Are OBL, FA  Prevalence Index Total % Cover of OBL species FACW species FAC species	worksheet: inant Species inant	(B) (A/B)
Water Table Present? Yes Saturation Present Stream gull Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft	No Depth (inches): No Depth (inches): age, monitoring well, aeria  Names of Plants.  At	surface  al photos, previou  bsolute Domin 6 Cover Specio	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA Total Number of Species Across A Percent of Domi That Are OBL, FA  Prevalence Index Total % Cover of OBL species FACW species FACW species FACU species FACU species	worksheet: inant Species inant	(B) (A/B)
Water Table Present? Yes Saturation Present Stream gull Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft	No Depth (inches): No Depth (inches): age, monitoring well, aeria  Names of Plants.  At	surface  al photos, previou  bsolute Domin 6 Cover Specio	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA  Total Number of Species Across A  Percent of Domi That Are OBL, FA  Prevalence Index Total % Cover of OBL species FACW species FACW species FACU species UPL Species	worksheet: inant Species inant	(A/B)
Water Table Present? Yes Saturation Present Stream gull Remarks:  VEGETATION - Use Scientific  Tree Stratum (Plot size: 30 ft	No Depth (inches): No Depth (inches): age, monitoring well, aeria  Names of Plants.  At	surface  al photos, previou  bsolute Domin 6 Cover Specio	nant Indicator es? Status	Dominance Test Number of Domi That Are OBL, FA  Total Number of Species Across A  Percent of Domi That Are OBL, FA  Prevalence Index Total % Cover of OBL species FACW species FACW species FACU species UPL Species Column Totals:	worksheet: inant Species inant	(B) (A/B)



				Sampling Point: DP-4W
	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 10 ft )	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1 Bohemeria cylindrica	10	No	OBL	☐ Dominance test is >50%
2 Phragmites australis	2	No	FACW	☐ Prevalence Index is ≤3.01
3 Impatiens capensis	60	Yes	OBL	☐ Morphological Adaptations1 (Provide Supporting
4 Onoclea sensibilis	20	Yes	OBL	data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation1 (Explain)
6				1Indicators of hydric soil and wetland hydrology must
7				be present, unless distrubed or problematic.
8				
	92	= Total Cover		
	46	= 50% 18	= 20%	Definitions of Vegetation Strata:
Woody-vine Stratum (Plot size: 10ft )				Tree: Woody plants 3 in. (7.6cm) or more in diameter
1 Lonicera japonica	5	Yes	FAC	at breast height (DBH), regardless of height.
2				Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater then 3.28 ft (1m) tall.
4				Herb: All herbaceous (non-woody) plants, regardless
5				of size, and woody plants less than 3.28 ft tall.
6				Woody Vines: All woody vines greater than 3.28 ft in
7		<del></del>		height.
		= Total Cover		
	5	= 50% 2	= 20%	Hydrophytic Vegetation Present? Yes  No
Remarks: (Include photo numbers here or on a separate	e sheet.)			
SOIL				
Description: (Describe to the depth needed to d	- cumont the	disator or con		harman of indicators \
Profile Description: (Describe to the depth needed to depth Matrix			iliii tiie ai	osence of indicators.)
· — — — — — — — — — — — — — — — — — — —	Redox Feature	1 3		
(inches) Color (moist) % Color (moist)	% T		T	Bernell's
		ype <sup>1</sup> Loc <sup>2</sup>	Text	
0-2 10YR 2/1 100			silt lo	pam
0-2         10YR 2/1         100            2-12         10YR 5/1         95         10YR 4/6	<u></u> <u>5</u>		silt lo	pam pam
0-2 10YR 2/1 100			silt lo	pam pam
0-2         10YR 2/1         100            2-12         10YR 5/1         95         10YR 4/6			silt lo	pam pam
0-2         10YR 2/1         100            2-12         10YR 5/1         95         10YR 4/6			silt lo	pam pam
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6 12-16 10YR 4/1 100	5	C PL	silt lo	pam pam
0-2         10YR 2/1         100            2-12         10YR 5/1         95         10YR 4/6	5	C PL	silt lo	Dam Doam Doam  Location: PL=Pore Lining, M=Matrix.
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6 12-16 10YR 4/1 100	5	C PL	silt lo	pam pam
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  Type: C=Concentration, D=Depletion, RM=Reduced Ma Hydric Soil Indicators:	5 satrix, CS=Cover	C PL	silt lo	Dam Doam  Doam  Location: PL=Pore Lining, M=Matrix.
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100   Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) Po  Histic Epipedon (A2)	strix, CS=Cover	red or Coated Sa	silt lo	2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100   Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) Po  Histic Epipedon (A2)	strix, CS=Cover	C PL	silt lo	2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
0-2 10YR 2/1 100	strix, CS=Cover Dlyvalue Below MLRA 149B) nin Dark Surface	red or Coated Sa	silt lo silt lo silt lo nd Grains.	2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
0-2 10YR 2/1 100	strix, CS=Cover Dlyvalue Below MLRA 149B) nin Dark Surface	red or Coated Sav Surface (S8) (LIRR R, Mineral (F1) (LRR	silt lo silt lo silt lo nd Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
0-2 10YR 2/1 100	strix, CS=Cover blyvalue Below MLRA 149B) nin Dark Surfac pamy Mucky N	red or Coated Sav Surface (S8) (LIRR R, Mineral (F1) (LRR Matrix (F2)	silt lo silt lo silt lo nd Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)
0-2 10YR 2/1 100	strix, CS=Cover Dlyvalue Below MLRA 149B) nin Dark Surfac Damy Mucky Noamy Gleyed N	red or Coated Sav Surface (S8) (LIRR R, Mineral (F1) (LRR Matrix (F2) x (F3)	silt lo silt lo silt lo nd Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  This Peak Surface (S8) (LRR K, L)
0-2 10YR 2/1 100	blyvalue Below MLRA 149B) nin Dark Surfac Damy Mucky Moamy Gleyed Nepleted Matrix	red or Coated Sav Surface (S8) (LIRR R, N Mineral (F1) (LRR Matrix (F2) x (F3) face (F6)	silt lo silt lo silt lo nd Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)
0-2   10YR 2/1   100       2-12   10YR 5/1   95   10YR 4/6     12-16   10YR 4/1   100	blyvalue Below MLRA 149B) nin Dark Surfac Damy Mucky Moamy Gleyed Nepleted Matrix	red or Coated Sav Surface (S8) (LIRR R, Mineral (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo nd Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
0-2 10YR 2/1 100	blyvalue Below MLRA 149B) nin Dark Surface Damy Mucky Moamy Gleyed Nepleted Matrix edox Dark Surfe	red or Coated Sav Surface (S8) (LIRR R, Mineral (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo nd Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
0-2   10YR 2/1   100       2-12   10YR 5/1   95   10YR 4/6     12-16   10YR 4/1   100	blyvalue Below MLRA 149B) nin Dark Surface Damy Mucky Moamy Gleyed Nepleted Matrix edox Dark Surfe	red or Coated Sav Surface (S8) (LIRR R, Mineral (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo nd Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 1445, 149B)
0-2	blyvalue Below MLRA 149B) nin Dark Surface Damy Mucky Moamy Gleyed Nepleted Matrix edox Dark Surfe	red or Coated Sav Surface (S8) (LIRR R, Mineral (F1) (LRR Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo nd Grains.	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)
0-2	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo nd Grains. RR R, ILRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
0-2 10YR 2/1 100	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Stratified Layers (A5) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Thick Dark Surface (A12) Re Sandy Mucky Mineral (S1) De Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed):	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	Dam
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Hydron Sulfide (A4) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Stratified Layers (A5) Re Sandy Mucky Mineral (S1) Re Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Stratified Layers (A5) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Thick Dark Surface (A12) Re Sandy Mucky Mineral (S1) De Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed):	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	Dam
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Hydron Sulfide (A4) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Stratified Layers (A5) Re Sandy Mucky Mineral (S1) Re Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	Dam
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Hydron Sulfide (A4) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Stratified Layers (A5) Re Sandy Mucky Mineral (S1) Re Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	Dam
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Hydron Sulfide (A4) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Stratified Layers (A5) Re Sandy Mucky Mineral (S1) Re Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	Dam
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Hydron Sulfide (A4) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Stratified Layers (A5) Re Sandy Mucky Mineral (S1) Re Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	Dam    2
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Hydron Sulfide (A4) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Stratified Layers (A5) Re Sandy Mucky Mineral (S1) Re Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	Dam    2
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Hydron Sulfide (A4) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Stratified Layers (A5) Re Sandy Mucky Mineral (S1) Re Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo and Grains. RR R, ILRA 149B K, L)	Dam
0-2 10YR 2/1 100 2-12 10YR 5/1 95 10YR 4/6  12-16 10YR 4/1 100  1Type: C=Concentration, D=Depletion, RM=Reduced Ma  Hydric Soil Indicators:  Histosol (A1) PC Black Histic (A3) Th Hydron Sulfide (A4) Lo Stratified Layers (A5) Lo Depleted Below Dark Surface (A11) De Stratified Layers (A5) Re Sandy Mucky Mineral (S1) Re Sandy Gleyed Matrix (S4) Re Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro  Restrictive Layer (if observed): Type:	blyvalue Below MLRA 149B) nin Dark Surfactory Damy Gleyed Nepleted Matrix Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Dark Surfactory Edox Depression	red or Coated Sav Surface (S8) (Line (S9) (LRR R, Not Matrix (F2) (KF3) (F3) (F6) (F6) (F6) (F7) (F8)	silt lo silt lo silt lo nd Grains. RR R, ILRA 149B K, L)	Dam    2



