



**Lockport-Batavia Line #112  
Rebuild Project**

**EM&CP Update**

**Replacement Appendix G  
(SWPPP)**

*(Revised January 2026; Replaces Version Filed June 2025)*

*Part 3 of 5*

# Culvert Analysis Report

## Culvert 30

Analysis Component			
Storm Event	Design	Discharge	72.60 cfs
Peak Discharge Method: User-Specified			
Design Discharge	72.60 cfs	Check Discharge	87.20 cfs
Tailwater Conditions: Constant Tailwater			
Tailwater Elevation	N/A ft		

Name	Description	Discharge	HW Elev.	Velocity
Culvert-1	1-8 x 4 ft Box	72.60 cfs	607.67 ft	6.63 ft/s
Weir	Roadway (Constant Elevation)	0.00 cfs	607.67 ft	N/A
Total	-----	72.60 cfs	607.67 ft	N/A

# Culvert Analysis Report

## Culvert 30

Component: Culvert-1

Culvert Summary			
Computed Headwater Elevation	607.67 ft	Discharge	72.60 cfs
Inlet Control HW Elev.	607.54 ft	Tailwater Elevation	N/A ft
Outlet Control HW Elev.	607.67 ft	Control Type	Outlet Control
Headwater Depth/Height	0.61		

Grades			
Upstream Invert	605.22 ft	Downstream Invert	605.21 ft
Length	50.00 ft	Constructed Slope	0.000200 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	1.37 ft
Slope Type	Mild	Normal Depth	N/A ft
Flow Regime	Subcritical	Critical Depth	1.37 ft
Velocity Downstream	6.63 ft/s	Critical Slope	0.003284 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	8.00 ft
Section Size	8 x 4 ft	Rise	4.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	607.67 ft	Upstream Velocity Head	0.44 ft
Ke	0.70	Entrance Loss	0.30 ft

Inlet Control Properties			
Inlet Control HW Elev.	607.54 ft	Flow Control	N/A
Inlet Type	0° wingwall flares	Area Full	32.0 ft²
K	0.06100	HDS 5 Chart	8
M	0.75000	HDS 5 Scale	3
C	0.04230	Equation Form	1
Y	0.82000		

# Culvert Analysis Report

## Culvert 30

Component: Weir

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Hydraulic Component(s): Roadway (Constant Elevation)			
Discharge	0.00 cfs	Allowable HW Elevation	607.67 ft
Roadway Width	20.00 ft	Overtopping Coefficient	2.50 US
Length	200.00 ft	Crest Elevation	610.22 ft
Headwater Elevation	N/A ft	Discharge Coefficient (Cr)	2.50
Submergence Factor (Kt)	1.00		

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Sta (ft)	Elev. (ft)
0.00	610.22
200.00	610.22

# Culvert Analysis Report

## Culvert 35

Analysis Component			
Storm Event	Design	Discharge	15.44 cfs
Peak Discharge Method: User-Specified			
Design Discharge	15.44 cfs	Check Discharge	25.35 cfs
Tailwater Conditions: Constant Tailwater			
Tailwater Elevation	N/A ft		

Name	Description	Discharge	HW Elev.	Velocity
Culvert-1	1-8 x 4 ft Box	15.43 cfs	634.15 ft	3.96 ft/s
Weir	Roadway (Constant Elevation)	0.00 cfs	634.15 ft	N/A
Total	-----	15.43 cfs	634.15 ft	N/A

# Culvert Analysis Report

## Culvert 35

Component: Culvert-1

Culvert Summary			
Computed Headwater Elevation	634.15 ft	Discharge	15.43 cfs
Inlet Control HW Elev.	634.08 ft	Tailwater Elevation	N/A ft
Outlet Control HW Elev.	634.15 ft	Control Type	Outlet Control
Headwater Depth/Height	0.22		

Grades			
Upstream Invert	633.27 ft	Downstream Invert	633.12 ft
Length	50.00 ft	Constructed Slope	0.003000 ft/ft

Hydraulic Profile			
Profile	M2	Depth, Downstream	0.49 ft
Slope Type	Mild	Normal Depth	0.52 ft
Flow Regime	Subcritical	Critical Depth	0.49 ft
Velocity Downstream	3.96 ft/s	Critical Slope	0.003648 ft/ft

Section			
Section Shape	Box	Mannings Coefficient	0.013
Section Material	Concrete	Span	8.00 ft
Section Size	8 x 4 ft	Rise	4.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	634.15 ft	Upstream Velocity Head	0.22 ft
Ke	0.70	Entrance Loss	0.15 ft

Inlet Control Properties			
Inlet Control HW Elev.	634.08 ft	Flow Control	N/A
Inlet Type	0° wingwall flares	Area Full	32.0 ft²
K	0.06100	HDS 5 Chart	8
M	0.75000	HDS 5 Scale	3
C	0.04230	Equation Form	1
Y	0.82000		

# Culvert Analysis Report

## Culvert 35

Component: Weir

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Hydraulic Component(s): Roadway (Constant Elevation)			
Discharge	0.00 cfs	Allowable HW Elevation	634.15 ft
Roadway Width	20.00 ft	Overtopping Coefficient	2.50 US
Length	200.00 ft	Crest Elevation	638.27 ft
Headwater Elevation	N/A ft	Discharge Coefficient (Cr)	2.50
Submergence Factor (Kt)	1.00		

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Sta (ft)	Elev. (ft)
0.00	638.27
200.00	638.27

# Culvert Designer/Analyzer Report

## Culvert-58

Analysis Component			
Storm Event	Check	Discharge	99.00 cfs

Peak Discharge Method: User-Specified			
Design Discharge	70.00 cfs	Check Discharge	99.00 cfs

Tailwater Conditions: Constant Tailwater	
Tailwater Elevation	N/A ft

Name	Description	Discharge	HW Elev.	Velocity
Culvert-1	1-60 inch Circular	98.99 cfs	611.22 ft	10.92 ft/s
Weir	Roadway	0.00 cfs	611.22 ft	N/A
Total	-----	98.99 cfs	611.22 ft	N/A

# Culvert Designer/Analyzer Report

## Culvert-58

Component: Culvert-1

Culvert Summary			
Computed Headwater Elev:	611.22 ft	Discharge	98.99 cfs
Inlet Control HW Elev.	611.04 ft	Tailwater Elevation	N/A ft
Outlet Control HW Elev.	611.22 ft	Control Type	Entrance Control
Headwater Depth/Height	0.84		

Grades			
Upstream Invert	607.00 ft	Downstream Invert	606.50 ft
Length	56.03 ft	Constructed Slope	0.008924 ft/ft

Hydraulic Profile			
Profile	S2	Depth, Downstream	2.35 ft
Slope Type	Steep	Normal Depth	2.11 ft
Flow Regime	Supercritical	Critical Depth	2.83 ft
Velocity Downstream	10.92 ft/s	Critical Slope	0.003266 ft/ft

Section			
Section Shape	Circular	Mannings Coefficient	0.012
Section Material	HDPE (Smooth Interior)	Span	5.00 ft
Section Size	60 inch	Rise	5.00 ft
Number Sections	1		

Outlet Control Properties			
Outlet Control HW Elev.	611.22 ft	Upstream Velocity Head	1.16 ft
Ke	0.20	Entrance Loss	0.23 ft

Inlet Control Properties			
Inlet Control HW Elev.	611.04 ft	Flow Control	Unsubmerged
Inlet Type	Beveled ring, 33.7° bevels	Area Full	19.6 ft²
K	0.00180	HDS 5 Chart	3
M	2.50000	HDS 5 Scale	B
C	0.02430	Equation Form	1
Y	0.83000		

# Culvert Designer/Analyzer Report

## Culvert-58

Component: Weir

Hydraulic Component(s): Roadway			
Discharge	0.00 cfs	Allowable HW Elevation	611.22 ft
Roadway Width	0.00 ft	Overtopping Coefficient	3.09 US
Low Point	611.20 ft	Headwater Elevation	N/A ft
Discharge Coefficient (Cr)	3.09	Submergence Factor (Kt)	1.00
Tailwater Elevation	-9,999.00 ft		

Sta (ft)	Elev. (ft)
0.00	611.20
10.00	611.30
20.00	611.52
30.00	612.00
40.00	612.53
50.00	613.06
60.00	613.59
70.00	613.99
80.00	614.22
90.00	614.28
100.00	614.17
110.00	613.89
120.00	613.44
130.00	612.83
140.00	612.17
150.00	611.58
160.00	611.43

**Appendix R**  
Wetland/Watercourse Delineation Report

*PREPARED FOR:*

**nationalgrid**

NIAGARA MOHAWK POWER CORPORATION  
(D/B/A NATIONAL GRID)  
300 ERIE BOULEVARD, WEST  
SYRACUSE, NY 13202

## **LOCKPORT-BATAVIA #112 REBUILD PROJECT**

TOWNS OF LOCKPORT AND ROYALTON, NIAGARA COUNTY, AND  
TOWN OF ALABAMA, GENESEE COUNTY,  
NEW YORK

### **WETLAND AND WATERCOURSE DELINEATION REPORT**

**JANUARY 2020  
UPDATED FEBRUARY 2021**



*PREPARED BY:*

**FISHER**   
ASSOCIATES

180 CHARLOTTE STREET  
ROCHESTER, NEW YORK 14607  
FISHER ASSOCIATES PROJECT No. 190176.00

## EXECUTIVE SUMMARY

On behalf of Niagara Mohawk Power Corporation (d/b/a National Grid), Fisher Associates' Environmental Scientists conducted field delineations between August 6 and October 2, 2019, June 16, 2020, and November 12 and 13, 2020 to identify potential jurisdictional federal Waters of the U.S. (WOTUS) and potential jurisdictional state waters, including wetlands and watercourses within the Project Study Limits defined to support the Lockport-Batavia #112 Rebuild Project (Project). The original Project Study Limits consisted of a 445.14-acre area. An additional field delineation was performed on June 16, 2020 to look at an additional section of the Lockport-Batavia #112 line between Structure 211 and Structure 213. A second additional field delineation was performed on November 12 and November 13, 2020 to look at additional areas within the proposed reroute location along Lewiston Road, an area between Structure 168 and Structure 169, and an extension of the Project Study Limits at Structure 213. The overall Project Study Limits consist of a 468.42-acre area, which encompasses potential construction and limits of disturbance required for the Project. The Project Study Limits are depicted on the attached Wetland and Watercourse Delineation mapping.

The Project Study Limits are located within an existing right-of-way (ROW) for multiple overhead electrical transmission lines and the area includes commercial, residential, agricultural, and rural residential areas. The Project Study Limits are generally confined to the existing maintained ROW for the Lockport-Batavia #112 overhead transmission line, between Structure 1.3 to Structure 213. In the eastern portion of the Project, the Project Study Limits cross the Tonawanda Wildlife Management Area (WMA) and John White WMA. The Project Study Limits are generally bounded by NYS Route 77 to the north; the Erie Canal to the west; NYS Route 98 to the east; and NYS Route 93 to the south. They are located within the Niagara (HUC 04120104) and Oak Orchard-Twelvemile (HUC 04130001) watersheds. The western and central portion of the Project is drained by multiple unnamed tributaries of Mud Creek which flow south into Mud Creek and eventually into Tonawanda Creek. The Tonawanda WMA is comprised of a series of ditches and streams which flow into impounded wetlands/ waterbodies where water levels are manually facilitated. There are three (3) New York State Department of Environmental Conservation (NYSDEC) mapped streams within Tonawanda WMA that flow into Oak Orchard Creek to the north beyond the Project Study Limits. The outflow from the Tonawanda WMA drains into Tonawanda Creek to the south beyond the Project Study Limits.

The Project Study Limits were delineated based upon the methodology outlined in the *1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)* (Regional Supplement 2012), and the *1995 New York State Freshwater Wetlands Delineation Manual*. Using these methodologies, preliminary delineation mapping was produced and is included along with the attached investigation description and discussion. Twenty-eight (28) wetlands, totaling 153.59-acres, were delineated within the Project Study Limits. There were twenty-seven (27) PEM wetland components totaling 145.75-acres, four (4) PSS wetland components totaling 4.63-acres, three (3) PFO wetland components totaling 2.65-acres, and one (1) open-water (PUB) system totaling 0.56-acres were delineated within the Project Study Limits. Ten (10) stream reaches, totaling 3,575-linear feet, were delineated within the Project Study Limits. This included the New York State (NYS) Barge Canal (Class C), one (1) unnamed tributary to Tonawanda Creek (Class B), three (3) unnamed tributaries to Mud Creek (Class C), Mud Creek (Class C), and four (4) unmapped tributaries to Mud Creek (Class D) were delineated within the Project Study Limits. Twenty-five (25) ditches, totaling 4,643-linear feet, were delineated within the Project Study Limits.

Based on conditions observed, the USACE will likely invoke jurisdiction over the ten (10) delineated streams due to their perennial and intermittent flow regime, as well as their connection to a US Traditional

Navigable Water. Additionally, delineated Stream 001 is a section of the NYS Barge Canal (Erie Canal) system and is listed as a navigable waterway under Section 10 of the Rivers and Harbors Act of 1899. The USACE will also likely take jurisdiction over eighteen (18) of the twenty-eight (28) delineated wetlands because they are adjacent wetlands to other WOTUS. The USACE is anticipated to take jurisdiction over Ditch 010 because it flows through a jurisdictional adjacent wetland.

It is anticipated that the New York State Department of Environmental Conservation (NYSDEC) will invoke jurisdiction over Wetland 005 (PEM) (associated with NYSDEC Wetland LP-23), Wetland 016 (PEM & PSS) (associated with NYSDEC Wetland GA-22), Wetlands 017 (PEM & PFO) and 018 (PEM) (associated with NYSDEC Wetland GA-21), Wetland 020 (PEM) (associated with NYSDEC Wetland GA-6), Wetland 023 (PEM & PSS) (associated with NYSDEC Wetland AK-2, AK-3, and AK-4), and Wetland 027 (PEM & PFO) (associated with NYSDEC Wetland MD-1) under Article 24: Freshwater wetlands of the Environmental Conservation Law (ECL). Also, the NYSDEC may invoke jurisdiction over delineated Wetland 022 (PEM) because it is located within the John White WMA which has been owned and managed by the NYSDEC since 1945. It is expected that the NYSDEC will not invoke jurisdiction over the remaining delineated wetland systems throughout the Project Study Limits as they are not within close proximity (i.e., less than 50 meters) of mapped NYSDEC wetlands and their regulated 100-foot adjacent areas.

Additionally, it is anticipated that the NYSDEC will invoke jurisdiction over delineated Stream 002, an Unnamed Tributary to Tonawanda Creek, under Article 15: Protected Waters Program of the ECL, as it is a mapped NYSDEC Class B stream. It is also possible that the NYSDEC will invoke jurisdictional over delineated Stream 009 due to its location within the Tonawanda WMA which is managed by the NYSDEC as well as Stream 001, the Erie Canal, as it operated by the NYS Canal Corporation. It is expected that the NYSDEC will not invoke jurisdiction over the remaining seven (7) stream reaches identified within the Project Study Limits as they are recognized as either Class C or D stream reaches. It is expected that the NYSDEC will not invoke jurisdiction over the delineated ditches since NYSDEC typically does not regulate ditches.

**WETLAND AND WATERCOURSE DELINEATION REPORT  
LOCKPORT-BATAVIA #112 REBUILD PROJECT**

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## PROJECT INFORMATION SHEET

### General

Project Name: Lockport-Batavia #112 Rebuild Project  
State: New York  
County: Niagara and Genesee County  
Town: Towns of Lockport, Royalton, and Alabama

Latitude: 43.139915 North  
Longitude: -78.54395 West

Project Study Limit Size: 468.42-acres

HUC Code: 04120104 (Niagara Watershed) & 04130001 (Oak Orchard-Twelve Mile)

Waterbodies (TNW): NYS Barge Canal, unnamed tributaries to Tonawanda Creek, unnamed tributaries to Mud Creek; and associated palustrine emergent (PEM), palustrine scrub-shrub (PSS) and palustrine forested (PFO) wetlands

### Corresponding Information

USGS Quad Map: Akron, Gasport, Lockport, Medina, Oakfield

USDA Soils Map: Niagara and Genesee County

### Owner/Applicant

Name: Niagara Mohawk Power Corporation (d/b/a National Grid)  
Address: 300 Erie Boulevard, West  
Syracuse, NY 13202

Contact: Mary Bitka: (716) 831-7206

### Consultant

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## 1.0 INTRODUCTION

On behalf of Niagara Mohawk Power Corporation (d/b/a National Grid), Fisher Associates' Environmental Scientists conducted field delineations between August 6 and October 2, 2019, June 16, 2020, an November 12 and 13, 2020 to identify potential jurisdictional federal Waters of the U.S. (WOTUS) and potential jurisdictional state waters, including wetlands and watercourses within the Project Study Limits defined to support the Lockport-Batavia #112 Rebuild Project (Project). The original Project Study Limits consisted of a 445.14-acre area. An additional field delineation was performed on June 16, 2020 to look at an additional section of the Lockport-Batavia #112 line between Structure 211 and Structure 213. A second additional field delineation was performed on November 12 and November 13, 2020 to look at additional areas within the proposed reroute location along Lewiston Road, an area between Structure 168 and Structure 169, and an extension of the Project Study Limits at Structure 213. The overall Project Study Limits consist of a 468.42-acre area, which encompasses potential construction and limits of disturbance required for the Project. The Project Study Limits are depicted on the attached Wetland and Watercourse Delineation mapping.

## 2.0 SITE INFORMATION

### 2.1 Site Location

The Project Study Limits are located in the Towns of Lockport and Royalton in Niagara County, and the Town of Alabama in Genesee County, New York (see Figure 1: Project Vicinity and Index Map). The Project Study Limits are generally confined to the existing maintained right-of-way (ROW) for the Lockport-Batavia #112 overhead transmission line, between Structure 1.3 to Structure 213. They are located within the Niagara (HUC 04120104) and Oak Orchard-Twelvemile (HUC 04130001) watersheds. The western and central portion of the Project is drained by multiple unnamed tributaries of Mud Creek which flow south into Mud Creek and eventually into Tonawanda Creek. A majority of the eastern portion of the Project is located within the Tonawanda Wildlife Management Area (WMA) and the John White WMA. The Project is in the Ontario-Erie Plain and Finger Lakes Region of the Lake States Fruit, Truck, and Dairy Region.