Project/Site: Dzus wetlands	City/Co	ounty: Suffolk County		Sampling Date: 3/12/18
Applicant/Owner: DEC			State: NY	Sampling Point: DP-5
Investigator(s): TMK		Section, Township, F	lange: West Islip	<u> </u>
	hillslope		ef (concave, convex, no	ne): convex
· · · · · · · · · · · · · · · · · · ·	40° 42' 11" N	Longitude: 73° 18' 01	•	Datum: NAD83
· — —	Soil Map Unit Name: RhB			Classification:
Are climatic/hydrologic conditions on		ar? Yes☑ No[		
Are Vegetation ☐, Soil ☐, or hydrol			rcumstances" present?	•
Are Vegetation ☐, Soil ☐, or hydrol			lain any answers in rem	
Are vegetation [], 3011 [], or hydron	logy   Haturally problematic:	(II IIEEueu, Cap	Idili dily diisweis iii ien	idiks.j
SUMMARY OF FINDINGS - Atta	ach site map shoing samplir	ng point locations, t	ransects, importar	nt features, etc.
Hydrophytic Vegetation Present?	Yes □ No ☑	Is the Sampled Area	within a Wetland?	res □ No ☑
Hydric Soil Present?	Yes □ No ✓			
Wetland Hydrology Present?	Yes □ No ☑	If yes, optional Wetl	and Site ID:	
Remarks: (Explain alternative procedu		, , ,		
(=	, ,			
upland slope along WUS1 across from	n Wetland A			
HYDROLOGY				
Wetland Hydrology Indicators:				ry Indicators (minimum of 2)
Primary Indicators (minimum of one is	: ·	11(DO)		face Soil Cracks (B6)
Surface Water (A1)	<del>_</del>	ed Leaves (B9)	_	inage Patterns (B10)
☐ High Water Table (A2) ☐ Saturation (A3)	☐ Aquatic Faur ☐ Marl Deposit	,		ss Trim Lines (B16) r-Season Water Table (C2)
Water Marks (B1)		ılfide Odor (C1)		yfish Burrows (C8)
Sediment Deposits (B2)		zospheres on Living Roo		uration Visible on Aerial (C9)
Drift Deposits (B3)	_	Reduced Iron (C4)		nted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron	Reduction in Tilled Soils		omorphic Position (D2)
☐ Iron Deposits (B5)	☐ Thin Muck S			Illow Aquitard (D3)
Inundation Visible on Aerial Imag		in in Remarks)	☐ Mid	crotopographic Relief (D4)
☐ Sparsely Vegetated Concave Surf	face (B8)	4	☐ FAC	C-Neutral Test (D5)
Field Observations:	=			
_	No Depth (inches):			
1	No Depth (inches): Depth (inches):	—— Wetlar	nd Hydrology Present?	Yes No
(includes capillary fringe)	NO[/] Depart (	<del></del>	iu iiyaiolog,	163 [] 110 E
Describe Recorded Data (stream guag	ge, monitoring well, aerial photos,	previous inspections), if	available:	
Remarks:				
No hydrology indicators observed				
= :=: 2:	***			
VEGETATION - Use Scientific N			<u> </u>	<u>.                                      </u>
To Charles (Blot Size) 20 ft	Absolute % Cover	Dominant Indicator	Dominance Test work	
Tree Stratum (Plot size: 30 ft 1 Nyssa Sylvatica	) <u>% Cover</u> <b>15</b>	Species? Status Yes FAC	Number of Dominant : That Are OBL, FACW, o	•
2 Carya ovata	15	Yes FAC Yes FACU	Ifiat Are Obt, racvy, c	or FAC: 1 (A)
3		100	Total Number of Domi	inant
4			Species Across All Stra	
5				
6			Percent of Dominant S	•
7		<del></del>	That Are OBL, FACW, o	or FAC: 25.0 (A/B)
		Total cover		
Sapling/Shrub Stratum (Plot size:	15 =	50% 6 = 20%	Prevalence Index wor	kshapt
1	1010		Total % Cover of:	Multiply by:
2 Rosa multiflora	15	Yes FACU	OBL species	x 1
3			FACW species	x 2
4			FAC species	х 3
5			FACU species	x 4
6			UPL Species	x 5
<sup>7</sup>		Total Causes	Column Totals:	(A) (B)
		Total Cover	Prevalance Index	( = B/A =
	7.5 =	50% 3 = 20%		



				Sampling Point: DP-5
	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 10 ft )	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1				Dominance test is >50%
2				Prevalence Index is ≤3.01
3				Morphological Adaptations1 (Provide Supporting
4				data in Remarks or on a separate sheet)
5	<del>-</del>			
6	_			
6				Indicators of hydric soil and wetland hydrology must
	_			be present, unless distrubed or problematic.
8	_			
		= Total Cover	200/	
		= 50%	= 20%	Definitions of Vegetation Strata:
Woody-vine Stratum (Plot size: 10ft )				Tree: Woody plants 3 in. (7.6cm) or more in diameter
1 Hedera helix	60	Yes	FACU	at breast height (DBH), regardless of height.
2 Lonicera japonica	10	No	FAC	Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater then 3.28 ft (1m) tall.
4	_			Herb: All herbaceous (non-woody) plants, regardless
5				of size, and woody plants less than 3.28 ft tall.
6				Woody Vines: All woody vines greater than 3.28 ft in
7		· · ·		height.
	70	= Total Cover		
	35	= 50% 14	= 20%	Hydrophytic Vegetation Present? Yes ☐ No☐
Remarks: (Include photo numbers here or on a separat	e sheet.)			
Themarks. (melade photo hambers here of on a separat	c sneed,			
L L				
SOIL				
Profile Description: (Describe to the depth needed to o	locument the	indicator or cou	firm the al	hsence of indicators.)
	Redox Feature		the a	series of maleutors.
· · · · · · · · · · · · · · · · · · ·			<b>-</b>	
(inches) Color (moist) % Color (moist)	<u>%</u> T	ype <sup>1</sup> Loc <sup>2</sup>	Text	
0-4 10YR 2/1 100		<u> </u>	silt lo	pam
4-16 10YR 3/2 100		<u> </u>	silt lo	oam
<sup>1</sup> Type: C=Concentration. D=Depletion. RM=Reduced M	atrix. CS=Cove	red or Coated S	and Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Mi	atrix, CS=Cove	red or Coated S	and Grains	<u> </u>
Hydric Soil Indicators:	•			Indicators for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil Indicators:  Histosol (A1)	olyvalue Belov	red or Coated S		Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2)	olyvalue Belov MLRA 149B)	v Surface (S8) <b>(I</b>	.RR R,	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2)	olyvalue Belov MLRA 149B)		.RR R,	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydric Soil Indicators:         □ P           □ Histosol (A1)         □ P           □ Histic Epipedon (A2)         □ T           □ Black Histic (A3)         □ T	olyvalue Belov MLRA 149B) hin Dark Surfa	v Surface (S8) <b>(I</b>	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
Hydric Soil Indicators:  ☐ Histosol (A1) ☐ P ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ T ☐ Hydron Sulfide (A4) ☐ Le	olyvalue Belov MLRA 149B) hin Dark Surfa	v Surface (S8) <b>(I</b> ce (S9) <b>(LRR R,</b> I ⁄lineral (F1) <b>(LR</b>	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydron Sulfide (A4) Stratified Layers (A5)	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N	v Surface (S8) <b>(I</b> ce (S9) <b>(LRR R,</b> I Mineral (F1) <b>(LR</b> Matrix (F2)	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)
Hydric Soil Indicators:  Histosol (A1) P  Histic Epipedon (A2) T  Black Histic (A3) T  Hydron Sulfide (A4) L  Stratified Layers (A5) Depleted Below Dark Surface (A11) D	olyvalue Belov MLRA 149B) hin Dark Surfa pamy Mucky N pamy Gleyed N epleted Matrix	v Surface (S8) (I ce (S9) (LRR R, I Aineral (F1) (LRI Matrix (F2) x (F3)	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)
Hydric Soil Indicators:  Histosol (A1) P  Histic Epipedon (A2) T  Black Histic (A3) T  Hydron Sulfide (A4) L  Stratified Layers (A5) Depleted Below Dark Surface (A11) D  Thick Dark Surface (A12) R	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matriz edox Dark Sur	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6)	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
Hydric Soil Indicators:  Histosol (A1)  Histosol (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)	olyvalue Belov MLRA 149B) hin Dark Surfa boamy Mucky N boamy Gleyed N epleted Matri: edox Dark Sur epleted Dark S	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4)	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matriz edox Dark Sur	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)	olyvalue Belov MLRA 149B) hin Dark Surfa boamy Mucky N boamy Gleyed N epleted Matri: edox Dark Sur epleted Dark S	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6)	olyvalue Belov MLRA 149B) hin Dark Surfa boamy Mucky N boamy Gleyed N epleted Matri: edox Dark Sur epleted Dark S	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	.RR R, MLRA 149B	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Stripped Matrix (S6)	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1) Black Histic (A3) Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydror Restrictive Layer (if observed):	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  Restrictive Layer (if observed):  Type:	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1) Black Histic (A3) Hydron Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hydro Restrictive Layer (if observed):	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophtic vegetation and wetland hydron Restrictive Layer (if observed):  Type: —	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophtic vegetation and wetland hydron Restrictive Layer (if observed):  Type: —	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophtic vegetation and wetland hydron Restrictive Layer (if observed):  Type: —	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
Hydric Soil Indicators:  Histosol (A1)  Histic Epipedon (A2)  Black Histic (A3)  Hydron Sulfide (A4)  Stratified Layers (A5)  Depleted Below Dark Surface (A11)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Dark Surface (S7) (LRR R, MLRA 149B)  3Indicators of hydrophtic vegetation and wetland hydron Restrictive Layer (if observed):  Type: —	olyvalue Belov MLRA 149B) hin Dark Surfa oamy Mucky N oamy Gleyed N epleted Matri edox Dark Sur epleted Dark S edox Depressi	v Surface (S8) (I ce (S9) (LRR R, I Alineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	RR R, MLRA 149B R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
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Project/Site: Dzus wetlands	City/Cour	nty: Suffolk County		Sampling Date: 3/12/18
Applicant/Owner: DEC			State: NY	Sampling Point: DP-6
Investigator(s): TMK		Section, Township, R	ange: West Islip	<del></del>
Landform (hillslope, terrace, etc.): hillsl	ope	Local Relie	ef (concave, convex, no	ne): convex
Slope %: <5% Latitude: 40° 4	•	Longitude: 73° 18' 01		Datum: NAD83
· <del></del>		10 15 10 01		
	Map Unit Name: RhB			Classification:
Are climatic/hydrologic conditions on the	site typical for this time of year?	? Yes☑ No ☐	(If no, explain in	Remarks.)
Are Vegetation ☐, Soil ☐, or hydrology	☐ significantly disturbed?	Are "Normal Cir	cumstances" present?	Yes ☑ No□
Are Vegetation $\ \square$ , Soil $\ \square$ , or hydrology	☐ naturally problematic?	(If needed, expl	ain any answers in rem	narks.)
SUMMARY OF FINDINGS - Attach	site map shoing sampling	point locations, t	ransects, importar	nt features, etc.
Hydrophytic Vegetation Present? Yes			within a Wetland?	
Hydric Soil Present? Yes				
		If was antional Wotls	and Cita ID.	
Wetland Hydrology Present? Yes		If yes, optional Wetla	ind Site ID:	-
Remarks: (Explain alternative procedures I	iere or in a separate report.)			
upland slope between Wetland A and B				
HYDROLOGY				
Wetland Hydrology Indicators:			Seconda	ry Indicators (minimum of 2)
Primary Indicators (minimum of one is req	uired; check all that apply)			face Soil Cracks (B6)
Surface Water (A1)	☐ Water Stained	Leaves (B9)		inage Patterns (B10)
☐ High Water Table (A2)	☐ Aquatic Fauna	(B13)	-	ss Trim Lines (B16)
Saturation (A3)	☐ Marl Deposits	(B15)	Dry	-Season Water Table (C2)
☐ Water Marks (B1)	☐ Hydrogen Sulfi	ide Odor (C1)	☐ Cra	yfish Burrows (C8)
☐ Sediment Deposits (B2)		spheres on Living Root	· · · —	uration Visible on Aerial (C9)
☐ Drift Deposits (B3)	<del>_</del>	educed Iron (C4)		nted or Stressed Plants (D1)
Algal Mat or Crust (B4)		eduction in Tilled Soils (	_	omorphic Position (D2)
☐ Iron Deposits (B5)	Thin Muck Sur	• •		llow Aquitard (D3)
Inundation Visible on Aerial Imagery		in Remarks)	=	crotopographic Relief (D4)
Sparsely Vegetated Concave Surface	(B8)		☐ FAC	C-Neutral Test (D5)
Field Observations:	Double (in the sale			
Surface Water Present? Yes No Water Table Present? Yes No				
Water Table Present? Yes ☐ No ☐ Saturation Present? Yes ☐ No ☐	· · · · · · · · <del></del>	Wetlan	d Hydrology Present?	Yes ☐ No ☐
(includes capillary fringe)		_	u,uo.og,	
Describe Recorded Data (stream guage, m	onitoring well, aerial photos, pr	evious inspections), if	available:	
Remarks:				
No hydrology indicators observed				
VEGETATION - Use Scientific Name	os of Dlants			
VEGETATION - OSE SCIENTIFIC NAME		ominant Indicator	Dominance Test work	sheet:
Tree Stratum (Plot size: 30 ft )		Species? Status	Number of Dominant	
1 Nyssa Sylvatica	15	Yes FAC	That Are OBL, FACW, o	•
2 Carya ovata	10	Yes FACU	ĺ	,
3 Acer rubrum	15	Yes FAC	Total Number of Domi	inant
4 Quercus alba	5	No FACU	Species Across All Stra	ta: <u>6</u> (B)
5				
6			Percent of Dominant S	•
\\ \	45 = T	otal cover	That Are OBL, FACW, o	or FAC: 50.0 (A/B)
	22.5 = 50	otal cover 0% 9 = 20%		
Sapling/Shrub Stratum (Plot size: 10			Prevalence Index wor	ksheet:
1	<u> </u>		Total % Cover of:	Multiply by:
2 Rosa multiflora	15	Yes FACU	OBL species	x 1
3			FACW species	x 2
4			FAC species	x 3
5				
			FACU species	x 4
6			UPL Species	x 5
7			UPL Species Column Totals:	x 5 (A) (B)
7	15 = To	otal Cover 0% 3 = 20%	UPL Species	x 5 (A) (B)