### 2.2 Site Description

The Project Study Limits are located within an existing right-of-way (ROW) for multiple overhead electrical transmission lines and the area includes commercial, residential, agricultural, and rural residential areas. In the eastern portion of the Project, the Project Study Limits cross the Tonawanda Wildlife Management Area (WMA) and John White WMA. The Tonawanda WMA is comprised of a series of ditches and streams which flow into impounded wetlands/ waterbodies where water levels are manually facilitated. There are three (3) NYSDEC mapped streams within the Tonawanda WMA that flow into Oak Orchard Creek to the north beyond the Project Study Limits. The outflow from the Tonawanda WMA drains into Tonawanda Creek to the south beyond the Project Study Limits. The Project Study Limits are generally bounded by NYS Route 77 to the north; the Erie Canal to the west; NYS Route 98 to the east; and NYS Route 93 to the south (see *Figure 2: Wetland and Watercourse Delineation Map*).

## 3.0 REGULATORY INFORMATION

Both New York State and the U.S. federal government have rules and regulations that must be followed when it comes to defining wetlands and watercourses and which features are determined to be regulated.

### 3.1 Regulatory Definitions

A “tributary” is defined by the USACE as a water that contributes flow, either directly or through another water (including an impoundment) to a water that is characterized by the presence of the physical indicators of a bed and bank and an OHWM. Watercourse flow regimes of either perennial, intermittent or ephemeral were noted for each channel based on the U.S. Environmental Protection Agency’s (EPA) stream definitions (U.S. EPA, 2013) as noted below.

- Perennial (year-round) – Those streams that typically have flowing water in them year-round. Most of the water comes from smaller upstream waters or groundwater while runoff from rainfall or other precipitation is supplemental.
- Intermittent (seasonal) – Those streams that flow during certain time of the year when smaller upstream waters are flowing and when groundwater provides enough water for stream flow. Runoff from rainfall or other precipitation supplements the flow of a seasonal stream. During dry periods, seasonal streams may not have flowing surface water.
- Ephemeral (precipitation dependent) – Those streams which only flow after precipitation. Runoff from rainfall is the primary source of water for these streams.

Additionally, these definitions are based on the understanding of conditions in a “typical year”. Which is the normal periodic range of precipitation and other climactic variables for a waterbody. “Typical year” is a term that ensures agencies are considering normal (i.e. typical) hydrologic flows or surface water connections that occur under normal conditions rather than making jurisdictional determinations based on conditions that are abnormally wet or dry.

Under the Navigable Waters Protection Rule (effective June 22, 2020), the definition of a “ditch” is a constructed or excavated channel used to convey water.

### 3.2 Federal Agency Regulations

In accordance with the Navigable Waters Protection Rule (effective June 22, 2020), and the Clean Water Act, WOTUS that are regulated and jurisdictional by the U.S. Environmental Protection Agency (EPA) and the U.S. Army Corps of Engineers (USACE) are outlined in the below four (4) categories.

- Territorial seas and traditional navigable waters (TNWs) –
  - According to the USACE (33 CFR Part 329), a traditional navigable water are “those waters that are subject to the ebb and flow of the tide and/or are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.”
  - This also includes large rivers and lakes, such as the Mississippi River, the Great Lakes, Chesapeake Bay, and the Erie Canal.
- Tributaries –
  - Tributaries that are jurisdictional are perennial and intermittent rivers and streams that contribute surface flow to traditional navigable waters in a typical year.
  - They must be naturally occurring surface water channels that flow more often than just after a single precipitation event.
  - Tributaries can connect to a traditional navigable water or territorial seas in a typical year either directly or through other WOTUS, through channelized non-jurisdictional surface waters, through artificial features (including culverts), or through natural features (including boulder fields).
  - Ditches are considered tributaries only if:

- They satisfy the flow conditions of a perennial or intermittent tributary definition;
  - And either:
    - were constructed in or relocate a tributary; or
    - were constructed in an adjacent wetland and contribute perennial or intermittent flow to a traditional navigable water.
  - Fully upland ditches, regardless of flow, do not fall within the scope of the Clean Water Act.
- Lakes, ponds and impoundments of jurisdictional waters –
  - Lakes, ponds, and impoundments of jurisdictional waters are jurisdictional where they contribute surface water flow to a traditional navigable water or territorial seas in a typical year either directly or through other WOTUS, through channelized non-jurisdictional surface waters, through artificial features (culverts), or through natural features (boulder fields).
  - These are also jurisdictional where they are flooded by a WOTUS in a typical year, such as certain oxbow lakes.
  - Artificial lakes and ponds, including water storage reservoirs and farm irrigation, stock watering and log cleaning ponds, constructed or excavated in upland or non-jurisdictional waters are excluded from federal jurisdiction.
- Adjacent wetlands –
  - Wetlands that typically touch other WOTUS.
  - Wetlands separated by a WOTUS by only a natural berm, bank or dune.
  - Wetlands inundated by flooding from a WOTUS in a typical year.
  - Wetlands that are physically separated from a jurisdictional water by an artificial dike, barrier or similar structure as long as the structure allows for direct hydrologic surface connection.
  - Adjacent wetland is jurisdictional in its entirety when a road or similar artificial structure divides the wetlands, so long as the structure allows for a direct hydrologic surface connection through or over it in a typical year.

### **3.3 New York State Department of Environmental Conservation Regulations**

The NYSDEC has separate regulations when it comes to determining jurisdiction of wetlands and watercourses within the states borders.

#### **3.3.1 Freshwater Wetlands**

Under Article 24: Freshwater Wetlands Act of the NYS Environmental Conservation Law (ECL) (6NYCRR Part 663, Part 664 and Part 665), the NYSDEC is charged with preventing despoliation and destruction of freshwater wetlands. NYSDEC defines freshwater wetlands as lands and submerged lands, commonly called marshes, swamps, sloughs, bogs, and flats, supporting aquatic or semi-aquatic vegetation. NYSDEC has classified regulated wetlands according to their respective functions, values and benefits into Class I, II, III or IV. Class I wetlands are the most valuable. Except in the Adirondack Park, a freshwater wetland would be regulated by the NYSDEC if it is at least 12.4-acres or an already mapped NYSDEC wetland (see Section 5.1.1). Additionally, upland areas within a 100-feet of a NYSDEC jurisdictional wetland are also regulated.

#### **3.3.2 State Protected Waterways**

Under Article 15: Protection of Waters Program of the NYS ECL (6NYCRR Part 608), the NYSDEC is charged with preserving and protecting the states lakes, rivers, streams and ponds. All waters of the state are provided a class and standard designation based on existing or expected best usage of each water or waterway segment. These are:

- Classification AA or A is assigned to waters used as a source of drinking water.
- Classification B indicates a best usage for swimming and other contact recreation, but not for drinking water.
- Classification C is for waters supporting fisheries and suitable for non-contact activities.
- The lowest Classification and standard is D.

Waters with Classifications A, B, and C may also have a standard designation of (T), indicating that it may support trout population, or (TS) indicating that it may support trout spawning. Small waterbodies (ponds and lakes) with a surface area of less than 10-acres, located within the stream course are considered part of the stream and subject to regulation. Streams and small waterbodies with a Classification of AA, A or B, or with a Classification C with a standard designation of (T) or (TS) are collectively referred to as “protected streams” and are subject to the stream protection provisions of the Protection of Waters regulation.

## 4.0 METHODOLOGY

### 4.1 Preliminary Offsite Investigation/ Data Review

A review of publicly available resources was performed prior to the onsite field investigation in order to determine if there is the potential for jurisdictional areas, and if present, the extent of these areas located within the Project Study Limits. These mapping resources are represented on *Figure 2: Wetland and Watercourse Delineation Map* and generally include but are not limited to:

- New York State Freshwater Wetlands Mapping (NYSFW);
- New York State Protection of Waters Regulatory Program Streams Mapping (NYSS);
- U.S. Fish & Wildlife Service (USFWS) National Wetlands Inventory (NWI) Database;
- U.S. Department of Agriculture (USDA) Natural Resource Conservation Service (NRCS) Soils Database; and
- United States Geographical Survey (USGS) Mapping.

### 4.2 Wetland Field Investigations

Wetland boundaries were field delineated according to the routine onsite methodology described in the *1987 U.S. Army Corps of Engineers (USACE) Wetland Delineation Manual*, the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)* (2012 Regional Supplement), and the *1995 New York State Freshwater Wetlands Delineation Manual*.

Wetlands were identified based on the presence of hydric soils; a vegetative community dominated by hydrophytes, and inundated or saturated conditions, and/or indicators of hydrologic patterns. Wetlands within the Project Study Limits were classified according to the USFWS *Classification of Wetland and Deepwater Habitats of the United States*. Wetland classifications were based on vegetation type and dominance: palustrine emergent (PEM), palustrine scrub-shrub (PSS), palustrine forested (PFO), and palustrine open-water (POW). A project-specific identification number was given to the delineated wetland. Wetland delineation data relative to vegetation, hydrology, soils and general observations was documented on routine wetland data forms consistent with the guidance of the 2012 Regional Supplement.

The wetland boundaries were recorded with a sub-meter accuracy global positioning system (GPS) unit to further clarify their locations. Wetland field data points were established within close proximity to wetland boundaries in order to document upland/ dryland and wetland conditions existing along wetland boundaries.

Mapping depicting the location of the delineated wetlands within the Project Study Limits are provided as an attachment (see *Figure 2: Wetland and Watercourse Delineation Map*). Photographs were taken at the field data points to document conditions along the delineation boundary. Supporting wetland determination data forms are provided in *Appendix A*. Representative site photographs are provided in *Appendix D*.

### **4.3 Watercourse Field Investigations**

Watercourses such as stream channels, tributaries, ditches and linear conveyance features were identified based on the recognition of field indicators of bed, bank, and an ordinary high-water mark (OHWM) coupled with an evaluation of flow type (perennial, intermittent or ephemeral) and connectivity.

If observed, Fisher Associates' environmental scientists delineated and flagged watercourse boundaries in the field and the flagged locations were recorded with a sub-meter accuracy GPS unit to further clarify their locations. Top of Bank widths as well as OHWM widths were recorded throughout the length of the watercourse. Mapping depicting the location of the delineated watercourses, including streams and ditches, identified within the Project Study Limits are provided as an appendix (see *Figure 2: Wetland and Watercourse Delineation Map*).

Any ditches observed within the Project Study Limits were flagged in the field and mapped. Jurisdiction of ditches were determined during post-processing of field data based on their connectivity to other WOTUS. Observed watercourse characteristics were recorded on supporting stream and ditch data forms and are provided in *Appendix B and C*, respectively. Representative site photographs are provided in *Appendix D*.

## **5.0 DELINEATION FINDINGS**

### **5.1 Preliminary Offsite Investigation/ Data Review Findings**

#### **5.1.1 NYS Freshwater Wetland Mapping**

The NYSFW maps were developed by the NYSDEC pursuant to Article 24: Freshwater Wetlands of the ECL. These maps depict the approximate boundaries of freshwater wetlands regulated by the NYSDEC. In most instances, the State-mapped boundaries are based on aerial photographs and soil survey interpretation and, therefore, require site-specific field verification. Freshwater wetland mapping information identified for the Project Study Limits was obtained from online Geographic Information System (GIS) mapping resources made available by the NYSDEC (NYSDEC, 2021). Based on reviewed mapping information, eight (8) NYSDEC Wetlands or their mapped 100-foot upland adjacent areas were mapped within the Project Study Limits. These consist of NYSDEC Wetlands LP-23 (Class 2), GA-22 (Class 3), GA-21 (Class 3), GA-6 (Class 2), MD-1 (Class 1), AK-2 (Class 2), AK-3 (Class 2), and AK-4 (Class 2).

#### **5.1.2 NYS Streams Mapping**

The NYSS maps were developed by the NYSDEC pursuant to Article 15: Protection of Waters Program of the ECL. These maps depict the approximate locations of streams mapped by NYSDEC and identify their respective state water quality classification and standard designations based on existing or expected best usage of each water segment. These stream layers are available through the NYSDEC Environmental Resource Mapper (ERM) and the NYS Clearinghouse. In most instances, the mapped stream locations are based on aerial photographs and topographic map interpretation and, therefore, require site-specific field verification. Stream mapping information identified for the Project Study Limits was obtained from online GIS mapping resources made available by the NYSDEC (NYSDEC, 2021). Based on reviewed mapping information publicly available through the ERM, eleven (11) NYSS are mapped within the Project Study Limits. NYS Barge Canal (Class C), an unnamed tributary to Tonawanda Creek (Class B), an unnamed

tributary to Tonawanda Creek (Class C), three (3) unnamed tributaries to Mud Creek (Class C), Mud Creek (Class C), and three (3) unnamed tributaries to Oak Orchard Creek (Class C) are mapped within the Project Study Limits.

### 5.1.3 National Wetlands Inventory Mapping

NWI mapping information for the Project Study Limits was obtained from online GIS mapping resources made available by the USFWS (USFWS, 2021). A review of this information was completed which indicated that seventy-nine (79) mapped NWI wetlands are mapped within the Project Study Limits. However, it is understood that this mapping is provided as a reference and is not necessarily indicative of the presence or absence of wetlands in an area. Below is a list of the Cowardin Classifications of the NWI wetlands that are mapped within the Project Study Limits.

<b>Cowardin Classification Code Descriptions for NWIs within the Project Study Limits</b>	
<b>Classification Code</b>	<b>Description</b>
<b>L1UBHh</b>	Lacustrine (L), Limnetic (1), Unconsolidated Bottom (UB), Permanently Flooded (H), Diked/Impounded (h)
<b>L1UBHx</b>	Lacustrine (L), Limnetic (1), Unconsolidated Bottom (UB), Permanently Flooded (H), Excavated (x)
<b>PEM1/SS1B</b>	Palustrine (P), Emergent (EM), Persistent (1)/ Scrub-Shrub (SS), Broad-Leaved Deciduous (1), Seasonally Saturated (B)
<b>PEM1/UBFh</b>	Palustrine (P), Emergent (EM), Persistent (1), Unconsolidated Bottom (UB), Semi Permanently Flooded (F), Diked/Impounded (h)
<b>PEM1B</b>	Palustrine (P), Emergent (EM), Persistent (1), Seasonally Saturated (B)
<b>PEM1E</b>	Palustrine (P), Emergent (EM), Persistent (1), Seasonally Flooded/Saturated (E)
<b>PEM1Eh</b>	Palustrine (P), Emergent (EM), Persistent (1), Seasonally Flooded/Saturated (E), Diked/Impounded (h)
<b>PEM1Fh</b>	Palustrine(P), Emergent (EM), Persistent (1), Semi Permanently Flooded (F), Diked/Impounded (h)
<b>PEM1K</b>	Palustrine (P), Emergent (EM), Persistent (1), Artificially Flooded (K)
<b>PFO1/SS1E</b>	Palustrine(P), Forested (FO), Broad-Leaved Deciduous (1)/ Scrub-Shrub (SS), Broad Leaved Deciduous (1), Seasonally Flooded/Saturated (E)
<b>PFO1A</b>	Palustrine (P), Forested (FO), Broad-Leaved Deciduous (1), Temporary Flooded (A)
<b>PFO1B</b>	Palustrine (P), Forested (FO), Broad- Leaved Deciduous, Seasonally Saturated (B)
<b>PFO1Bd</b>	Palustrine (P), Forested (FO), Broad- Leaved Deciduous, Seasonally Saturated (B), Partially Drained/Ditched (d)
<b>PFO1E</b>	Palustrine (P), Forested (FO), Broad-Leaved Deciduous (1), Seasonally Flooded/Saturated (E)
<b>PFO1Eh</b>	Palustrine (P), Forested (FO), Broad-Leaved Deciduous (1), Seasonally Flooded/Saturated (E), Diked/Impounded (h)
<b>PSS1/EM1E</b>	Palustrine (P), Scrub-Shrub (SS), Broad-Leaved Deciduous (1)/ Emergent (EM), Persistent (1), Seasonally Flooded/Saturated (E)
<b>PUB/EM1Fh</b>	Palustrine (P), Unconsolidated Bottom (UB), Emergent (EM), Persistent (1), Semi-Permanently Flooded (F), Diked/Impounded (h)
<b>PUBFx</b>	Palustrine (P), Unconsolidated Bottom, Semi Permanently Flooded (F), Excavated (x)
<b>PUBHh</b>	Palustrine (P), Unconsolidated Bottom (UB), Permanently Flooded (H), Diked/Impounded (h)

<b>Cowardin Classification Code Descriptions for NWIs within the Project Study Limits</b>	
<b>Classification Code</b>	<b>Description</b>
<b>R2UBHx</b>	Riverine (R), Lower Perennial (2), Unconsolidated Bottom (UB), Permanently Flooded (H), Excavated (x)
<b>R4SBA</b>	Riverine (R), Intermittant (4), Streambed (SB), Temporary Flooded
<b>R4SBC</b>	Riverine (R), Intermittent (4), Streambed (SB), Seasonally Flooded (C)
<b>R4SBCx</b>	Riverine (R), Intermittent (4), Streambed (SB), Seasonally Flooded (C), Excavated (x)

#### 5.1.4 Soils Mapping

Soil types identified for the Project Study Limits were obtained from online GIS mapping resources made available by the NRCS (USDA-NRCS, 2021). A review of this information was completed to evaluate the soil types within the Project Study Limits to determine the possible presence of hydric soils.

Soil types of predominantly hydric soils were identified within the Project Study Limits and are listed below. Percent hydric ratings are determined by NRCS according to the percentage of map unit components for a soil that meet NRCS' hydric soils definition. The mapped soils at each wetland location, including instances where there may be more than one (1) soil map unit identified at a given wetland location, are described in *Table 1: Wetland Delineation Summary*. Mapped soils present within the Project Study Limits are depicted on *Figure 2: Wetland and Watercourse Delineation Map*.