Vegetation (continued)				Sampling Point: DP-6
	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 10 ft )	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1				Dominance test is >50%
2			-	Prevalence Index is ≤3.01
3	_			Morphological Adaptations1 (Provide Supporting
4				data in Remarks or on a separate sheet)
5		· <del></del>		1
6	_			
6				1Indicators of hydric soil and wetland hydrology must
	-			be present, unless distrubed or problematic.
8	_			
		= Total Cover	200/	
		= 50%	= 20%	Definitions of Vegetation Strata:
Woody-vine Stratum (Plot size: 10ft )				Tree: Woody plants 3 in. (7.6cm) or more in diameter
1 Hedera helix	5	Yes	FACU	at breast height (DBH), regardless of height.
2 Lonicera japonica	20	Yes	FAC	Sapling/shrub: Woody plants less than 3 in. DBH
3	_			and greater then 3.28 ft (1m) tall.
4	_			Herb: All herbaceous (non-woody) plants, regardless
5	_			of size, and woody plants less than 3.28 ft tall.
6	_			Woody Vines: All woody vines greater than 3.28 ft in
7				height.
	25	= Total Cover		
	12.5	= 50% <b>5</b>	= 20%	Hydrophytic Vegetation Present? Yes ☐ No☑
Remarks: (Include photo numbers here or on a separat	e sheet.)			•
SOIL				
JOIL				
Profile Description: (Describe to the depth needed to d	ocument the	indicator or co	nfirm the al	bsence of indicators.)
	Redox Feature			,
· · · · · · · · · · · · · · · · · · ·				
	0/ T	$vno^1$ $loc^2$	Toyti	uro Pomarks
(inches) Color (moist) % Color (moist)	<u>%</u> T	ype <sup>1</sup> Loc <sup>2</sup>	Text	
0-6 10YR 2/2 100		<u> </u>	silt lo	pam
0-6 10YR 2/2 100 6-10 10YR 3/3 100	% T	·	silt lo	pam
0-6 10YR 2/2 100		<u> </u>	silt lo	pam
0-6 10YR 2/2 100 6-10 10YR 3/3 100		<u> </u>	silt lo	pam
0-6 10YR 2/2 100 6-10 10YR 3/3 100		<u> </u>	silt lo	pam
0-6 10YR 2/2 100 6-10 10YR 3/3 100		<u> </u>	silt lo	crushed fill and rocky material - no redox
0-6 10YR 2/2 100 6-10 10YR 3/3 100	- <del> </del>		silt lo	crushed fill and rocky material - no redox
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2	- <del> </del>		silt lo	crushed fill and rocky material - no redox
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2   Type: C=Concentration, D=Depletion, RM=Reduced Mathematics   Hydric Soil Indicators:	atrix, CS=Cover	red or Coated S	silt lo	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2   Type: C=Concentration, D=Depletion, RM=Reduced Mathydric Soil Indicators:  Histosol (A1)	atrix, CS=Cover		silt lo	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)
0-6	atrix, CS=Cover	red or Coated S	silt lo	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
0-6	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surface	red or Coated S	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Muck Peat or Peat (S3) (LRR K, L, R)
0-6 10 YR 2/2 100 6-10 10 YR 3/3 100 10-16 10 YR 4/3 80 10 YR 2/2	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfacoamy Mucky N	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox   2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2     Type: C=Concentration, D=Depletion, RM=Reduced Mathematical Mathematical Indicators:	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfac pamy Mucky N pamy Gleyed N	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2)	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2   1Type: C=Concentration, D=Depletion, RM=Reduced Market Soil Indicators:  ☐ Histosol (A1) ☐ P ☐ Histic Epipedon (A2) ☐ Black Histic (A3) ☐ T ☐ Hydron Sulfide (A4) ☐ Lagranget Capture (A5) ☐ Depleted Below Dark Surface (A11) ☐ D	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfac oamy Mucky N oamy Gleyed N epleted Matrix	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3)	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2    Type: C=Concentration, D=Depletion, RM=Reduced Mathematical Mathematical Indicators:	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfac oamy Mucky N oamy Gleyed N epleted Matrix edox Dark Surf	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6)	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2     Type: C=Concentration, D=Depletion, RM=Reduced Mathematical Ma	atrix, CS=Cover olyvalue Below MLRA 149B) hin Dark Surfaco oamy Mucky Nooamy Gleyed N epleted Matrix edox Dark Surfeeleted Dark S	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2     Type: C=Concentration, D=Depletion, RM=Reduced Mathematical Ma	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfac oamy Mucky N oamy Gleyed N epleted Matrix edox Dark Surf	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
0-6	atrix, CS=Cover olyvalue Below MLRA 149B) hin Dark Surfaco oamy Mucky Nooamy Gleyed N epleted Matrix edox Dark Surfeeleted Dark S	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
0-6	atrix, CS=Cover olyvalue Below MLRA 149B) hin Dark Surfaco oamy Mucky Nooamy Gleyed N epleted Matrix edox Dark Surfeeleted Dark S	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
0-6	atrix, CS=Cover olyvalue Below MLRA 149B) hin Dark Surfaco oamy Mucky Nooamy Gleyed N epleted Matrix edox Dark Surfeeleted Dark S	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7)	silt lo silt lo silt lo and Grains.	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)
0-6	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfaco oamy Mucky Nooamy Gleyed N epleted Matrix edox Dark Surf epleted Dark S edox Depressi	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, WILRA 149B R K, L)	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2   Type: C=Concentration, D=Depletion, RM=Reduced Mathematical Mathematical Indicators:  Histosol (A1) P Histic Epipedon (A2) T Histic Epipedon (A2) Black Histic (A3) T Lagrange Mathematical Indicators Indica	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfaco oamy Mucky Nooamy Gleyed N epleted Matrix edox Dark Surf epleted Dark S edox Depressi	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, WILRA 149B R K, L)	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
0-6 10YR 2/2 100 6-10 10YR 3/3 100 10-16 10YR 4/3 80 10YR 2/2  1Type: C=Concentration, D=Depletion, RM=Reduced Mathematical Mathe	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfaco oamy Mucky Nooamy Gleyed N epleted Matrix edox Dark Surf epleted Dark S edox Depressi	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, WILRA 149B R K, L)	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  or problematic.
0-6	atrix, CS=Cover olyvalue Belov MLRA 149B) hin Dark Surfaco oamy Mucky Nooamy Gleyed N epleted Matrix edox Dark Surf epleted Dark S edox Depressi	red or Coated S v Surface (S8) (I ce (S9) (LRR R, I dineral (F1) (LRI Matrix (F2) x (F3) face (F6) Surface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, WILRA 149B R K, L)	crushed fill and rocky material - no redox  2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils³:  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
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Project/Site: Dzus wetlands		City/Co	ounty: Suffolk	County		Sampling Date: 3/12/18
Applicant/Owner: DEC					State: NY	Sampling Point: DP-7
Investigator(s): TMK			Section, T	Township, Ra	ange: West Islip	
Landform (hillslope, terrace, etc.):	hillslope			Local Relie	ef (concave, convex, nor	ne): convex
Slope %: 5% Latitude:	40° 42' 11" N		Longitude:	<b>–</b> 73° 18' 01'	" W	Datum: NAD83
Subregion (LRR or MLRA)	Soil Map Unit Name:	RhB	-			lassification:
Are climatic/hydrologic conditions o	_	s time of ye	ar? Ye	s☑ No 🗆		
Are Vegetation □, Soil □, or hydr		-			rcumstances" present?	•
Are Vegetation □, Soil □, or hydr					ain any answers in rem	
					•	
SUMMARY OF FINDINGS - At	tach site map shoir	ng samplir	ng point lo	cations, t	ransects, importan	t features, etc.
Hydrophytic Vegetation Present?	Yes ☑ No□		Is the San	npled Area	within a Wetland? Y	'es □ No ☑
Hydric Soil Present?	Yes ☐ No ✓					
Wetland Hydrology Present?	Yes □ No ☑		If yes, opt	tional Wetla	and Site ID:	
Remarks: (Explain alternative proced	dures here or in a separa	ate report.)				
upland slope along WUS1 upslope o	of Wetland F					
::::::::::::::::::::::::::::::::::::::						
HYDROLOGY Wetland Hydrology Indicators:					Secondar	- 1-di-atom (minimum of 2)
Wetland Hydrology Indicators: Primary Indicators (minimum of one	e is required: check all th	rat anply)				ry Indicators (minimum of 2) face Soil Cracks (B6)
Surface Water (A1)			ed Leaves (B9	A.		inage Patterns (B10)
High Water Table (A2)	_	Aquatic Faur	-	,	_	ss Trim Lines (B16)
Saturation (A3)		Marl Deposit	its (B15)		Dry-	-Season Water Table (C2)
Water Marks (B1)	<del>-</del>		ulfide Odor (C	-	ш.	yfish Burrows (C8)
☐ Sediment Deposits (B2) ☐ Drift Deposits (B3)			izospheres on Reduced Iron	_	· ·	uration Visible on Aerial (C9) nted or Stressed Plants (D1)
Algal Mat or Crust (B4)			Reduced Iron Reduction in			omorphic Position (D2)
Iron Deposits (B5)	_	Thin Muck S		Tines -		llow Aquitard (D3)
Inundation Visible on Aerial Im	nagery (B7)		ain in Remarks	s)		rotopographic Relief (D4)
☐ Sparsely Vegetated Concave Su	urface (B8)				FAC	-Neutral Test (D5)
Field Observations:	- It limphos	_				
Surface Water Present? Yes  Water Table Present? Yes	No Depth (inches)		<del></del>			
Water Table Present? Yes ☐ Saturation Present? Yes ☐	No Depth (inches) No Depth (inches)		<del></del>	Wetlan	d Hydrology Present?	Yes No
(includes capillary fringe)						
Describe Recorded Data (stream gua	age, monitoring well, ae	rial photos,	previous insp	ections), if a	available:	
De-mentos						
Remarks: No primary hydrology indicators obs	cerved					
No pilinary rryarology malocitics						
VEGETATION - Use Scientific	Names of Plants					
VEGETATION - Use scientific		Absolute	Dominant	Indicator	Dominance Test works	ah aatı
Tree Stratum (Plot size: 30 ft		% Cover	Species?		Number of Dominant S	
1	-' <u> </u>				That Are OBL, FACW, o	•
2						
3					Total Number of Domi	
4					Species Across All Strat	ta: <u>2</u> (B)
6					Percent of Dominant S	necies
7	<del></del>				That Are OBL, FACW, o	•
			Total cover			
/Dlat size	<u> </u>	=	50%	= 20%		
· · ·	e: <u>10 ft</u> )				Prevalence Index work	
1 4				ŗ	Total % Cover of:	Multiply by:
12					ORI species	v 1
1 2 3					OBL species FACW species	x 1
2					· · —	
3					FACW species FAC species FACU species	x 2 x 3 x 4
3 4					FACW species FAC species FACU species UPL Species	x 2 x 3 x 4 x 5
3 4 5			Total Cover		FACW species FAC species FACU species	x 2 x 3 x 4 x 5 (A) (B)