<b>List of NRCS Soil Types within the Project Study Limits</b>		
<b>Map Unit Symbol</b>	<b>Map Unit Name</b>	<b>Percent Hydric</b>
ApA	Appleton silt loam, 0 to 3 percent slopes	4
ArB	Arkport very fine sandy loam, 0 to 6 percent slopes	0
AsA	Arkport fine sandy loam, gravelly substratum, 0 to 2 percent slopes	0
Ca	Canandaigua silt loam	86
CaA	Canandaigua silt loam, 0 to 2 percent slopes	95
Cb	Canandaigua silty clay loam	92
CbA	Canandiagua mucky silt loam, 0 to 2 percent slopes	95
CeB	Cazenovia silt loam, 3 to 8 percent slopes	0
ClA	Churchville silt loam, 0 to 2 percent slopes	8
CIB	Churchville silt loam, 2 to 6 percent slopes	4
CnB	Collamer silt loam, 2 to 6 percent slopes	4
Cu	Cut and fill land	5
DuB	Dunkirk silt loam, 2 to 6 percent slopes	0
EIB	Elnora loamy fine sand, 2 to 6 percent slopes	0
Fo	Fonda mucky silt loam	96
FpA	Fredon gravelly loam, 0 to 3 percent slopes	10
GnB	Galen very fine sandy loam, 2 to 6 percent slopes	0
HIA	Hilton silt loam, 0 to 3 percent slopes	0
HIB	Hilton silt loam, 3 to 8 percent slopes	0
HmA	Hilton and Cayuga soils, 0 to 3 percent slopes, bedrock substratum	0

<b>List of NRCS Soil Types within the Project Study Limits</b>		
<b>Map Unit Symbol</b>	<b>Map Unit Name</b>	<b>Percent Hydric</b>
HoB	Howard gravelly loam, 3 to 8 percent slopes	0
HsB	Hudson silt loam, 2 to 6 percent slopes	0
La	Lakemont silty clay loam, 0 to 3 percent slopes	95
Lc	Lakemont silty clay loam, 0 to 3 percent slopes	95
Ld	Lamson very fine sandy loam	92
Lg	Lamson fine sandy loam, gravelly substratum	92
LmB	Lima silt loam, 3 to 8 percent slopes	1
Ma	Madalin silt loam, 0 to 3 percent slopes	93
Md	Madalin silt loam, loamy subsoil variant	82
Mf	Massena fine sandy loam	57
MnA	Minoa very fine sandy loam, 0 to 2 percent slopes	5
NaA	Niagara silt loam, 0 to 2 percent slopes	4
NgA	Niagara silt loam, 0 to 2 percent slopes	5
OdA	Odessa silty clay loam, 0 to 3 percent slopes	5
OdB	Odessa silty clay loam, 3 to 8 percent slopes	4
OnB	Ontario loam, 3 to 8 percent slopes	0
OnC	Ontario loam, 8 to 15 percent slopes	0
OvA	Ovid silt loam, 0 to 2 percent slopes	4
OvB	Ovid silt loam, 2 to 6 percent slopes	2
OwA	Ovid silt loam, limestone substratum, 0 to 3 percent slopes	5
Pd	Palms muck	100
PsA	Phelps gravelly loam, 0 to 5 percent slopes	0
PsB	Phelps gravelly loam, 3 to 8 percent slopes	0
RbA	Rhinebeck silt loam, 0 to 2 percent slopes	8
RoA	Rock land, nearly level	0
RsA	Romulus silt loam, 0 to 3 percent slopes	85
SeB	Schoharie silt loam, 1 to 6 percent slopes	0
SmB	Scio silt loam, 2 to 8 percent slopes	0
W	Water	0
Wy	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	90

## **5.2 Wetland Field Investigation Findings**

### **5.2.1 Wetland Area Summary**

The onsite delineation verified the presence of wetlands and confirmed the presence of hydric soils depicted on the NRCS soils mapping. Twenty-eight (28) wetlands, totaling 153.59-acres, were delineated within the Project Study Limits. There were twenty-seven (27) PEM wetland components totaling 145.75-acres, four (4) PSS wetland components totaling 4.63-acres, three (3) PFO wetland components totaling 2.65-acres, and one (1) open-water (PUB) system totaling 0.56-acres were delineated within the Project Study Limits. Of the delineated wetlands Wetland 005 (PEM) is associated with NYSDEC Wetland LP-23, Wetland 016 (PEM & PSS) is associated with NYSDEC Wetland GA-22, Wetlands 017 (PEM & PFO) and 018 (PEM)

are associated with NYSDEC Wetland GA-21, and Wetland 020 (PEM) is associated with NYSDEC Wetland GA-6.

Additionally Wetlands 023 (PEM, PSS, and PFO) (associated with NYSDEC Wetland AK-2, AK-3, and AK-4) and Wetland 027 (PEM & PFO) (associated with NYSDEC Wetland MD-1) were delineated within the Tonawanda WMA. However, the ROW for the existing utility line is primarily located on an upland berm running through the center of the WMA with wetlands on either side of the berm. Also, Wetland 022 (PEM) was delineated within the southeastern portion of the John White WMA. A summary of the wetlands identified, the location (latitude/longitude), presumed jurisdiction and total wetland area delineated within the Project Study Limits is provided in Table 1: Wetland Delineation Summary. The location and size of wetlands delineated onsite are shown on Figure 2: Wetland and Watercourse Delineation Map.

### 5.2.2 Wetland Vegetation

The criterion for wetland vegetation is a dominance of hydrophytic species. A species is considered hydrophytic per USACE (1987 and 2012) if it is classified either as obligate (OBL), facultative wet (FACW), or facultative (FAC) in *The National Wetland Plant List, version 3.4 (USACE, 2018)*. A dominance of hydrophytes requires that more than 50% of the vegetative species in an area are classified as hydrophytic.

The delineated wetlands consist of PEM, PSS, and PFO wetlands that exist in a ROW with multiple overhead transmission lines running throughout. The vegetation was consistent throughout the Project within the wetland types and saw little variance. The PEM wetlands generally consisted of Phragmites (*Phragmites australis*), Purple Loosestrife (*Lythrum salicaria*), Narrow Leaved Cattail (*Typha angustifolia*), and Boneset (*Eupatorium perfoliatum*). The PSS wetlands generally consisted of Gray Dogwood (*Cornus racemosa*), Morrow's Honeysuckle (*Lonicera morrowii*), and Black Willow (*Salix nigra*). The PFO wetland consisted of Silver Maple (*Acer saccharinum*). The wetland determination data forms which provide expanded detail of the wetlands identified within the Project Study Limits can be found in *Appendix A*. Wetland vegetation community types observed at each wetland are summarized in *Table 1: Wetland Delineation Summary*.

### 5.2.3 Wetland Hydrology

The Project Study Limits were examined for field indicators of wetland hydrology. According to USACE (1987 and 2012), wetland hydrology consists of permanent or periodic inundation, or soil saturation to the surface during the growing season. If these indicators were present within the sample plots, the hydrology criterion was met.

Generally, wetlands identified within the Project Study Limits in the western and central portions of the Project receive hydrologic input from surface water runoff. Specifically, in the eastern portion of the Project the ROW cuts through commercial and residential areas where surface runoff from the adjacent roads and parking lots flow into the low areas of the ROW and pool creating standing water and wetlands. In the central portion the runoff is coming from the surrounding agricultural fields and shared surfaces with farm drainage ditches that cut throughout the ROW. In the eastern portion of the Project the majority of the wetlands were observed within the Tonawanda WMA, where they receive hydrological input from a series of feeder ditches and streams that flow throughout the WMA. Additionally, water is stored in the WMA in a series of diked ponds and are artificially controlled through a series of water control structures. In general, the hydrological indicators observed throughout the Project were Drainage Patterns (B10), Geomorphic Positions (D2), Microtopographic Relief (D4), and FAC-Neutral Test (D5). Hydrologic indicators observed at each delineated wetland were recorded on the wetland determination data forms presented in *Appendix A*.

#### 5.2.4 Wetland Soils

Soil physical characteristics were evaluated during the field delineations by excavating to a depth appropriate to evaluate potential hydric soil indicators below ground surface. Soil color was evaluated using *Munsell Soil Color Charts* (Munsell, 2000). Soils that exhibited hydric soil indicators, such as low chroma colors and/or evidence of reducing conditions met the hydric soil criterion per USACE (1987 and 2012).

Wetland soils observed during the excavations within the Project Study Limits generally consisted of Soil samples within wetland areas were a silty clay loam texture possessing a dark brown (10 YR 3/1) matrix with reddish (7.5 YR 5/8) redox concentrations. This soil profile was common throughout the whole Project. The Redox Dark Surface (F6) and Depleted Matrix were the two (2) hydric soil indicator conditions observed within the soil profiles throughout the Project. Characteristics observed at each data point are summarized in the wetland determination data forms included in *Appendix A*.

### 5.3 **Watercourse Field Investigation Findings**

#### 5.3.1 Stream Summary

Ten (10) stream reaches, totaling 3,575-linear feet, were delineated within the Project Study Limits. The NYS State Barge Canal (Stream 001), also known as the Erie Canal, was observed within the far western portion of the Project and is a NYSDEC mapped Class C stream. Stream 001, NYS Barge Canal (Erie Canal), is listed as a navigable waterway under Section 10 of the Rivers and Harbors Act of 1899 and is also managed by the NYS Canal Corporation. Stream 002 is a unnamed minor tributary to Tonawanda Creek and is a NYSDEC mapped Class B stream. Stream 009, an unnamed tributary to Tonawanda Creek, is a NYSDEC mapped Class C stream, and is also located in the Tonawanda WMA. Streams 007 and 008 are Unnamed Tributaries to Mud Creek and are NYSDEC mapped Class C streams. Mud Creek (Stream 010) observed in the central portion of the Project, is a NYSDEC mapped Class C stream. The remaining four (4) streams (Stream 003, 004, 005, and 006) are Class D streams because they are intermittent stream channels and are not previously mapped NYSDEC streams. Additionally, the three (3) NYSDEC mapped unnamed tributaries to Oak Orchard that are shown on the NYSDEC ERM flowing through the Tonowanda WMA were not observed during the field delineation, because channels were not observed. These areas have been constricted by berms creating impounded waters with wetland characteristics now rather than stream channels and have been mapped as wetlands instead.

Generally, the streams observed throughout the Project flow south and eventually flow into Tonawanda Creek which flows into the Niagara River, and the Erie Canal flows west and flows into Lake Erie beyond the Project Study Limits. Thus, since all of the delineated streams either flow into Lake Erie, the Erie Canal or Tonawanda Creek they are considered to be WOTUS.

A summary of the streams identified within the Project Study Limits is provided in *Table 2: Stream Delineation Summary*. The location of streams delineated onsite is shown on *Figure 2: Wetland and Watercourse Delineation Map*.

#### 5.3.2 Ditch Summary

Twenty-five (25) ditches, totaling 4,643-linear feet, were delineated within the Project Study Limits. Of these, six (6) were intermittent and the remaining 19 were ephemeral ditches. The majority of the ditches observed were non-jurisdictional roadside ditches or man-made agricultural ditches draining adjacent agricultural fields. One (1) ditch, Ditch 010, is considered to be a jurisdictional ditch as it flows south and is adjacent to NYSDEC Wetland GA-22 outside the Project Study Limits and has a intermittent flow regime.

A summary of the ditches identified within the Project Study Limits is provided in *Table 3: Ditch Delineation Summary* and on the data forms provided in *Appendix C*. The locations of ditches delineated onsite are shown on *Figure 2: Wetland and Watercourse Delineation Map*.

#### 5.4 Upland/ Dryland Area Summary

During the field investigation of the Project Study Limits, approximately 314.83-acres of upland/ dryland or non-jurisdictional areas were identified. The majority of the identified upland/ dryland areas are partially maintained existing utility ROWs and agricultural fields that extend into the Project Study Limits. Upland/ dryland vegetation generally consisted of a mix of Queen Ann's lace (*Daucus carota*), cutleaf teasel (*Dipsacus laciniatus*), spotted knapweed (*Centaurea stoebe*), Canada goldenrod (*Solidago Canadensis*), and perennial rye (*Lolium perenne*). Upland/ dryland soils were predominantly dark brown (10YR 3/2) and were consistent throughout the soil profile down to twenty (20) inches below the ground surface. Generally, no indicators of wetland hydrology were observed within the upland/ dryland areas. The location and size of upland/ dryland areas are depicted on *Figure 2: Wetland and Watercourse Delineation Map*.

## 6.0 SUMMARY AND CONCLUSIONS

Fisher Associates conducted wetland and watercourse field delineations associated with the Project between August 6 and October 2, 2019, on June 16, 2020, and November 12 and November 13, 2020. Twenty-eight (28) wetlands, totaling 153.59-acres, were delineated within the Project Study Limits. There were twenty-seven (27) PEM wetland components totaling 145.75-acres, four (4) PSS wetland components totaling 4.63-acres, three (3) PFO wetland components totaling 2.65-acres, and one (1) open-water (PUB) system totaling 0.56-acres were delineated within the Project Study Limits. Ten (10) stream reaches, totaling 3,575-linear feet, were delineated within the Project Study Limits. This included the NYS Barge Canal (Class C), one (1) unnamed tributary to Tonawanda Creek (Class B), three (3) unnamed tributaries to Mud Creek (Class C), Mud Creek (Class C), and four (4) unmapped tributaries to Mud Creek (Class D) were delineated within the Project Study Limits. Twenty-five (25) ditches were observed within the Project Study Limits. Twenty-five (25) ditches, totaling 4,643-linear feet, were delineated within the Project Study Limits.

A summary of the presumed jurisdiction of features identified within the Project Study Limits is provided in their respective tables (*Table 1: Wetland Delineation Summary*; *Table 2: Stream Delineation Summary*; *Table 3: Ditch Delineation Summary Table*). Based on conditions observed, the USACE will likely invoke jurisdiction over the ten (10) delineated streams due to their perennial and intermittent flow regime as well as their connection to a Traditional Navigable Water. The USACE will also likely take jurisdiction over eighteen (18) of the twenty-eight (28) delineated wetlands because they are adjacent wetlands as defined by the USACE. Additionally, the USACE is anticipated to take jurisdiction over Ditch 010 due to its intermittent flow and it is flowing through an adjacent wetland. Additionally, delineated Stream 001 is a section of the NYS Barge Canal (Erie Canal) system and is listed as a navigable waterway under Section 10 of the Rivers and Harbors Act of 1899.

It is anticipated that the New York State Department of Environmental Conservation (NYSDEC) will invoke jurisdiction over Wetland 005 (PEM) (associated with NYSDEC Wetland LP-23), Wetland 016 (PEM & PSS) (associated with NYSDEC Wetland GA-22), Wetlands 017 (PEM & PFO) and 018 (PEM) (associated with NYSDEC Wetland GA-21), Wetland 020 (PEM) (associated with NYSDEC Wetland GA-6), Wetland 023 (PEM & PSS) (associated with NYSDEC Wetland AK-2, AK-3, and AK-4), and Wetland 027 (PEM & PFO) (associated with NYSDEC Wetland MD-1) under Article 24: Freshwater wetlands of the Environmental Conservation Law (ECL). Also, the NYSDEC may invoke jurisdiction over delineated Wetland 022 (PEM) because it is located within the John White WMA which has been owned and managed by the NYSDEC since 1945. It is expected that the NYSDEC will not invoke jurisdiction over the remaining

delineated wetland systems throughout the Project Study Limits as they are not within close proximity (i.e., less than 50 meters) of mapped NYSDEC wetlands and their regulated 100-foot adjacent areas.

Additionally, it is anticipated that the NYSDEC will invoke jurisdiction over delineated Stream 002, an Unnamed Tributary to Tonawanda Creek, under Article 15: Protected Waters Program of the ECL, as it is a mapped NYSDEC Class B stream. It is also possible that the NYSDEC will invoke jurisdiction over delineated Stream 009 due to its location within the Tonawanda WMA, which is managed by the NYSDEC as well as Stream 001, the Erie Canal, as it operated by the NYS Canal Corporation. It is expected that the NYSDEC will not invoke jurisdiction over the remaining seven (7) stream reaches identified within the Project Study Limits as they are recognized as either Class C or D stream reaches. It is expected that the NYSDEC will not invoke jurisdiction over the delineated ditches since NYSDEC typically does not regulate ditches.

## 7.0 STATEMENT OF LIMITATIONS

This investigation was limited to the Project Study Limits defined for this Project and which are depicted on *Figure 1: Project Vicinity and Index Map* and *Figure 2: Wetland and Watercourse Delineation Map*. Fisher Associates' did not examine areas outside of the Project Study Limits, thus no information is provided regarding the presence or absence of regulated or non-regulated wetlands and watercourses outside of the Project Study Limits.

Permission was obtained from the NYSDEC in order to access the Tonawanda and John White WMAs. Heidi Kennedy, Wildlife Biologist from the NYSDEC, was the contact person for the Project and was notified each time access to the WMAs was needed.

The wetland and watercourse field delineation/investigation was conducted between August 6 and October 2, 2019, on June 16, 2020, and November 12 and 13, 2020 by Fisher Associate's environmental scientists. Human-induced or natural changes at the site may occur after this date which may cause changes in the presence and extent of regulated and non-regulated wetlands and watercourses.

## 8.0 SIGNATURES

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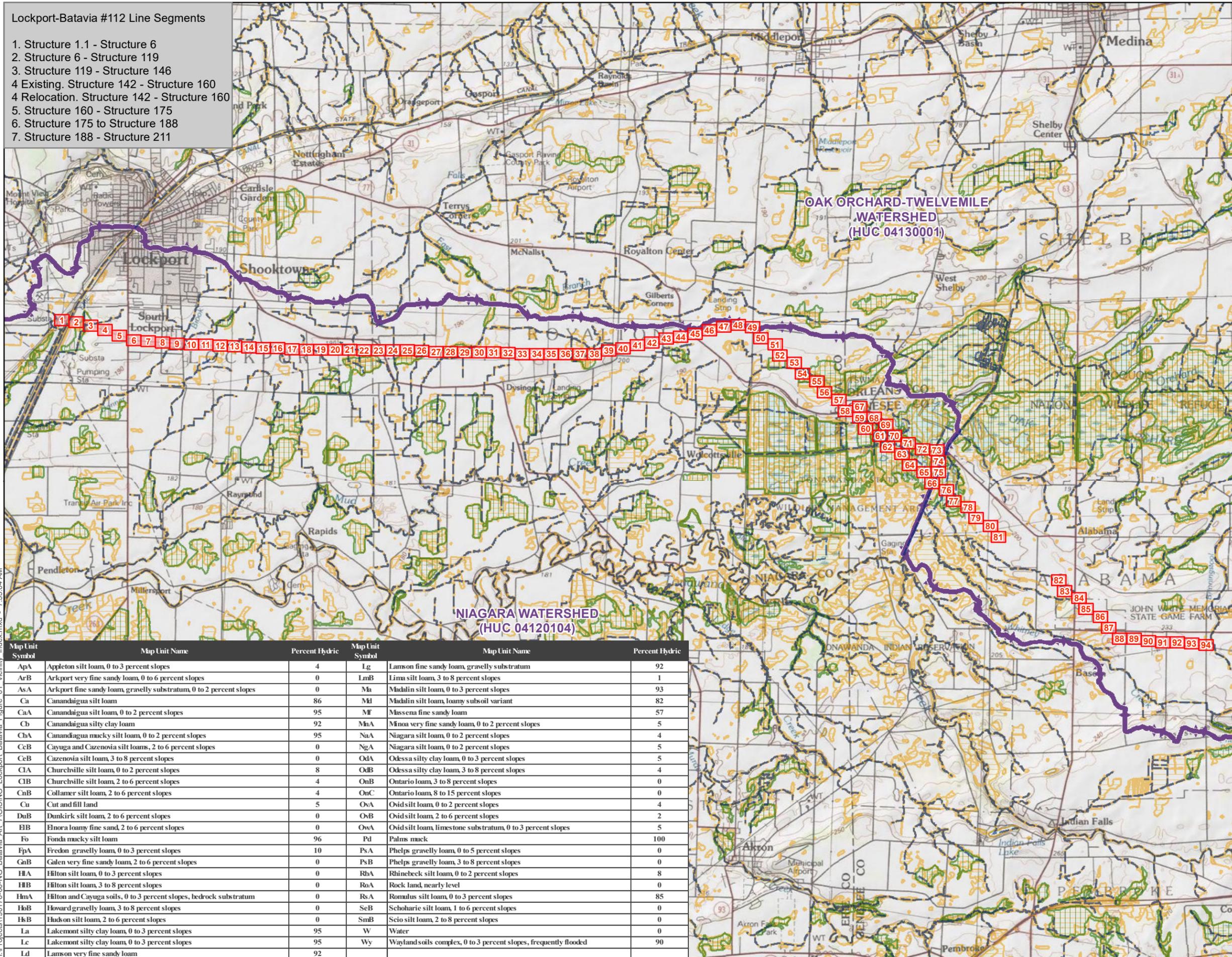
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## FIGURES