Vegetation (continued)				Sampling Point: DP-7
	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 10 ft )	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1	_	<u> </u>		☐ Dominance test is >50%
2 Phragmites australis	80	yes	FACW	☐ Prevalence Index is ≤3.01
3				☐ Morphological Adaptations1 (Provide Supporting
4		<u></u> .		data in Remarks or on a separate sheet)
5				☐ Problematic Hydrophytic Vegetation1 (Explain)
6				Indicators of hydric soil and wetland hydrology must
7				be present, unless distrubed or problematic.
8	-			1
		= Total Cover		
	40 =	= 50% 16	= 20%	Definitions of Vegetation Strata:
Woody-vine Stratum (Plot size: 10ft )				Tree: Woody plants 3 in. (7.6cm) or more in diameter
1		••••		at breast height (DBH), regardless of height.
2 Lonicera japonica	15	Yes	FAC	Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater then 3.28 ft (1m) tall.
5			-	Herb: All herbaceous (non-woody) plants, regardless
[ <del></del>				of size, and woody plants less than 3.28 ft tall.
6				Woody Vines: All woody vines greater than 3.28 ft in
<i>'</i>		= Total Cover		height.
		= 10tal Cover = 50% <b>3</b>	= 20%	Hydrophytic Vegetation Present? Yes No No
	7.5	= 50%		Hydrophytic Vegetation Present? Yes ☑ No☐
Demander / Include whate numbers here or on a congret	hoot \			<u>J</u>
Remarks: (Include photo numbers here or on a separat	:e sneet.)			
SOIL				
SOIL				
Profile Description: (Describe to the depth needed to d	document the ir	ndicator or con	firm the al	bsence of indicators.)
1	Redox Features			· · · · · · · · · · · · · · · · · · ·
(inches) Color (moist) % Color (moist)		vpe <sup>1</sup> Loc <sup>2</sup>	Text	cure Remarks
0-2 10YR 2/1 100	<del></del>		silt lo	
4-10 10YR 3/3 100			silt lo	
10-16 10YR 4/3 100			silt lo	
<del>                                     </del>				
<del></del>				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Ma	atrix, CS=Covere	ed or Coated Sa	nd Grains	Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	,			Indicators for Problematic Hydric Soils <sup>3</sup> :
·	olyvalue Below	Surface (S8) (L	RR R.	2 cm Muck (A10) (LRR K, L, MLRA 149B)
	MLRA 149B)	Julius (52, 1	,	Coast Prarie Redox (A16) (LRR K, L, R)
	Thin Dark Surface	-^ (SO) (I PR R I	41 DA 149R	
6 (6.1 (4.4)	oamy Mucky Mi			D. J. C. (C.) (LDD (C.)
	oamy Gleyed M		K, Lj	Delimetre Delevi Sunface (CO) (LDD K L)
	Depleted Matrix	• •		This Dark Confess (CO) (LDD K 1)
	Redox Dark Surfa			
Court March Material (CA)	Depleted Dark Su	. ,		
	Redox Depressio			TARREST CARREST (TYG) (BALBA 445, 445, 4400)
Sandy Gleyed Matrix (S4)	edox Depressio	)		D. d.D
Stripped Matrix (S6)				Man Challes Bank Conform (TE42)
<del>-</del>			· · · · · · · · · · · · · · · · · · ·	Other (Explain in Remarks)
<sup>3</sup> Indicators of hydrophtic vegetation and wetland hydro	ology must be p	resent, unless o	listurbea d	or problematic.
Restrictive Layer (if observed):				
Type:				Hydric Soil Present? Yes ☐ No ☐
11				
Depth (inches):				



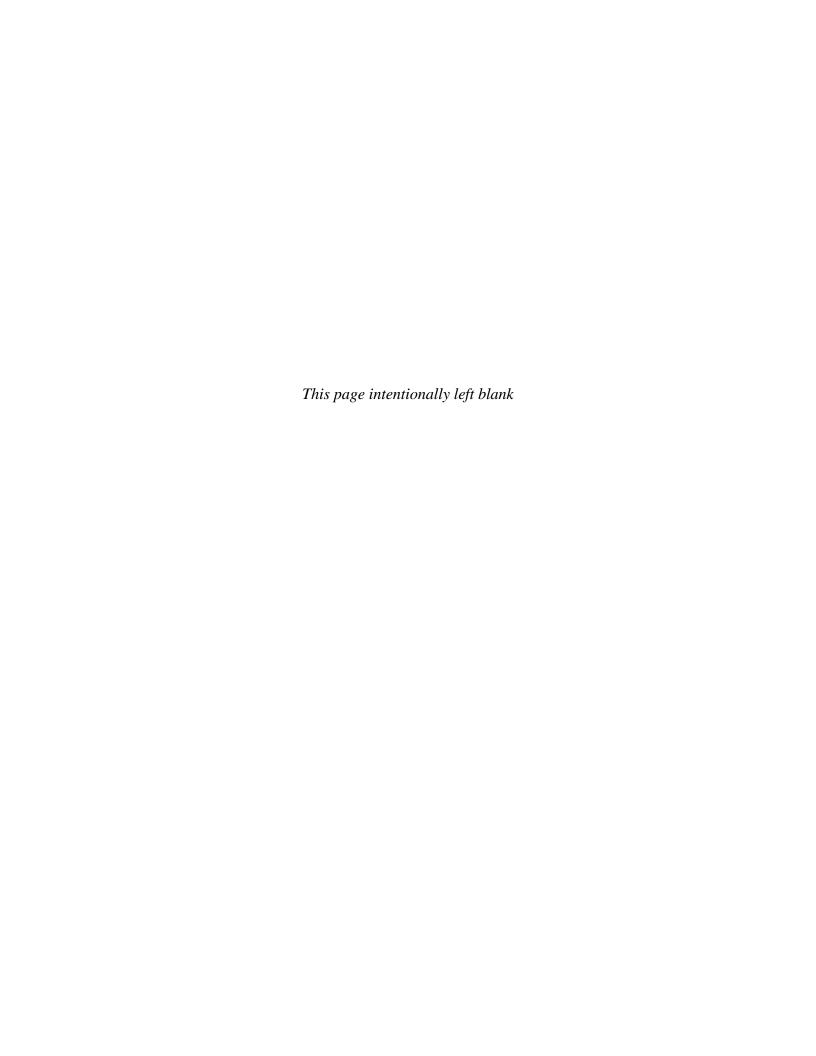
Project/Site: Dzus wetlands	City/County: Suffo	olk County	Sampling Date: 3/12/18
Applicant/Owner: DEC			State: NY Sampling Point: DP-8
Investigator(s): TMK	Section	, Township, R	Range: West Islip
Landform (hillslope, terrace, etc.): hillslope		Local Relie	ef (concave, convex, none): convex
Slope %: <5% Latitude: 40° 42' 11" N	Longitud	e: 73° 18' 01'	· ———
Subregion (LRR or MLRA) Soil Map Unit Nam			NWI Classification:
Are climatic/hydrologic conditions on the site typical for		Yes 🗸 No 🗆	
Are Vegetation □, Soil □, or hydrology □ significantl	•		rcumstances" present? Yes
			•
Are Vegetation ☐, Soil ☐ , or hydrology ☐ naturally p	roblematic? (ii	neeaea, expi	lain any answers in remarks.)
SUMMARY OF FINDINGS - Attach site map sh	oing sampling point	ocations, t	ransects, important features, etc.
Hydrophytic Vegetation Present? Yes ☐ No ☑	Is the S	ampled Area	within a Wetland? Yes ☐ No ☑
Hydric Soil Present? Yes ☐ No ☑			
Wetland Hydrology Present? Yes □ No ☑	If yes, o	optional Wetla	and Site ID:
Remarks: (Explain alternative procedures here or in a sep	·	- P	
Themands (Explain diternative process as 1.5.5.5 2.2	Jarate reports,		
located between Wetland C and residential yard			
HYDROLOGY			
Wetland Hydrology Indicators:			Secondary Indicators (minimum of 2)
Primary Indicators (minimum of one is required; check a	···		Surface Soil Cracks (B6)
☐ Surface Water (A1)		39)	☐ Drainage Patterns (B10)
High Water Table (A2)	= : : : : : : : : : : : : : : : : : : :		Moss Trim Lines (B16)
Saturation (A3)			Dry-Season Water Table (C2)
Water Marks (B1)			Crayfish Burrows (C8)
Sediment Deposits (B2)		_	
Drift Deposits (B3)			Stunted or Stressed Plants (D1)  (C6) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Recent Iron Reduction i	n Tillea Solis (	
☐ Iron Deposits (B5) ☐ Inundation Visible on Aerial Imagery (B7) ☐	Thin Muck Surface (C7) Other (Explain in Rema	-l-a\	☐ Shallow Aquitard (D3) ☐ Microtopographic Relief (D4)
	Other (Explain in Rema	íKS)	Microtopographic Relief (D4)
☐ Sparsely Vegetated Concave Surface (B8)		1	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes No Depth (incl			
Surface Water Present? Yes No Depth (incl Water Table Present? Yes No Depth (incl			
Saturation Present? Yes No Depth (incl		Wetlan	nd Hydrology Present? Yes 🖂 No 🗔
(includes capillary fringe)			
Describe Recorded Data (stream guage, monitoring well,	aerial photos, previous in	spections), if	available:
Remarks: No hydrology indicators observed			
No hydrology indicators observed			
VEGETATION - Use Scientific Names of Plants			
	Absolute Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ft )	% Cover Species?	Status	Number of Dominant Species  That Are OBL FACW or FAC:  (A)
1 Acer rubrum	5 Yes Yes	FAC FACU	That Are OBL, FACW, or FAC: 4 (A)
2 Carya ovata 3 Nyssa sylvatica	5 Yes 10 Yes	FACU FAC	Total Number of Dominant
4	10 169	- FAC	Species Across All Strata: 9 (B)
5			species Across Air strata.
6			Percent of Dominant Species
7			That Are OBL, FACW, or FAC: 44.4 (A/B)
	20 = Total cove	er	<del></del>
	10 = 50%	4 = 20%	
Sapling/Shrub Stratum (Plot size: 10 ft )			Prevalence Index worksheet:
1	<del></del>		Total % Cover of: Multiply by:
2 Rosa multiflora	10 Yes	FACU	OBL species x 1
			FACW species x 2
3 Clethra alnifolia	5 Yes	FACW	+ ·
3 Clethra alnifolia 4 Acer rubrum	5 Yes 5 Yes	FACW	FAC species x 3
3 Clethra alnifolia 4 Acer rubrum 5			FAC species x 3 FACU species x 4
3 Clethra alnifolia 4 Acer rubrum			FAC species         x 3           FACU species         x 4           UPL Species         x 5
3 Clethra alnifolia 4 Acer rubrum 5		FAC	FAC species x 3 FACU species x 4