Lockport-Batavia #112 Line Segments

1. Structure 1.1 - Structure 6
2. Structure 6 - Structure 119
3. Structure 119 - Structure 146
- 4 Existing. Structure 142 - Structure 160
- 4 Relocation. Structure 142 - Structure 160
5. Structure 160 - Structure 175
6. Structure 175 to Structure 188
7. Structure 188 - Structure 211



**NATIONAL GRID**  
**LOCKPORT-BATAVIA #112 REBUILD PROJECT**  
**FIGURE 1: PROJECT VICINITY AND INDEX MAP**

— NYSDEC Streams  
▨ NYSDEC Wetland  
▨ NWI Wetlands  
▭ Watershed Boundary  
▭ Mapsheet

Project USGS Quad(s):  
 Akron, Gasport, Lockport, Medina, Oakfield

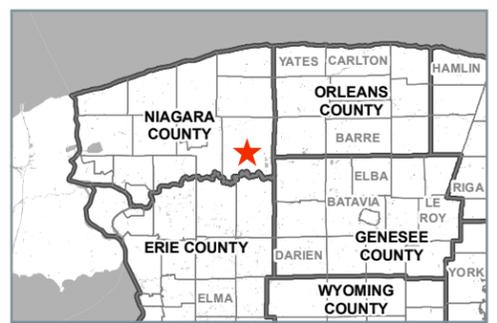
Project Watershed(s):  
 Niagara (HUC 04120104)  
 Oak Orchard - Twelve Mile (HUC 04130001)

Map Revision Date: 1/7/2021    Map Author: MFA

0
0.75
1.5 Miles

Project Study Limits:  
 468.42 Acres

Center of Project Study Limits:  
 43.139915 N, 78.54395 W  
 North American Datum 1983



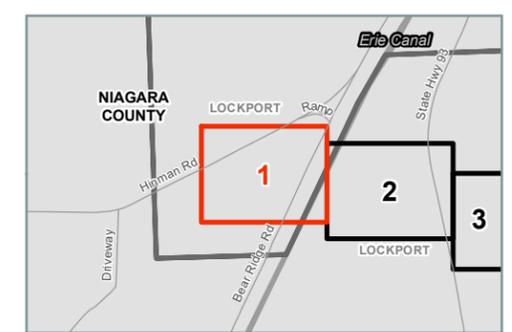
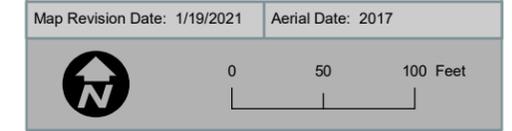
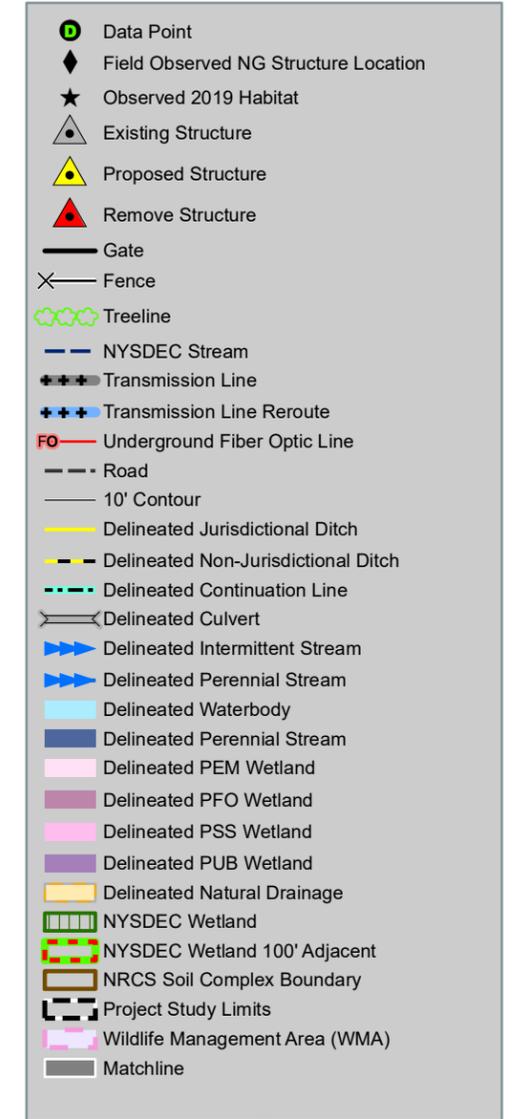
Data Sources:

United States Geological Survey 24k Topo Quad Map - [usgs.gov](http://usgs.gov)  
 Aerial Photography: ESRI World Imagery - [arcgis.com](http://arcgis.com)  
 Wetlands: National Wetland Inventory (5/1/2014) - [fws.gov/wetlands/](http://fws.gov/wetlands/)  
 Soils: NRCS Soil Survey (8/24/2015) - [gdg.sc.egov.usda.gov](http://gdg.sc.egov.usda.gov)  
 Watersheds: USGS NHD (3/9/2015) - [nhd.usgs.gov](http://nhd.usgs.gov)  
 Contours: US Geological Survey (4/14/2008) - <http://nationalmap.gov/elevation.html>

Map Unit Symbol	Map Unit Name	Percent Hydric	Map Unit Symbol	Map Unit Name	Percent Hydric
ApA	Appleton silt loam, 0 to 3 percent slopes	4	Lg	Lanson fine sandy loam, gravelly substratum	92
ArB	Arkport very fine sandy loam, 0 to 6 percent slopes	0	LmB	Lima silt loam, 3 to 8 percent slopes	1
AsA	Arkport fine sandy loam, gravelly substratum, 0 to 2 percent slopes	0	Ma	Maddin silt loam, 0 to 3 percent slopes	93
Ca	Canandaigua silt loam	86	Ml	Maddin silt loam, loamy subsoil variant	82
CaA	Canandaigua silt loam, 0 to 2 percent slopes	95	Mf	Massena fine sandy loam	57
Cb	Canandaigua silty clay loam	92	MnA	Minoa very fine sandy loam, 0 to 2 percent slopes	5
CaB	Canandaigua mucky silt loam, 0 to 2 percent slopes	95	NaA	Niagara silt loam, 0 to 2 percent slopes	4
CeB	Cayuga and Cazenovia silt loams, 2 to 6 percent slopes	0	NgA	Niagara silt loam, 0 to 2 percent slopes	5
CeB	Cazenovia silt loam, 3 to 8 percent slopes	0	Oda	Odessa silty clay loam, 0 to 3 percent slopes	5
ClA	Churchville silt loam, 0 to 2 percent slopes	8	OdB	Odessa silty clay loam, 3 to 8 percent slopes	4
ClB	Churchville silt loam, 2 to 6 percent slopes	4	OnB	Ontario loam, 3 to 8 percent slopes	0
CnB	Collamer silt loam, 2 to 6 percent slopes	4	OnC	Ontario loam, 8 to 15 percent slopes	0
Cu	Cut and fill land	5	OvA	Ovid silt loam, 0 to 2 percent slopes	4
DuB	Dunkirk silt loam, 2 to 6 percent slopes	0	OvB	Ovid silt loam, 2 to 6 percent slopes	2
EBB	Elora loamy fine sand, 2 to 6 percent slopes	0	OwA	Ovid silt loam, limestone substratum, 0 to 3 percent slopes	5
Fo	Fonda mucky silt loam	96	Pd	Palms muck	100
FpA	Fredon gravelly loam, 0 to 3 percent slopes	10	PsA	Phelps gravelly loam, 0 to 5 percent slopes	0
GnB	Galen very fine sandy loam, 2 to 6 percent slopes	0	PsB	Phelps gravelly loam, 3 to 8 percent slopes	0
HA	Hilton silt loam, 0 to 3 percent slopes	0	RhA	Rhinbeck silt loam, 0 to 2 percent slopes	8
HB	Hilton silt loam, 3 to 8 percent slopes	0	RoA	Rock land, nearly level	0
HmA	Hilton and Cayuga soils, 0 to 3 percent slopes, bedrock substratum	0	RsA	Romulus silt loam, 0 to 3 percent slopes	85
HbB	Howard gravelly loam, 3 to 8 percent slopes	0	SeB	Schoharie silt loam, 1 to 6 percent slopes	0
HbB	Hudson silt loam, 2 to 6 percent slopes	0	Smb	Scio silt loam, 2 to 8 percent slopes	0
La	Lakemont silty clay loam, 0 to 3 percent slopes	95	W	Water	0
Lc	Lakemont silty clay loam, 0 to 3 percent slopes	95	Wy	Wayland soils complex, 0 to 3 percent slopes, frequently flooded	90
Ld	Lanson very fine sandy loam	92			

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**NATIONAL GRID  
LOCKPORT-BATAVIA #112 REBUILD PROJECT  
FIGURE 2: WETLAND AND WATERCOURSE  
DELINEATION MAP**



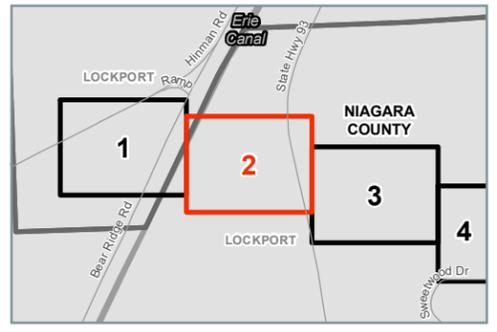
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NATIONAL GRID  
LOCKPORT-BATAVIA #112 REBUILD PROJECT  
FIGURE 2: WETLAND AND WATERCOURSE  
DELINEATION MAP

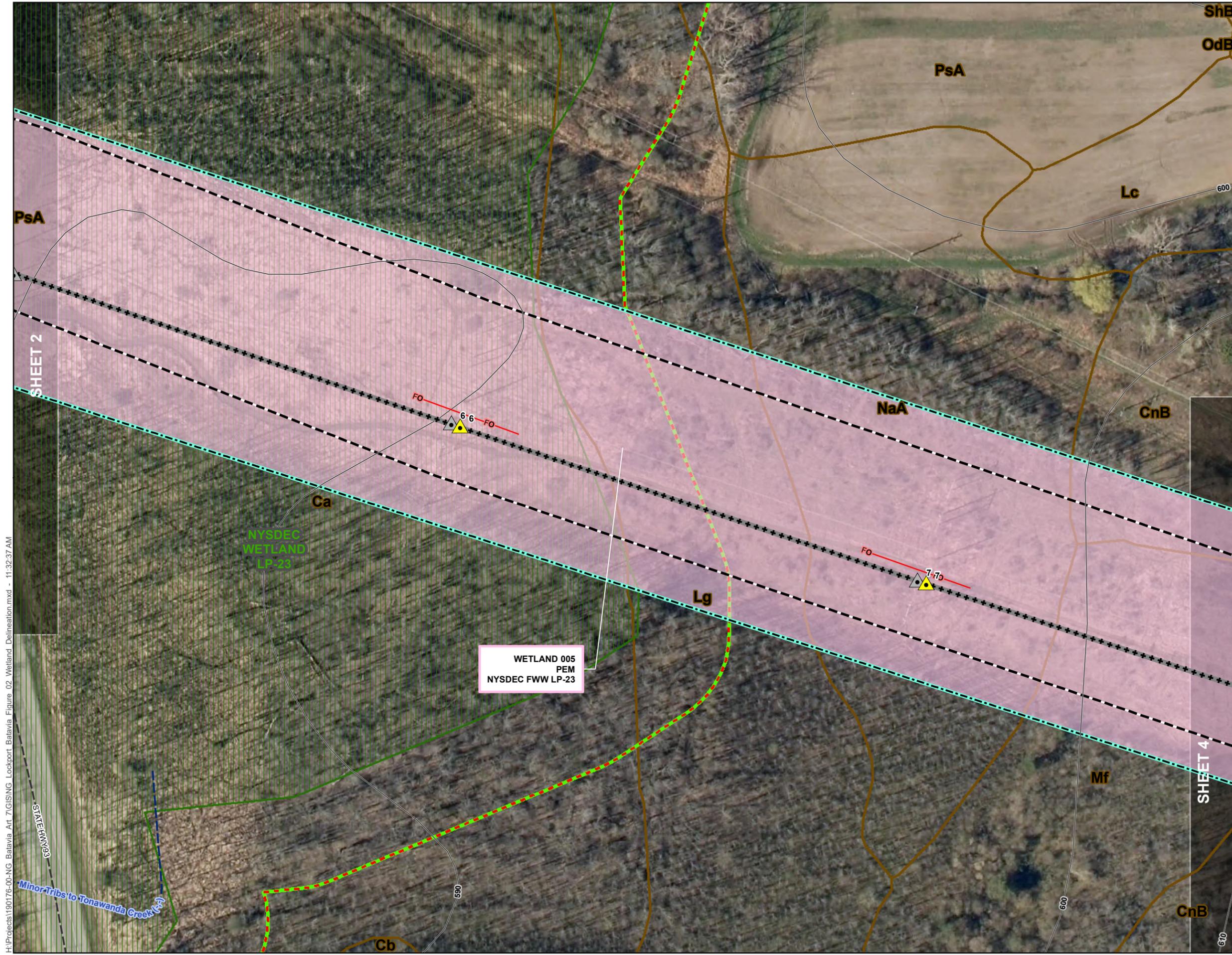
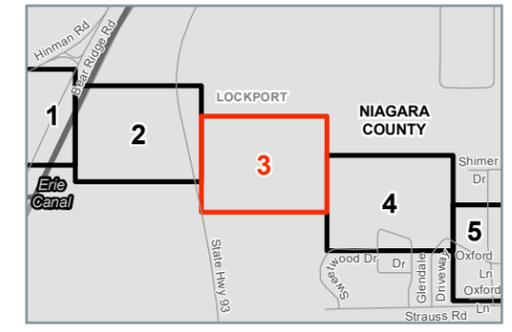
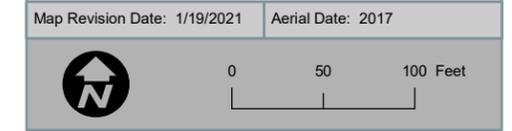
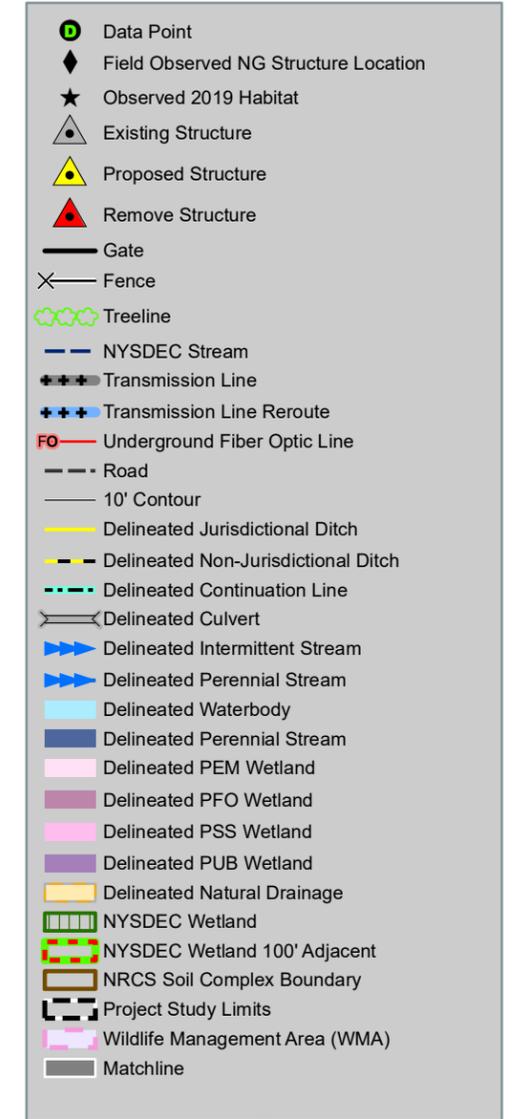


	Data Point
	Field Observed NG Structure Location
	Observed 2019 Habitat
	Existing Structure
	Proposed Structure
	Remove Structure
	Gate
	Fence
	Treeline
	NYSDEC Stream
	Transmission Line
	Transmission Line Reroute
	Underground Fiber Optic Line
	Road
	10' Contour
	Delineated Jurisdictional Ditch
	Delineated Non-Jurisdictional Ditch
	Delineated Continuation Line
	Delineated Culvert
	Delineated Intermittent Stream
	Delineated Perennial Stream
	Delineated Waterbody
	Delineated Perennial Stream
	Delineated PEM Wetland
	Delineated PFO Wetland
	Delineated PSS Wetland
	Delineated PUB Wetland
	Delineated Natural Drainage
	NYSDEC Wetland
	NYSDEC Wetland 100' Adjacent
	NRCS Soil Complex Boundary
	Project Study Limits
	Wildlife Management Area (WMA)
	Matchline

Map Revision Date: 1/19/2021    Aerial Date: 2017



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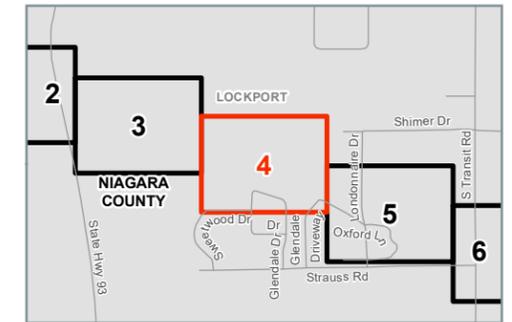
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**LOCKPORT-BATAVIA #112 REBUILD PROJECT**  
**FIGURE 2: WETLAND AND WATERCOURSE**  
**DELINEATION MAP**

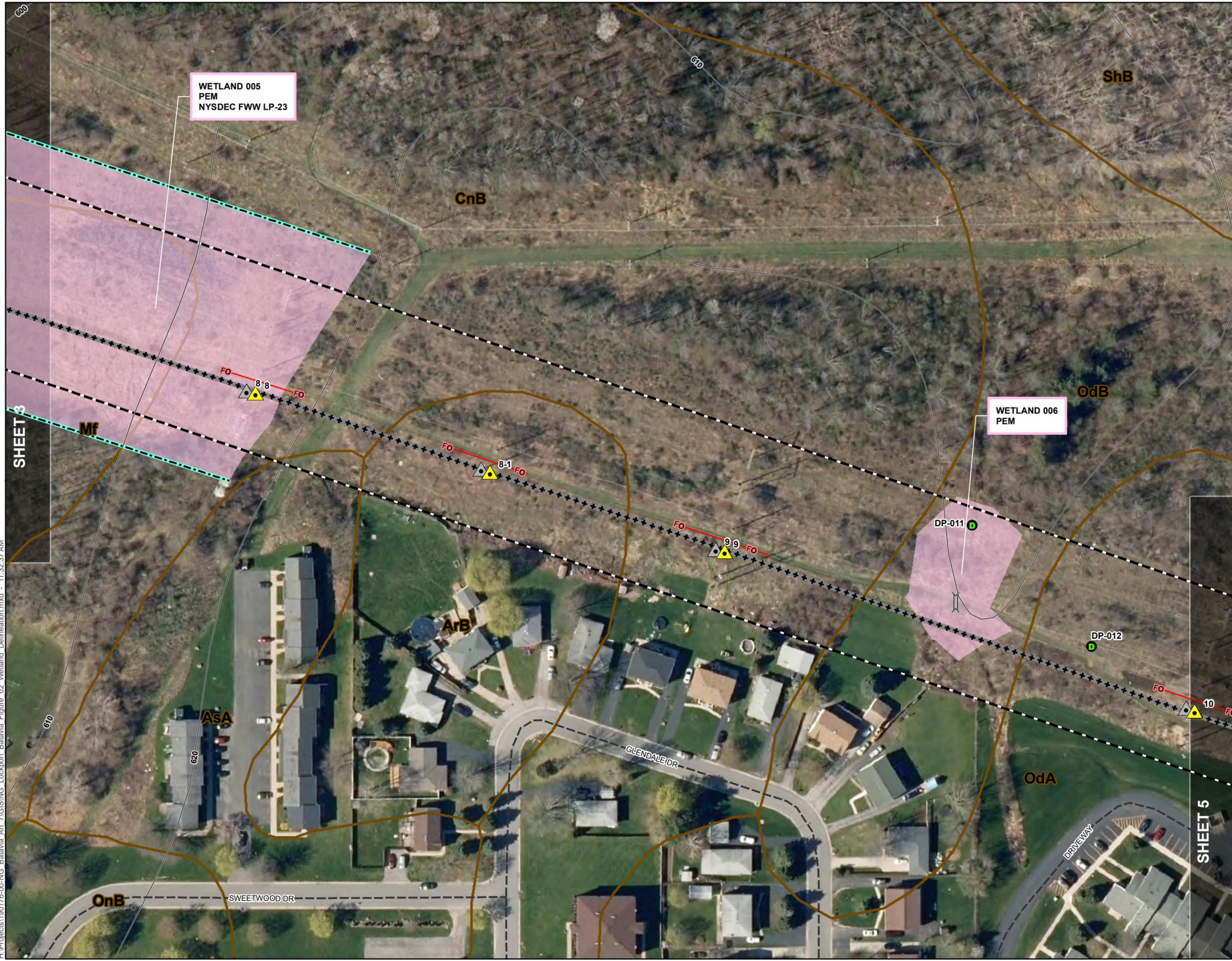
- Data Point
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- △ Existing Structure
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- Matchline

Map Revision Date: 1/19/2021    Aerial Date: 2017

0    50    100 Feet



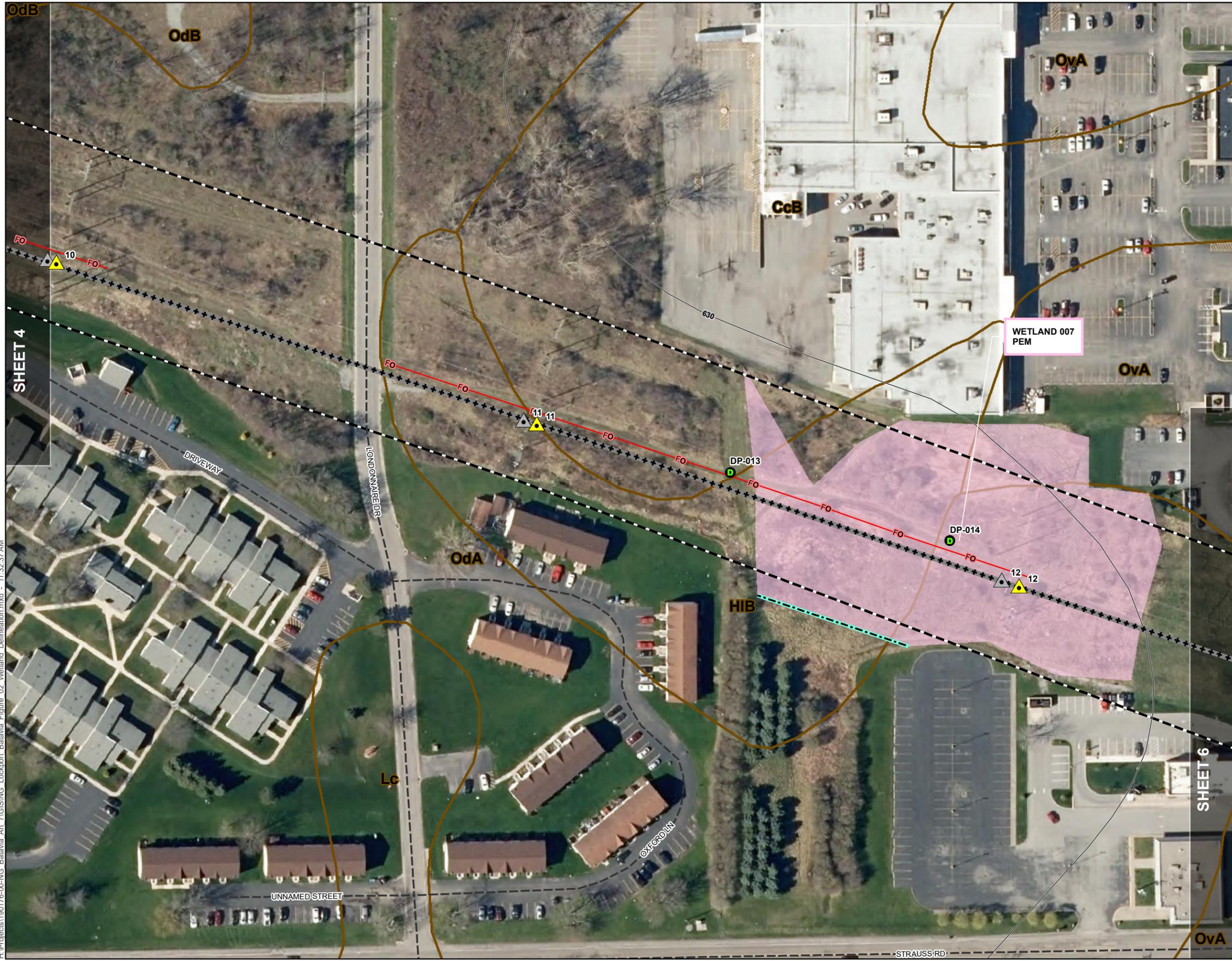
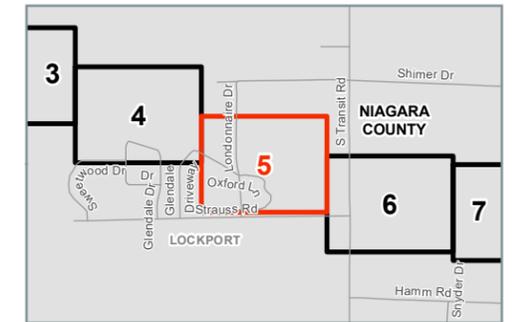
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**NATIONAL GRID**  
**LOCKPORT-BATAVIA #112 REBUILD PROJECT**  
**FIGURE 2: WETLAND AND WATERCOURSE**  
**DELINEATION MAP**

- Data Point
- ◆ Field Observed NG Structure Location
- ★ Observed 2019 Habitat
- △ Existing Structure
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- ▲ Remove Structure
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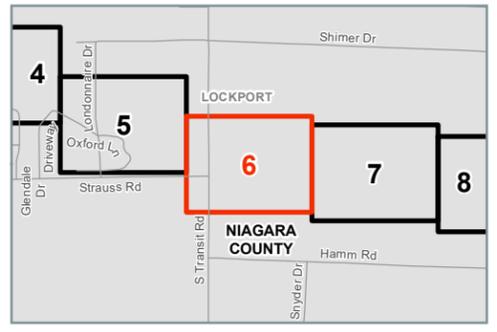
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**NATIONAL GRID**  
**LOCKPORT-BATAVIA #112 REBUILD PROJECT**  
**FIGURE 2: WETLAND AND WATERCOURSE**  
**DELINEATION MAP**



- Data Point
- ◆ Field Observed NG Structure Location
- ★ Observed 2019 Habitat
- ▲ Existing Structure
- ▲ Proposed Structure
- ▲ Remove Structure
- Gate
- X Fence
- Treeline
- NYSDEC Stream
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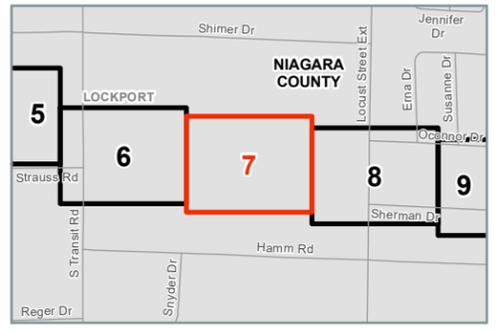
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**NATIONAL GRID  
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FIGURE 2: WETLAND AND WATERCOURSE  
DELINEATION MAP**



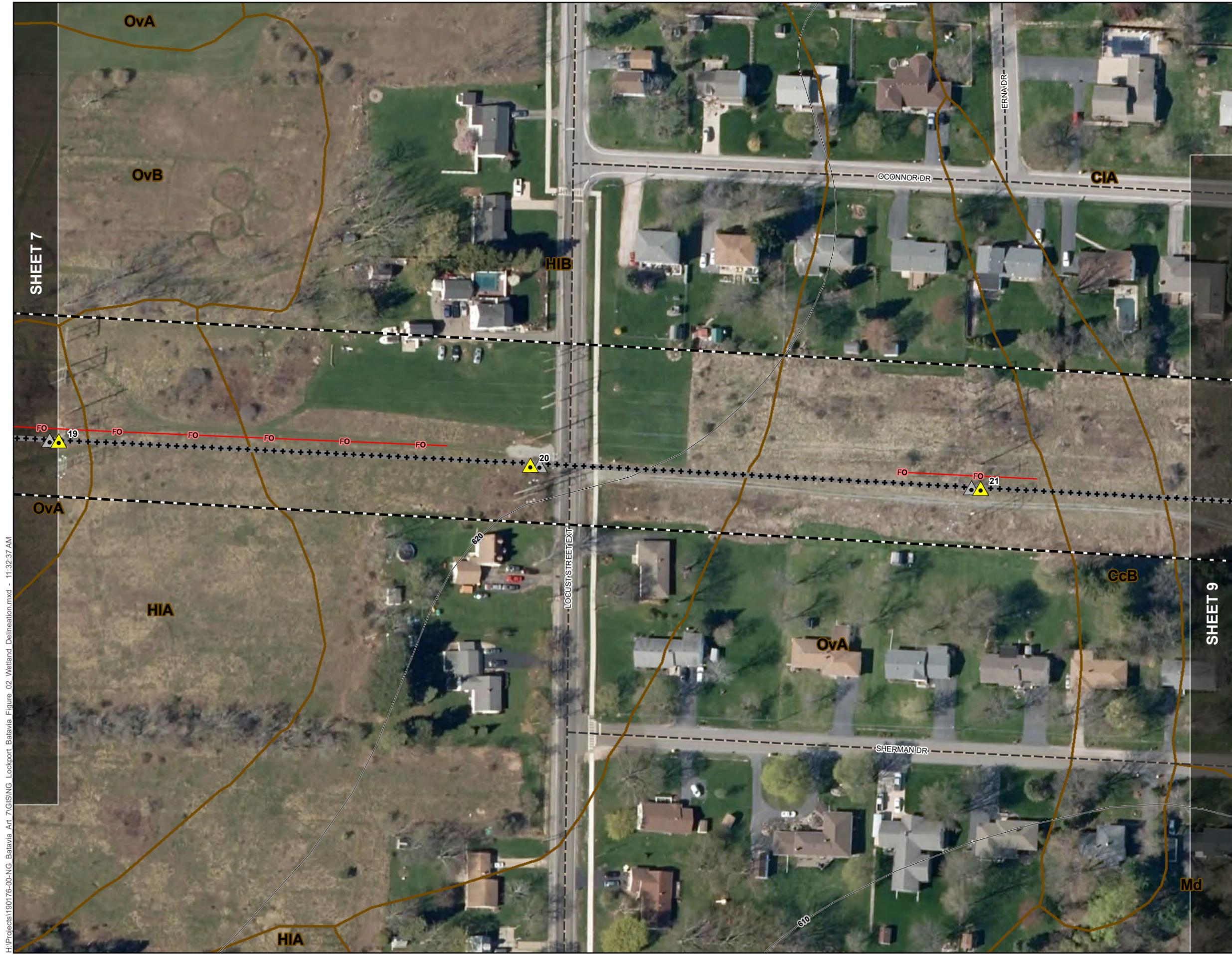
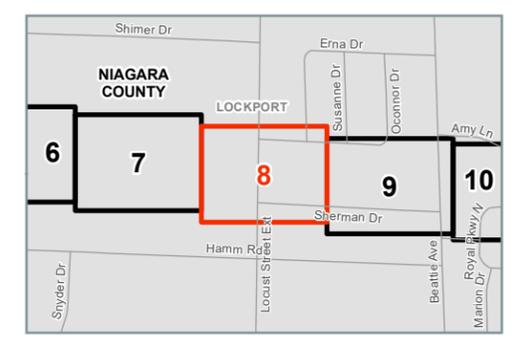
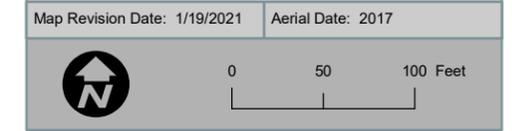
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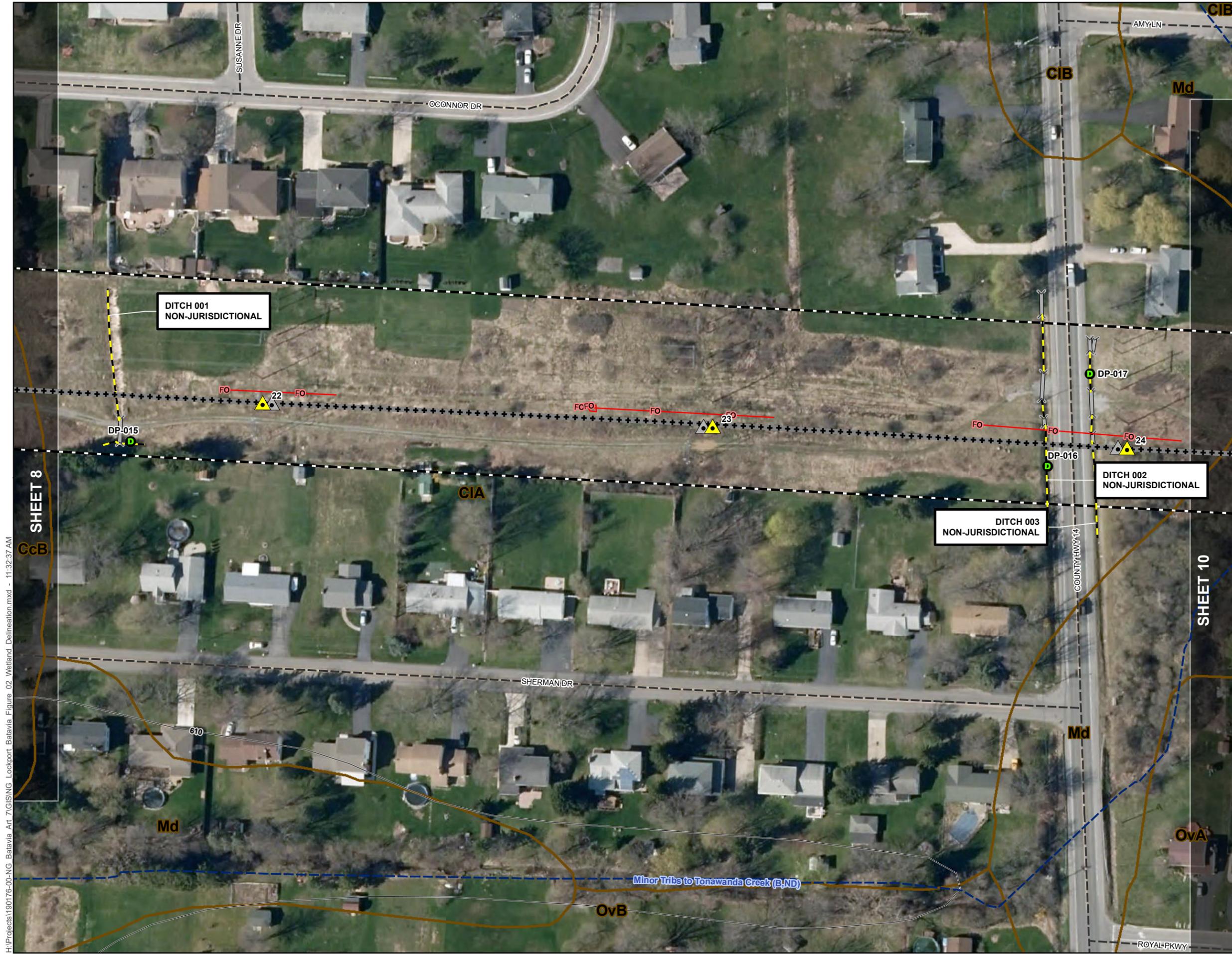
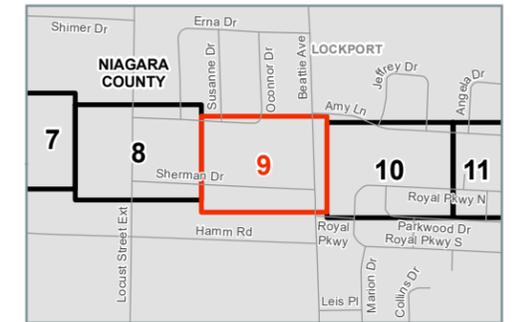
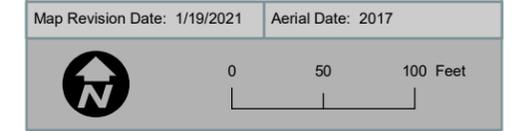
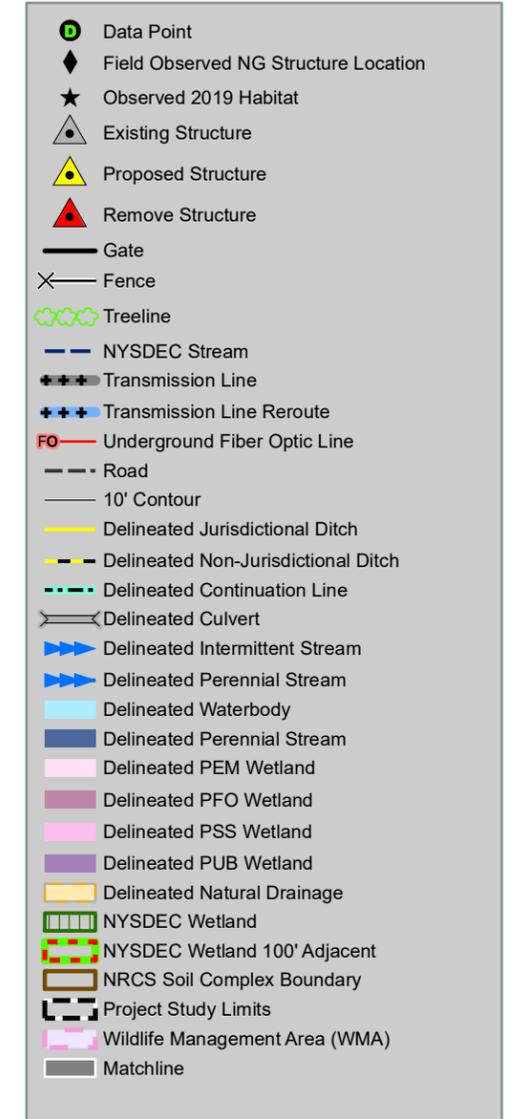
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**NATIONAL GRID  
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FIGURE 2: WETLAND AND WATERCOURSE  
DELINEATION MAP**