Vegetation (continued)				Sampling Point: DP-8
	Absolute	Dominant	Indicator	Hydrophytic Vegetation Indicators:
Herb Stratum (Plot size: 10 ft )	% Cover	Species?	Status	Rapid Test for Hydrophytic Vegetation
1 Festuca spp.	20	Yes	UPL	☐ Dominance test is >50%
2 Trifolium repense	10	Yes	FACU	Prevalence Index is ≤3.01
3 Trifolium pratense	10	Yes	FACU	☐ Morphological Adaptations1 (Provide Supporting
4				data in Remarks or on a separate sheet)
5				Problematic Hydrophytic Vegetation1 (Explain)
6				1Indicators of hydric soil and wetland hydrology must
7	_			be present, unless distrubed or problematic.
8				oc present, amess area and a present a series
<del></del>	40	= Total Cover		
		= 50% 8	= 20%	Definitions of Vegetation Strata:
Woody-vine Stratum (Plot size: 10ft )			Tree: Woody plants 3 in. (7.6cm) or more in diameter	
1				at breast height (DBH), regardless of height.
12				Sapling/shrub: Woody plants less than 3 in. DBH
3				and greater then 3.28 ft (1m) tall.
\[ \frac{3}{4} \]				Herb: All herbaceous (non-woody) plants, regardless
5				of size, and woody plants less than 3.28 ft tall.
6				
0				Woody Vines: All woody vines greater than 3.28 ft in
l'	<del></del> .	T-tal Cavor		height.
		= Total Cover	200/	U de chesta Vanatation Duranta Van - Na-
		= 50%	= 20%	Hydrophytic Vegetation Present? Yes ☐ No ☐
Remarks: (Include photo numbers here or on a separa	ate sheet.)			
SOIL				
Describe to the depth pended to		disaster or con	firm the al	of indicatous \
Profile Description: (Describe to the depth needed to			firm the au	osence of indicators.)
Depth Matrix	Redox Features	5		
		1 . 2		
(inches) Color (moist) % Color (moist	t) <u>%</u> Ty	/pe <sup>1</sup> Loc <sup>2</sup>	Textu	ure Remarks
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100		/pe <sup>1</sup> Loc <sup>2</sup>	Textu	
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100			-	pam
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100			silt lo	oam oam
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100			silt lo	oam oam
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100			silt lo	oam oam
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100			silt lo	oam oam
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100		  	silt lo	pam pam pam
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100            14-18         10YR 4/2         100		  	silt lo	2 Location: PL=Pore Lining, M=Matrix.
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100            14-18         10YR 4/2         100     *Type: C=Concentration, D=Depletion, RM=Reduced Name and Concentration in the properties of the properties o		ed or Coated Sa	silt lo	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators:  Histosol (A1)	Vatrix, CS=Covere	ed or Coated Sa	silt lo	2 cm Muck (A10) (LRR K, L, MLRA 149B)
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100            14-18         10YR 4/2         100     **Type: C=Concentration, D=Depletion, RM=Reduced Medicators:    Histosol (A1)	Vatrix, CS=Covere	ed or Coated Sa	silt lo silt lo silt lo and Grains.	2 com Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)
(inches)	Vatrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac	ed or Coated Sa	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky (Pat) (PPAt (S3) (LRR K, L, R)
(inches)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M	ed or Coated Sar Surface (S8) (L	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100            14-18         10YR 4/2         100     **Type: C=Concentration, D=Depletion, RM=Reduced N  **Hydric Soil Indicators:    Histosol (A1)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M	ed or Coated Sar Surface (S8) (LRR R, National (F1) (LRR Matrix (F2)	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)
(inches)         Color (moist)         %         Color (moist)           0-3         10YR 3/2         100            3-14         10YR 4/3         100            14-18         10YR 4/2         100     **Type: C=Concentration, D=Depletion, RM=Reduced Medical Social Indicators:    Histosol (A1)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix	ed or Coated Sar Surface (S8) (LRR R, National (F1) (LRF Matrix (F2)	silt lo silt lo silt lo and Grains. RR R,	2Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)
Color (moist)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac	ed or Coated Sar Surface (S8) (Lare (S9) (Lare R, National (F1) (Lare (F3) ace (F6)	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
Color (moist)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Si	ed or Coated Sar Surface (S8) (LRR R, N lineral (F1) (LRR Matrix (F2) (F3) ace (F6) urface (F7)	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
Color (moist)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac	ed or Coated Sar Surface (S8) (LRR R, N lineral (F1) (LRR Matrix (F2) (F3) ace (F6) urface (F7)	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)
Color (moist)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Si	ed or Coated Sar Surface (S8) (LRR R, N lineral (F1) (LRR Matrix (F2) (F3) ace (F6) urface (F7)	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)
Color (moist)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Si	ed or Coated Sar Surface (S8) (LRR R, N lineral (F1) (LRR Matrix (F2) (F3) ace (F6) urface (F7)	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Si	ed or Coated Sar Surface (S8) (LRR R, N lineral (F1) (LRR Matrix (F2) (F3) ace (F6) urface (F7)	silt lo silt lo silt lo and Grains. RR R,	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  1Type: C=Concentration, D=Depletion, RM=Reduced Medicators:  Histosol (A1)	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  1Type: C=Concentration, D=Depletion, RM=Reduced Medical Research of the color	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	Dam    2
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)   Histic Epipedon (A2)   Hydron Sulfide (A4)   Stratified Layers (A5)   Depleted Below Dark Surface (A11)   Thick Dark Surface (A12)   Sandy Mucky Mineral (S1)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyde  Restrictive Layer (if observed): Type:	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  1Type: C=Concentration, D=Depletion, RM=Reduced Medical Research of the color	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)   Histic Epipedon (A2)   Hydron Sulfide (A4)   Stratified Layers (A5)   Depleted Below Dark Surface (A11)   Thick Dark Surface (A12)   Sandy Mucky Mineral (S1)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyde  Restrictive Layer (if observed): Type:	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	Dam    2
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)   Histic Epipedon (A2)   Hydron Sulfide (A4)   Stratified Layers (A5)   Depleted Below Dark Surface (A11)   Thick Dark Surface (A12)   Sandy Mucky Mineral (S1)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyde  Restrictive Layer (if observed): Type:	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)   Histic Epipedon (A2)   Hydron Sulfide (A4)   Stratified Layers (A5)   Depleted Below Dark Surface (A11)   Thick Dark Surface (A12)   Sandy Mucky Mineral (S1)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyde  Restrictive Layer (if observed): Type:	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)   Histic Epipedon (A2)   Hydron Sulfide (A4)   Stratified Layers (A5)   Depleted Below Dark Surface (A11)   Thick Dark Surface (A12)   Sandy Mucky Mineral (S1)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyde  Restrictive Layer (if observed): Type:	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (Activa (F2) (F3) (Activa (F2) (F6) (F6) (Lare (F7) (F8))	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)   Histic Epipedon (A2)   Hydron Sulfide (A4)   Stratified Layers (A5)   Depleted Below Dark Surface (A11)   Thick Dark Surface (A12)   Sandy Mucky Mineral (S1)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyde  Restrictive Layer (if observed): Type:	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (ace (F6) urface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)   Histic Epipedon (A2)   Hydron Sulfide (A4)   Stratified Layers (A5)   Depleted Below Dark Surface (A11)   Thick Dark Surface (A12)   Sandy Mucky Mineral (S1)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyde  Restrictive Layer (if observed): Type:	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (ace (F6) urface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	Dam    2
(inches) Color (moist) % Color (moist)  0-3 10YR 3/2 100  3-14 10YR 4/3 100  14-18 10YR 4/2 100  Type: C=Concentration, D=Depletion, RM=Reduced Medicators: Histosol (A1)   Histic Epipedon (A2)   Hydron Sulfide (A4)   Stratified Layers (A5)   Depleted Below Dark Surface (A11)   Thick Dark Surface (A12)   Sandy Mucky Mineral (S1)   Sandy Gleyed Matrix (S4)   Sandy Redox (S5)   Stripped Matrix (S6)   Dark Surface (S7) (LRR R, MLRA 149B)  Indicators of hydrophtic vegetation and wetland hyde  Restrictive Layer (if observed): Type:	Matrix, CS=Covered Polyvalue Below MLRA 149B) Thin Dark Surfac Loamy Mucky M Loamy Gleyed M Depleted Matrix Redox Dark Surfac Depleted Dark Surfac	ed or Coated Say Surface (S8) (Lare (S9) (Lare R, Milineral (F1) (Lare (F3) (ace (F6) urface (F7) ons (F8)	silt lo silt lo silt lo and Grains. RR R, VILRA 149B	2 Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :  2 cm Muck (A10) (LRR K, L, MLRA 149B)  Coast Prarie Redox (A16) (LRR K, L, R)  5 cm Mucky Peat or Peat (S3) (LRR K, L, R)  Dark Surface (S7) (LRR K, L)  Polyvalue Below Surface (S8) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)  Iron-Manganese Masses (F12) (LRR K, L, R)  Piedmont Floodplain Soils (F19) (MLRA 149B)  Mesic Spodic (TX6) (MLRA 144A, 145, 149B)  Red Parent Material (TF2)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)



# Appendix B PHOTO LOG





**Photograph 1:** Overview of Waters of the U.S. 1



**Photograph 3:** Overview of Wetland B.



**Photograph 2:** View of Wetland A from the right bank of Waters of the U.S. 1



**Photograph 4:** Overview of Wetland D along Waters of the U.S. 1.



**Photograph 5:** Overview of Wetland F along Waters of the U.S. 1.



**Photograph 7:** Pedestrian bridge crossing over Waters of the U.S. 1.



**Photograph 6:** Connection of Wetland C to Waters of the U.S. 1.



**Photograph 8:** Overview of Lake Capri.

On-site Photographs Dzus Wetland Delineation Report Photos Taken March 11-12 and September 4, 2018



**Photograph 9:** Mowed and maintained lawn typically observed along the banks of Lake Capri.



**Photograph 11:** Overview of Wetland G.



**Photograph 10:** Overview of Waters of the U.S. 2.