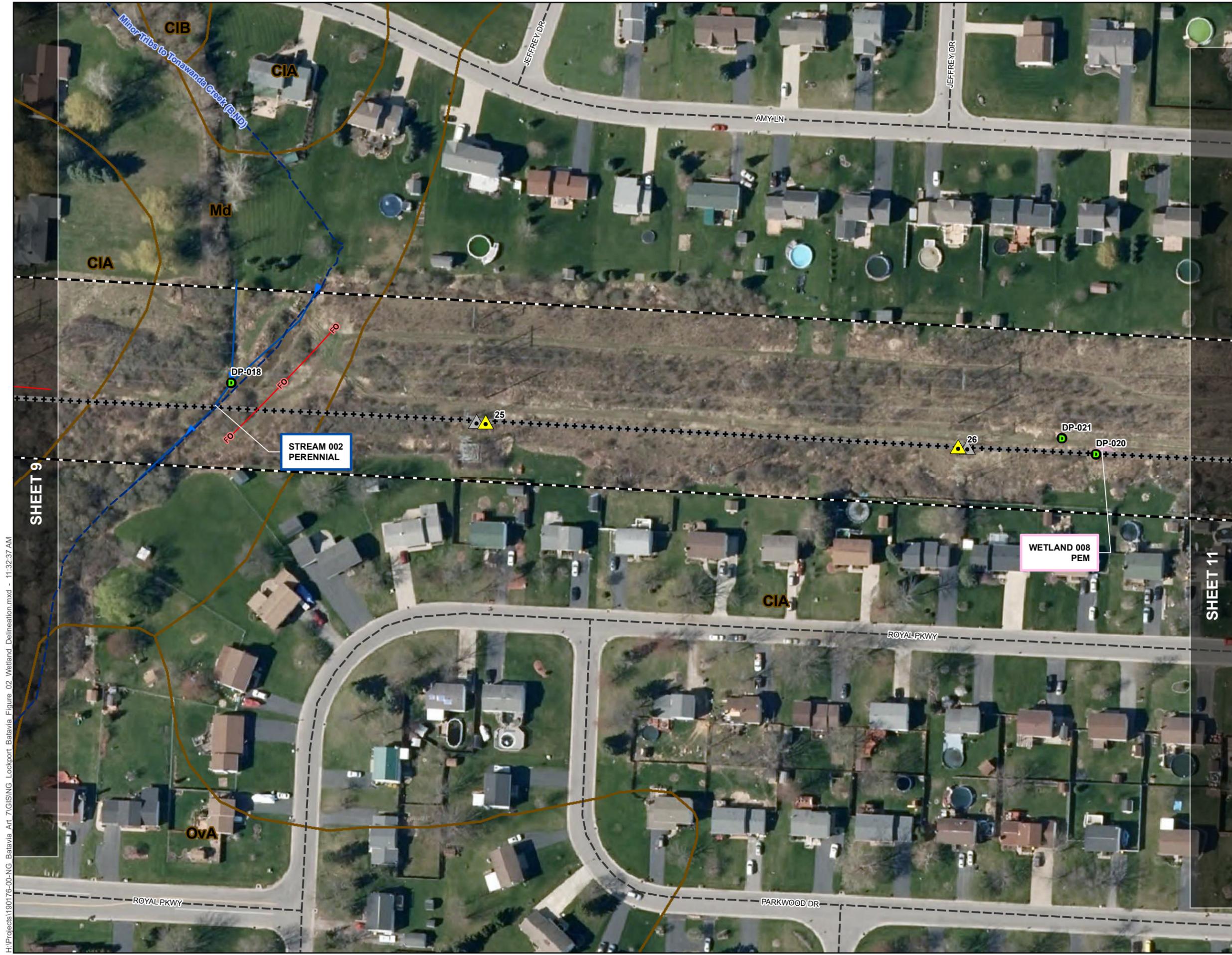
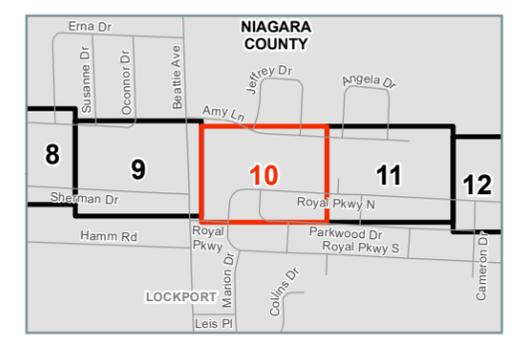
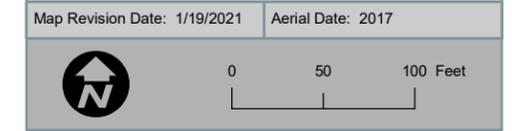
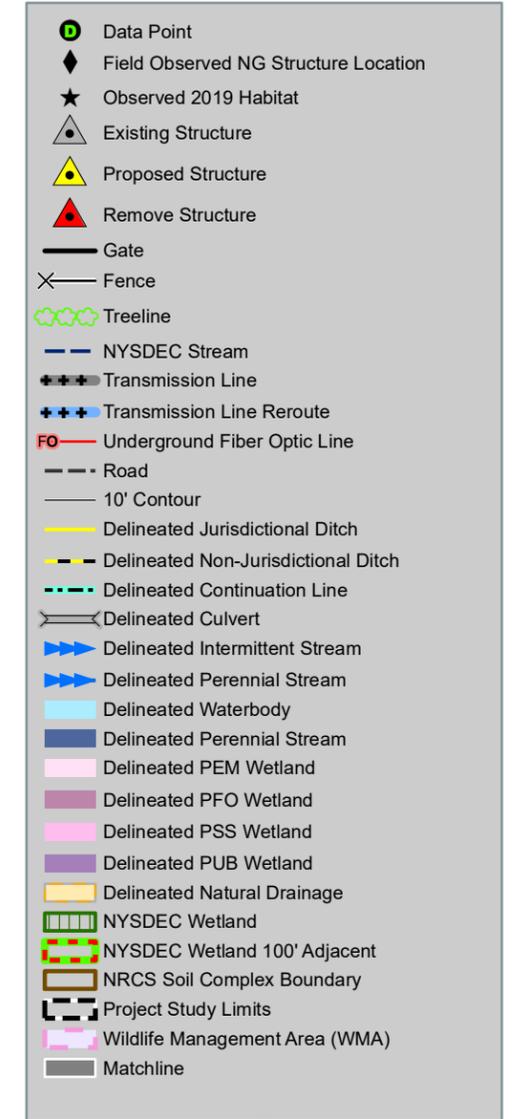
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LOCKPORT-BATAVIA #112 REBUILD PROJECT  
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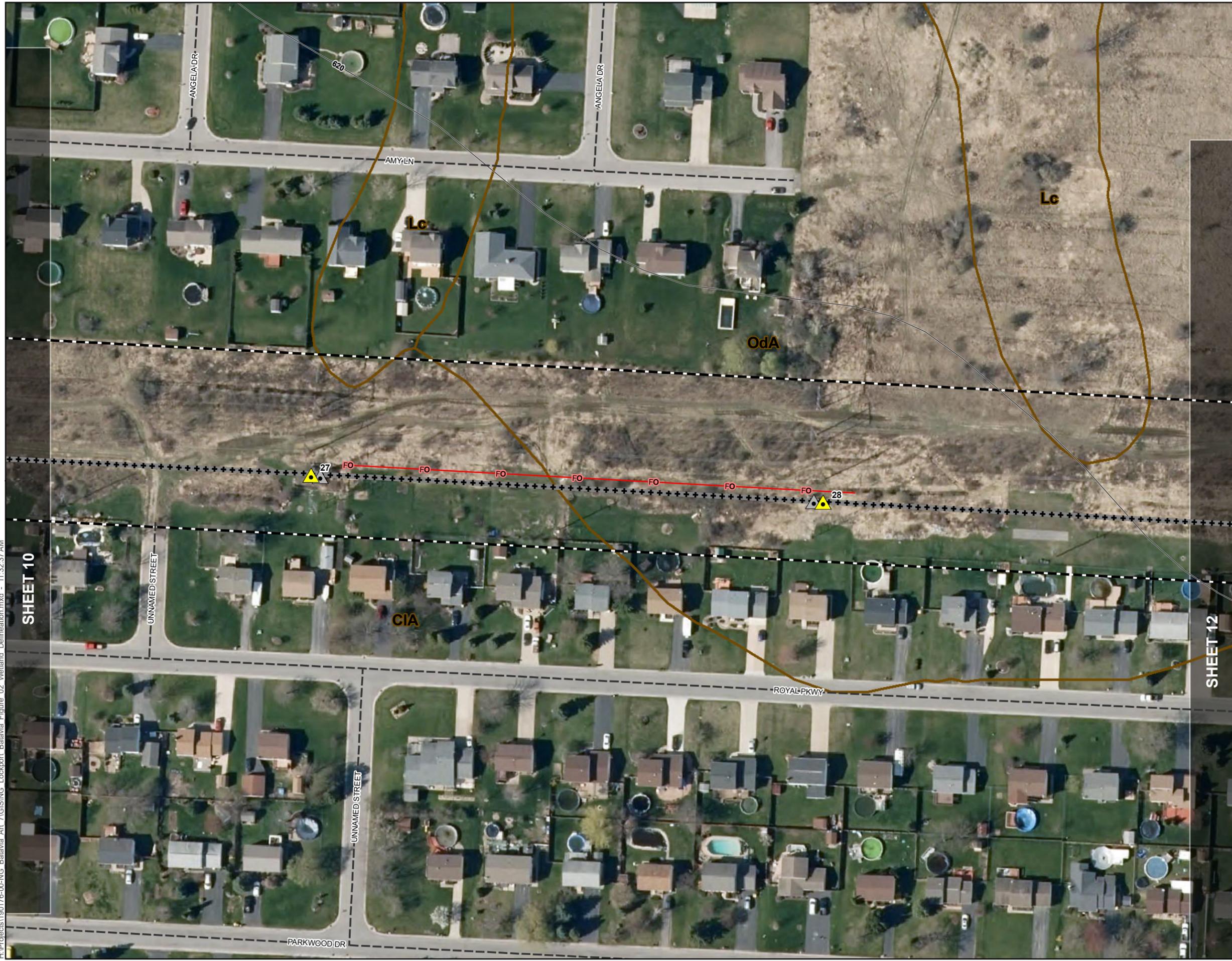
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NATIONAL GRID  
 LOCKPORT-BATAVIA #112 REBUILD PROJECT  
 FIGURE 2: WETLAND AND WATERCOURSE  
 DELINEATION MAP



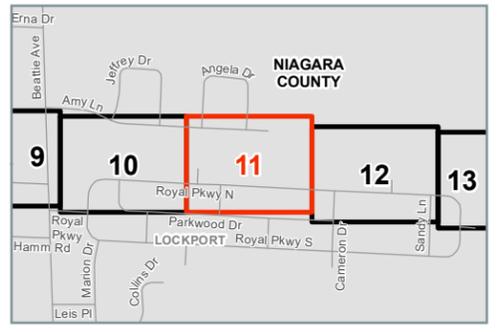
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**NATIONAL GRID  
LOCKPORT-BATAVIA #112 REBUILD PROJECT  
FIGURE 2: WETLAND AND WATERCOURSE  
DELINEATION MAP**



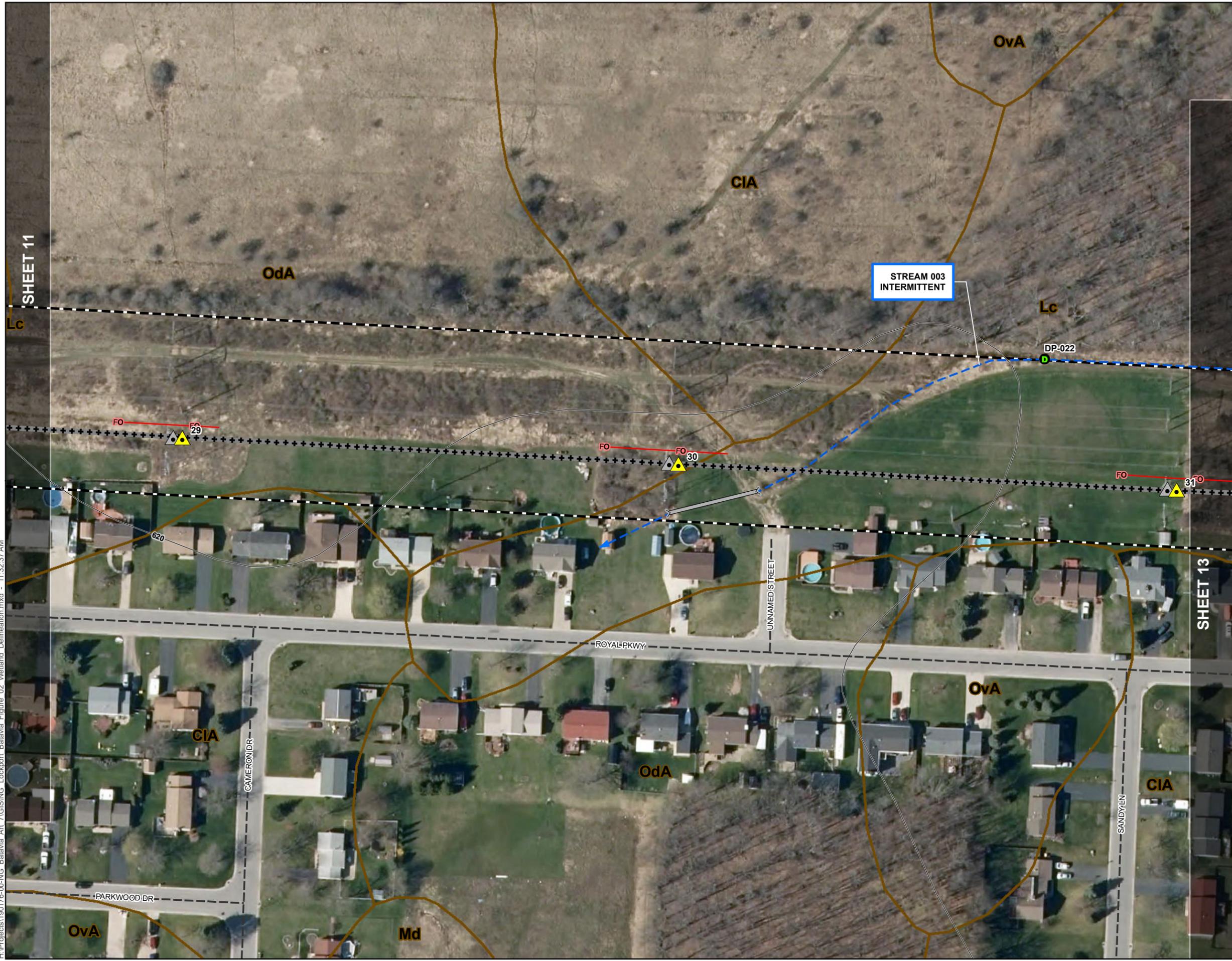
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- Observed 2019 Habitat
- Existing Structure
- Proposed Structure
- Remove Structure
- Gate
- Fence
- Treeline
- NYSDEC Stream
- Transmission Line
- Transmission Line Reroute
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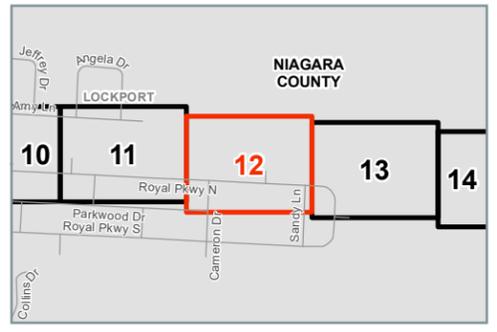
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**NATIONAL GRID  
LOCKPORT-BATAVIA #112 REBUILD PROJECT  
FIGURE 2: WETLAND AND WATERCOURSE  
DELINEATION MAP**



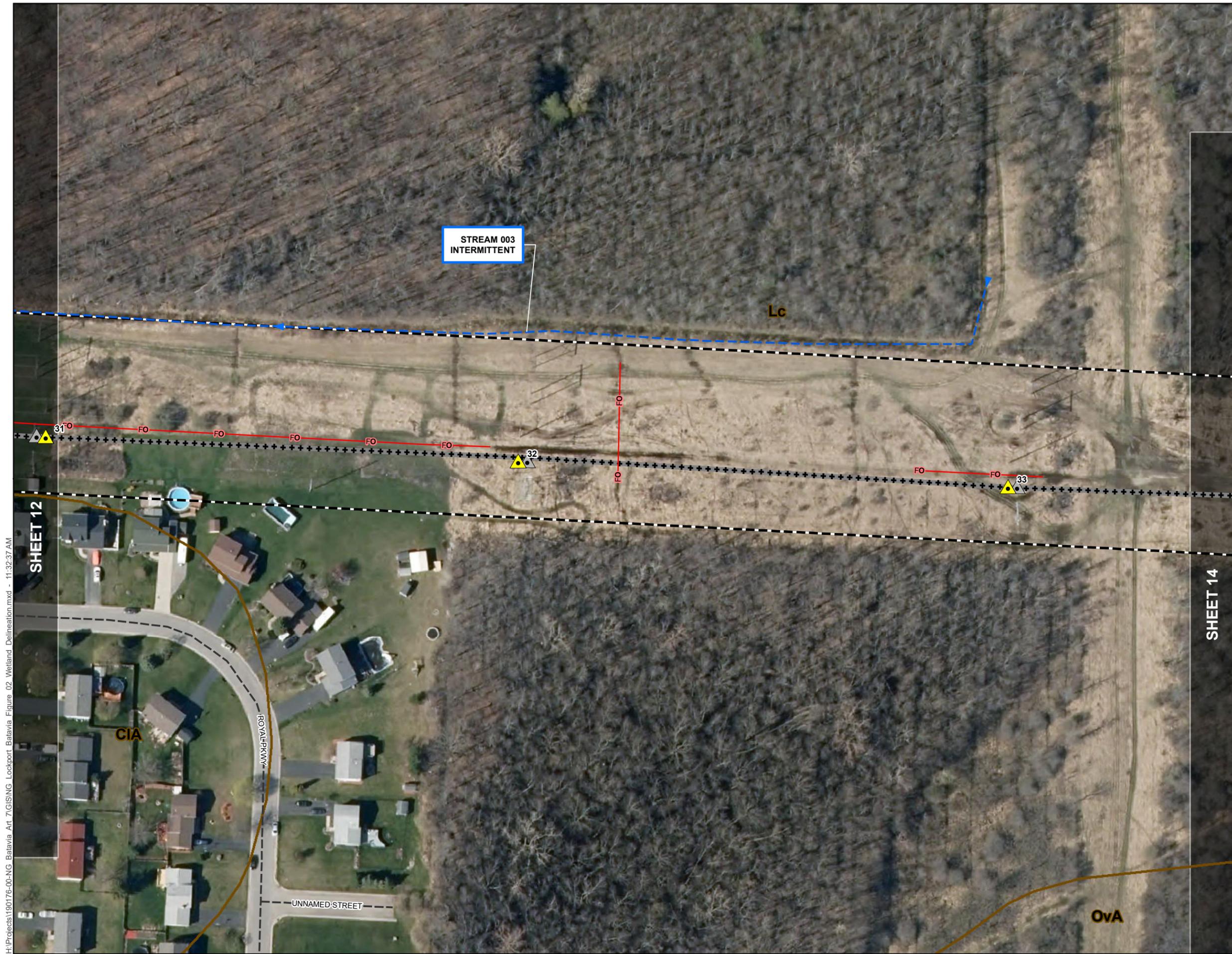
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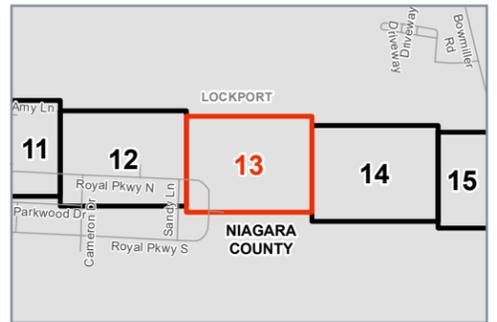
**NATIONAL GRID  
LOCKPORT-BATAVIA #112 REBUILD PROJECT  
FIGURE 2: WETLAND AND WATERCOURSE  
DELINEATION MAP**



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- NYSDEC Wetland
- NYSDEC Wetland 100' Adjacent
- NRCS Soil Complex Boundary
- Project Study Limits
- Wildlife Management Area (WMA)
- Matchline

Map Revision Date: 1/19/2021    Aerial Date: 2017

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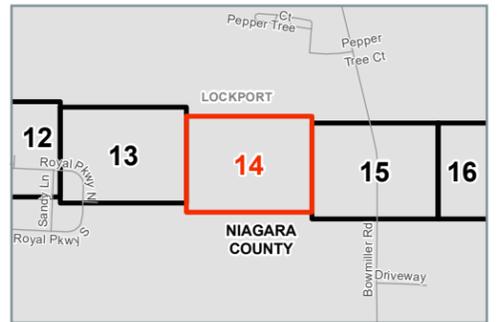
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**NATIONAL GRID  
LOCKPORT-BATAVIA #112 REBUILD PROJECT  
FIGURE 2: WETLAND AND WATERCOURSE  
DELINEATION MAP**



- Data Point
- Field Observed NG Structure Location
- Observed 2019 Habitat
- Existing Structure
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- Remove Structure
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- Fence
- Treeline
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- Transmission Line
- Transmission Line Reroute
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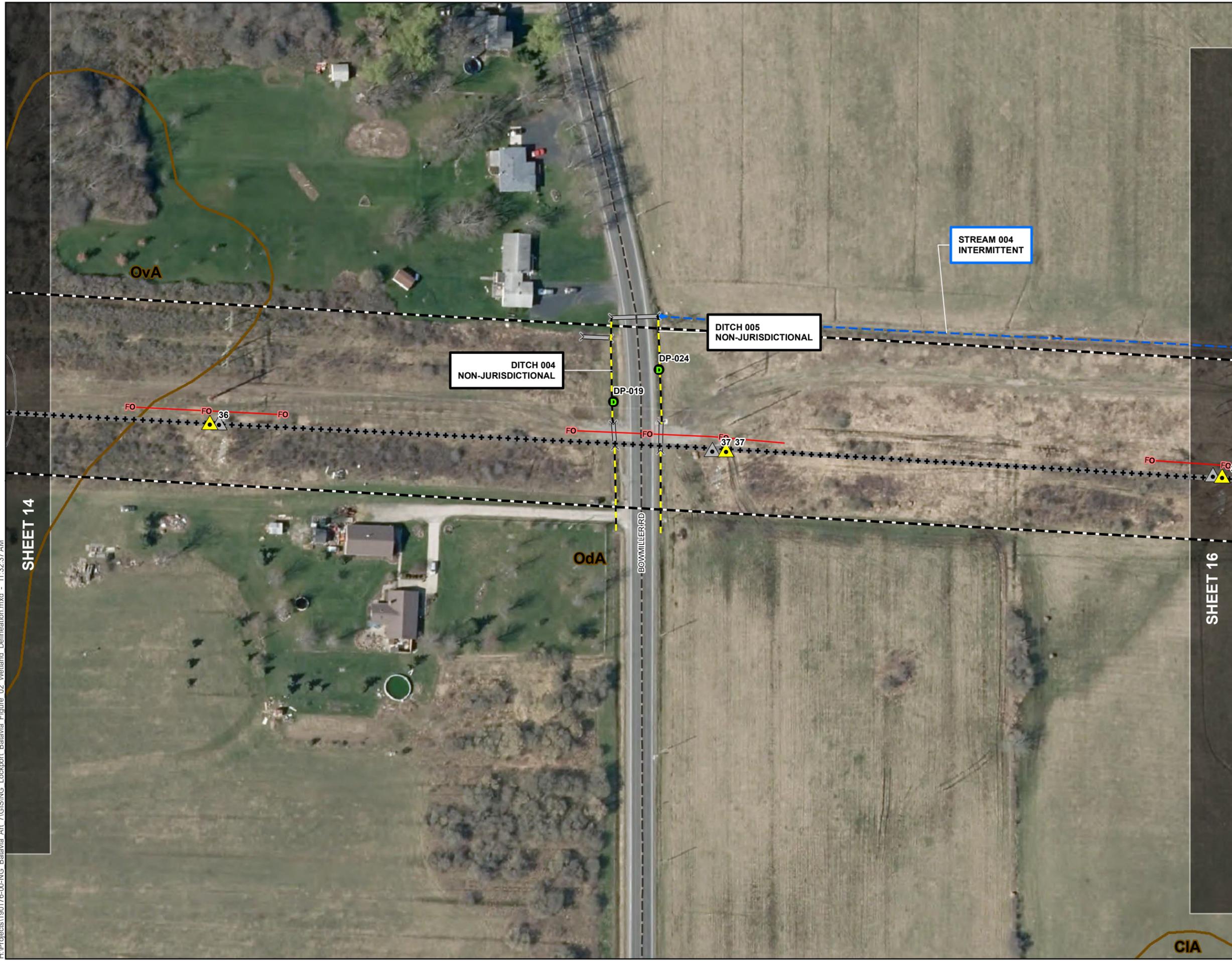


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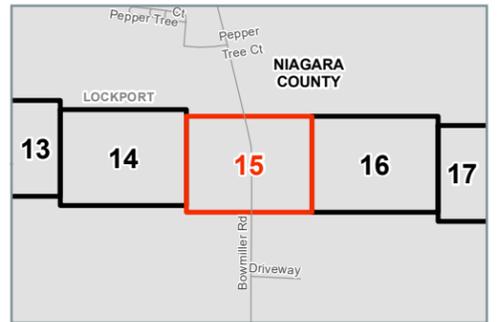
SHEET 15

**NATIONAL GRID  
LOCKPORT-BATAVIA #112 REBUILD PROJECT  
FIGURE 2: WETLAND AND WATERCOURSE  
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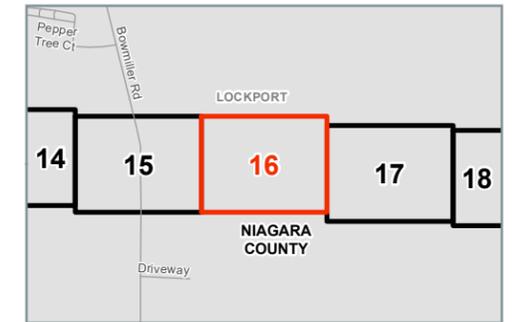


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NATIONAL GRID  
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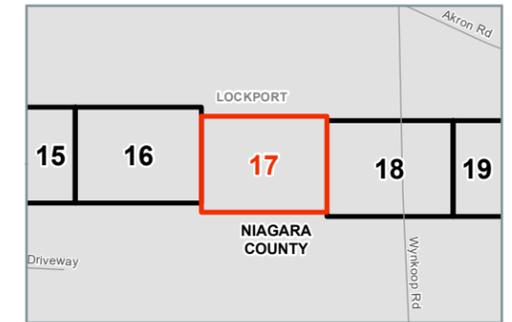
**NATIONAL GRID  
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FIGURE 2: WETLAND AND WATERCOURSE  
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**NATIONAL GRID  
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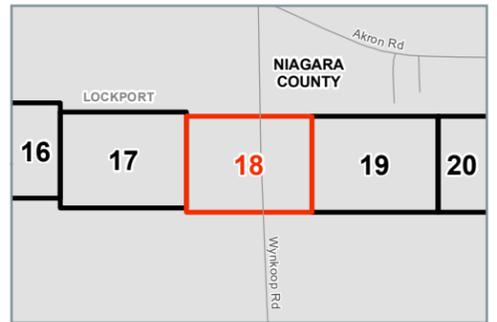


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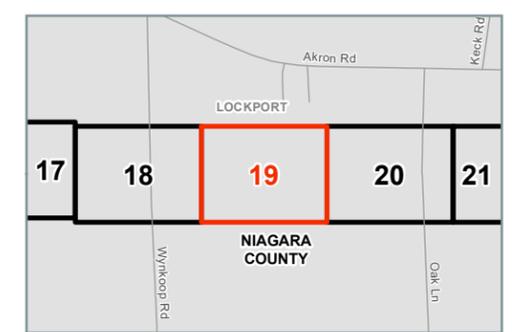
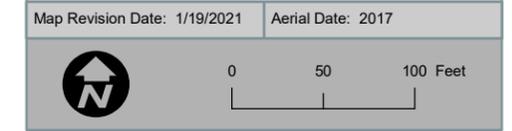
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**NATIONAL GRID  
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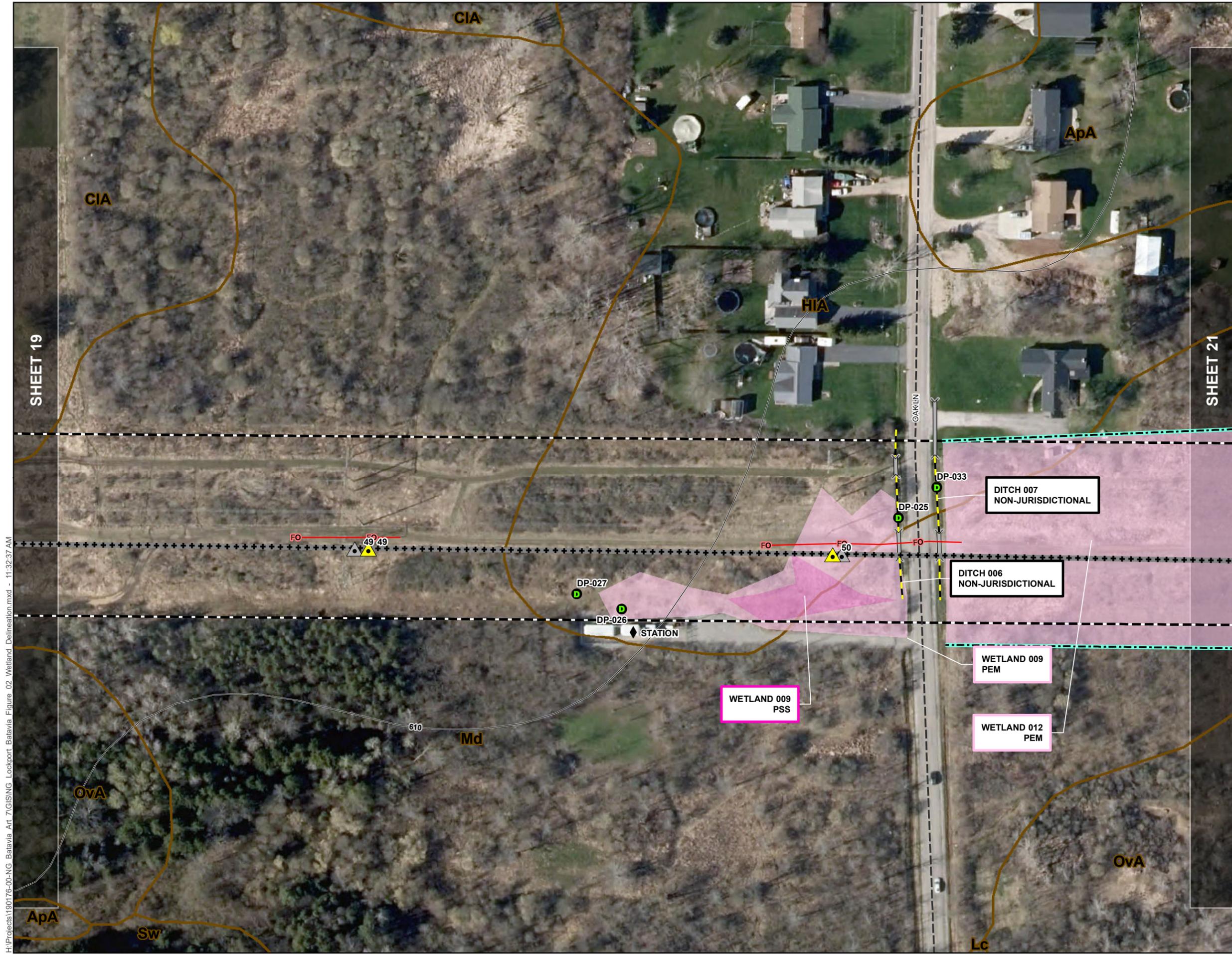
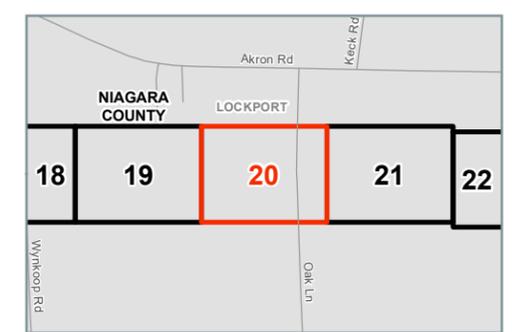
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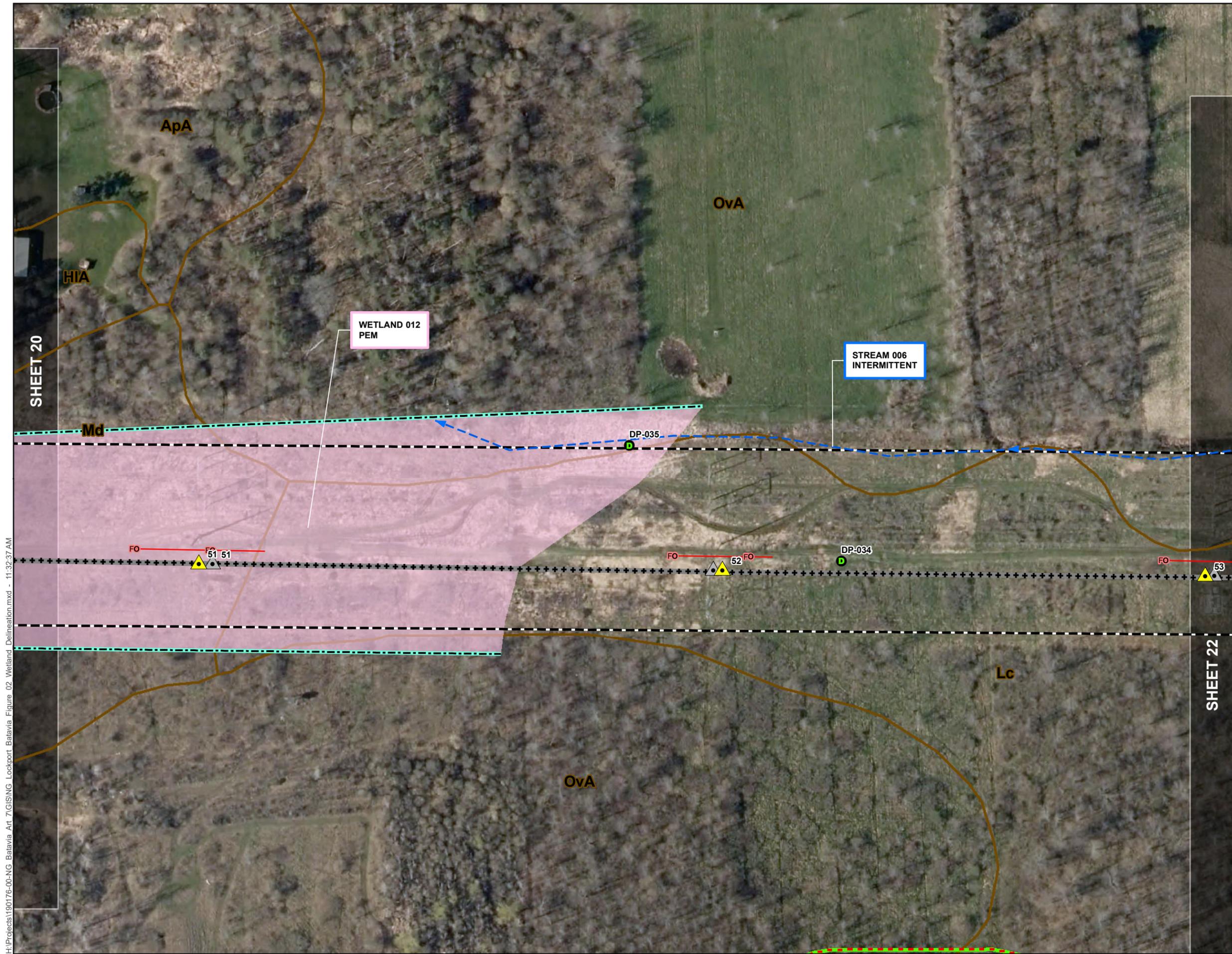
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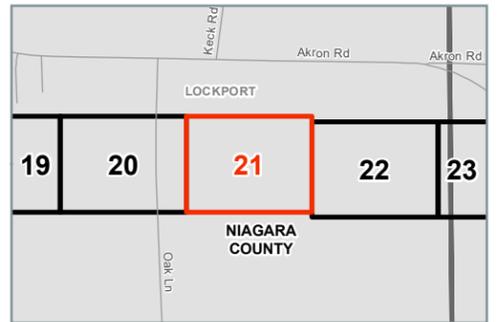
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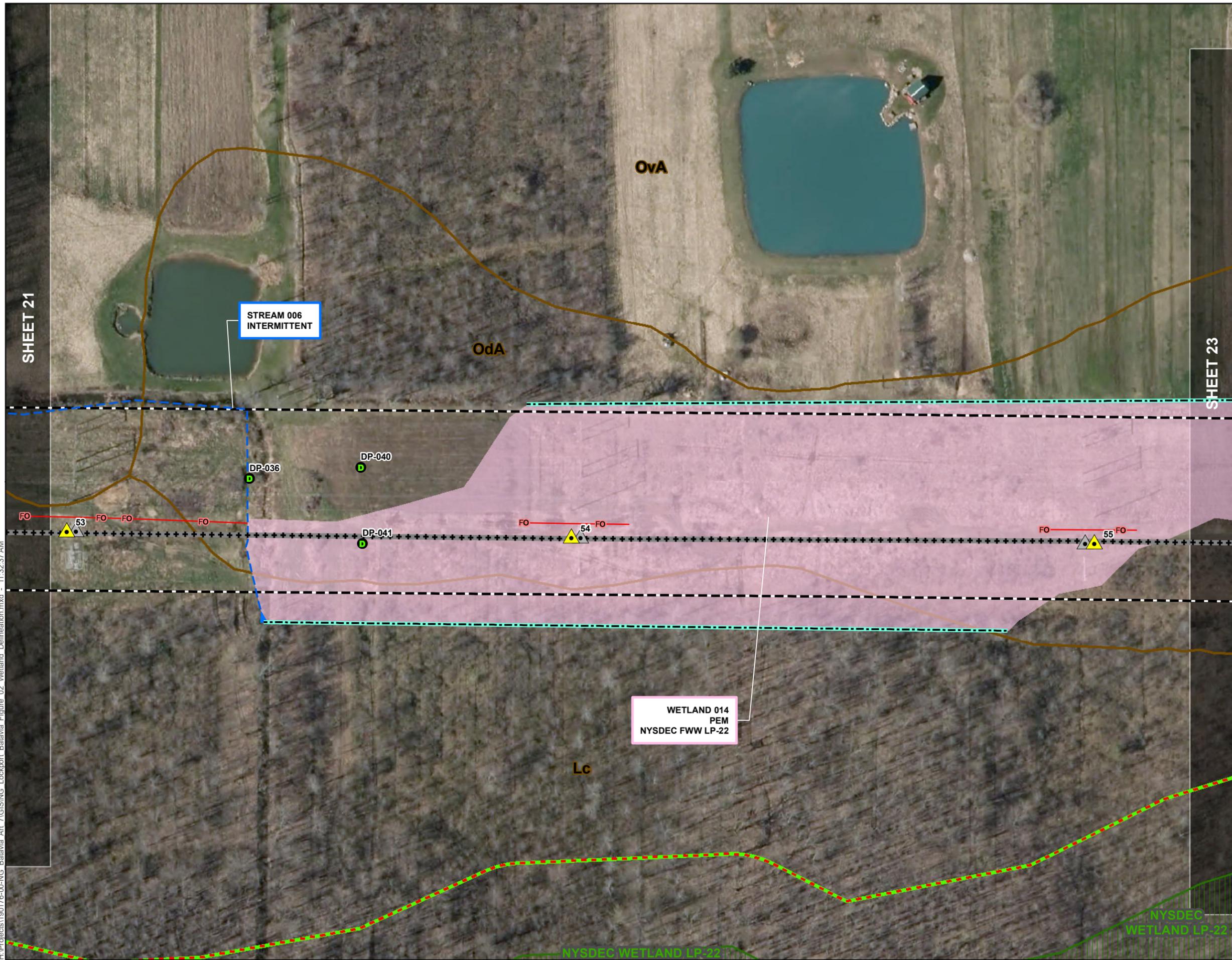
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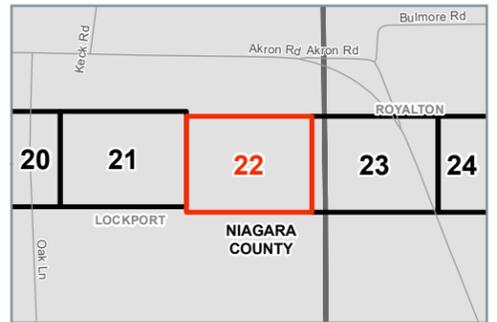
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## **TABLES**

**Table 1  
Wetland Delineation Summary**

Wetland ID	Map Sheet #	Associated Data Point #	Associated Photo #	Cowardin Classification	Presumed Federal / State Jurisdiction <sup>2</sup>	Coordinates		Wetland Area within Study Limits		Soils	
						Latitude	Longitude	Square Feet	Acres	Soil Symbol	Hydric Component Percentage
001	1	DP-001 & DP-002	1 thru 4	PEM	Federal	43.147959	-78.717049	231	0.01	Cu	5
								4,338	0.10	HmA	0
								12,723	0.29	OwA	5
002	1	DP-003 & DP-004	5 thru 8	PEM	Federal	43.147508	-78.718378	13,653	0.31	HmA	0
								9,968	0.23	OwA	5
003	2	DP-006 & DP-007	9 thru 12	PEM	Federal	43.147437	-78.715828	8,937	0.21	Cu	5
004	2	DP-008 & DP-009	13 thru 16	PEM	Federal	43.147641	-78.714981	13,177	0.30	Cb	92
								454	0.01	Cu	5
005	2	DP-009 & DP-010	15 thru 18	PEM	Federal & State (NYSDEC LP-33)	43.147011	-78.711786	135,235	3.10	Ca	86
								84,904	1.95	Cb	92
								31,051	0.71	CnB	4
								48,509	1.11	Lg	92
								54,247	1.25	Mf	57
								61,790	1.42	NaA	4
006	4	DP-011 & DP-012	19 thru 22	PEM	---	43.144911	-78.703301	55,303	1.27	PsA	0
								14,369	0.33	OdB	4
007	5	DP-013 & DP-014	23 thru 26	PEM	---	43.144030	-78.699466	2,100	0.05	CcB	0
								33,165	0.76	HIB	0
								42,712	0.98	OdA	5
008	10	DP-020 & DP-021	42 thru 45	PEM	---	43.141885	-78.674831	1,641	0.04	OvA	4
								214	0.00	CIA	8
009	20	DP-026 & DP-027	53 thru 61	PEM	---	43.140342	-78.629717	13,358	0.31	HIA	0
								5,098	0.12	Md	82
				PSS		43.140252	-78.629628	3,506	0.08	HIA	0
010	19	DP-029 & DP-030	65 thru 68	PEM	---	43.140324	-78.635340	1,515	0.03	Md	82
								8,488	0.19	CIA	8
011	18	DP-031 & DP-032	69 thru 72	PEM	Federal	43.140451	-78.638277	31,006	0.71	CIA	8
012	20 & 21	DP-034 & DP-035	76 thru 79	PEM	Federal	43.140640	-78.628782	6,472	0.15	HIA	0
								56,035	1.29	Lc	95
								90,184	2.07	Md	82
								12,157	0.28	OvA	4
013	23	DP-038 & DP-039	86 thru 89	PEM	---	43.140350	-78.616630	92,819	2.13	OdA	5
								26,101	0.60	OvA	4
014	22 & 23	DP-040 & DP-041	90 thru 93	PEM	Federal	43.140153	-78.621078	11,907	0.27	Lc	95
								165,811	3.81	OdA	5
015	23 & 24	DP-044 & DP-045	100 thru 103	PEM	---	43.140268	-78.610288	6,463	0.15	OdA	5
								146,229	3.36	OvA	4

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						Latitude	Longitude	Square Feet	Acres	Soil Symbol	Hydric Component Percentage			
016	25, 26, & 27	DP-046, DP-047, DP-048	104 thru 109	PEM	Federal & State (NYSDEC GA-22)	43.140223	-78.606831	269,256	6.18	Lc	95			
				PFO				11,071	0.25	OdA	5			
				PSS		43.139959	-78.601419	676	0.02	Lc	95			
								233	0.01	OdA	5			
017	27	DP-051 & DP-052	113 thru 116	PEM	Federal & State (NYSDEC GA-21)	43.140387	-78.607865	87,681	2.01	Lc	95			
								2,763	0.06	OdA	5			
018	27 thru 32	DP-054 & DP-055	120 thru 123	PEM	Federal & State (NYSDEC GA-21)	43.140196	-78.597451	127,355	2.92	OdA	5			
								4,827	0.11	OvA	4			
019	36	DP-061 & DP-062	139 thru 142	PEM	Federal	43.140361	-78.591266	29,568	0.68	CIA	8			
								292,467	6.71	Lc	95			
								55,135	1.27	NaA	4			
								712,834	16.36	OdA	5			
020	36	DP-064 & DP-065	146 thru 149	PEM	Federal & State (NYSDEC GA-6)	43.139899	-78.557668	874	0.02	ApA	4			
								11,600	0.27	Lc	95			
								57,091	1.31	OdA	5			
021	41 & 42	DP-068 & DP-069	156 thru 159	PEM	---	43.139729	-78.553800	158,890	3.65	Lc	95			
								88,781	2.04	OdA	5			
022	86 & 87	DP-071 & DP-072	163 thru 166	PEM	State (John White WMA)	43.141932	-78.530627	13,612	0.31	OdA	5			
								62,009	1.42	OdA	5			
023	59 thru 77	DP-073, DP-074, DP-085, DP-086, DP-098 thru DP-105	167 thru 170 & 174 thru 177 & 225 thru 249	PEM	Federal & State (NYSDEC AK-2, AK-3, AK-4, & Tonawanda WMA)	43.076192	-78.382543	30,177	0.69	SeB	0			
								7,885	0.18	W	0			
								PUB	43.075732	-78.381871	666	0.02	OdA	5
											23,558	0.54	W	0
								6,805	0.16	ApA	4			
								69,848	1.60	ArB	0			
								5,503	0.13	CaA	95			
								1,002,090	23.00	CbA	95			
								59,027	1.36	EIB	0			
								115,575	2.65	Fo	96			
								58	0.001	FpA	10			
								62,972	1.45	GnB	0			
								193	0.00	HIB	0			
								170,288	3.91	Ld	92			
582,089	13.36	Ma	93											
18	0.0004	MnA	5											
278,272	6.39	Pd	100											
7,259	0.17	PsB	0											
17,185	0.39	RoA	0											
172,109	3.95	W	0											
48,782	1.12	Wy	90											

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						Latitude	Longitude	Square Feet	Acres	Soil Symbol	Hydric Component Percentage
23 (cont.)	59 thru 77	DP-073, DP-074, DP-085, DP-086, DP-098 thru DP-105	167 thru 170 & 174 thru 177 & 225 thru 249	PFO	Federal & State (NYSDEC AK-2, AK-3, AK-4 & Tonawanda WMA)	43.118017	-78.444531	9,063	0.21	ArB	0
								95	0.002	CbA	95
								10,057	0.23	Ld	92
				PSS		43.124194	-78.462039	1,155	0.03	CaA	95
								23,618	0.54	CbA	95
								1,980	0.05	RoA	0
								17,783	0.41	Wy	90
024	42 & 43	DP-076 & DP-077	178 thru 181	PEM	Federal	43.142470	-78.525944	26,474	0.61	Lc	95
								57,870	1.33	OdA	5
025	44	DP-080 & DP-081	188 thru 191	PEM	Federal	43.143351	-78.519898	43,019	0.99	Ma	93
								11,806	0.27	RbA	8
026	46	DP-082 & DP-083	192 thru 195	PEM	---	43.145012	-78.508843	102,129	2.34	OdA	5
								745	0.02	OvA	4
								7,354	0.17	Lc	95
027	54, 55, & 56	DP-087, DP-088, DP-089	199 thru 204	PEM	Federal & State (NYSDEC MD-1 Tonawanda WMA)	43.132951	-78.475908	250,180	5.74	Ma	93
								17,118	0.39	OdA	5
				PFO		43.131006	-78.472454	50,527	1.16	Ma	93
								44,784	1.03	OdA	5
028	80 & 81	DP-090 & DP-091	205 thru 208	PSS	Federal	43.097575	-78.417185	61,572	1.41	CaA	95
<b>Total</b>								<b>6,690,281</b>	<b>153.59</b>		

**Notes:**

1. A field delineation was performed by Fisher Associates between August 6 and October 2, 2019; June 16, 2020; and November 12 and 13, 2020
2. Federal / State Jurisdiction and Connectivity classifications provided represent the professional opinion of Fisher Associates and the interpretation of the U.S. Navigable Waters Protection Rule under the Clean Water Act and NYS ECL Article 24; Freshwater Wetlands Program. For approval of these classifications, a request for Jurisdictional Determination should be made to the US Army Corps of Engineers and/or the NYS Department of Environmental Conservation.

**Table 2  
Stream Delineation Summary**

Stream ID	Map Sheet #	Associated Data Point #	Associated Photo Log #	Stream Name	Tributary of	Flow Regime	Flow Direction	Presumed Federal / State Jurisdiction <sup>2</sup>	NYSDEC Classification <sup>3,5,6,7</sup>	NYSDEC Standard Designation <sup>4,6</sup>	Latitude	Longitude	Stream Width (Average OHWM, Ft.)	Stream Width (Average Top of Bank, Ft.)	Stream Reach Length (Within Study Limits, Linear Ft.)
001*	2 thru 3	DP-005	N/A	NYS Barge Canal (Erie Canal) (Portion 1)	Lake Erie	Perennial	East	Federal & State*	C	ND	43.147687	-78.716270	84	84	418
002	10	DP-018	36, 37, 38	Unnamed Tributary to Tonawanda Creek	NYS Barge Canal (Erie Canal)	Perennial	South	Federal & State	B	ND	43.142075	-78.678417	20	20	340
003	12	DP-022	46, 47, 48	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	West	Federal	D	ND	43.141585	-78.666715	2	3	300
004	16	DP-023	49, 50, 51	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	East	Federal	D	ND	43.140759	-78.649781	5	9	304
005	18 thru 19	DP-028	62, 63, 64	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	West	Federal	D	ND	43.140579	-78.638010	4	6	1,240
006	22	DP-036	80, 81, 82	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	North	Federal	D	ND	43.140302	-78.622527	4	6	197
007	29	DP-056	124, 125, 126	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	North	Federal	C	ND	43.140041	-78.588483	4	10	296
008	36	DP-063	143, 144, 145	Unnamed Tributary to Mud Creek	Tonawanda Creek	Intermittent	South	Federal	C	ND	43.139888	-78.554292	3	6	155
009**	62	DP-084	196, 197, 198	Unnamed Tributary to Mud Creek	Tonawanda Creek	Perennial	West	Federal & State**	C	ND	43.118740	-78.452938	10	15	117
010	54	DP-094	215, 216, 217	Mud Creek and Tributaries	Tonawanda Creek	Perennial	East	Federal	C	ND	43.136002	-78.480426	20	25	208
														<b>Total:</b>	<b>3,575</b>

**Notes:**

- A field delineation was performed by Fisher Associates between August 6 and October 2, 2019; June 16, 2020; and November 12 and 13, 2020
  - In accordance with the Navigable Waters Protection Rule, streams/tributaries that are perennial and/or intermittent and contribute surface flow to WOTUS are federally jurisdictional by the EPA and USACE (see Section 3.0 for more information).
  - NYSDEC Classification Designations:  
 AA or A: waters used as a source of drinking water  
 B: waters with best usage for swimming and other contact recreation, but not for drinking water  
 C: waters supporting fisheries and suitable for non-contact activities  
 D: other waters, the lowest classification standard
  - NYSDEC Standard Designations:  
 ND: no assigned designation  
 T: may support a trout population  
 TS: may support trout spawning
  - Waters with classifications of A, B, and C may, but will not always have an associated Standard Designation relative to trout use.
  - Streams with a classification of AA, A, B, or with a classification of C with a standard of "T" or "TS" are referred to a "Protected Streams" and are subject to the stream protection provisions of the New York State Protection of Waters regulations.
  - Streams that do not appear on the NYSDEC mapping are assigned to Class D, with the exception of any "continuous flowing natural stream" which is assigned the same classification as the water to which it is a tributary. Due to errors in the available electronic mapping, Fisher recommends coordination with NYSDEC to verify stream designations of any streams that may be impacted by the Project.
- \* Stream 001 is the New York State Barge Canal also known as the Erie Canal. The New York State Canal Corporation is governing body over the canal.  
 \*\* Stream 009 is located within the Tonawanda Wildlife Management Area.

**Table 3:  
Ditch Delineation Summary**

Ditch ID	Map Sheet #	Associated Data Point #	Associated Photolog #	Flow Regime	Federal / State Jurisdiction	Latitude	Longitude	Ditch Width (Average OHWM, Ft.)	Ditch Width (Average Top of Bank, Ft.)	Ditch Reach Length (Within Project Study Limits, Linear Ft.)
001	9	DP-015	27 thru 29	Intermittent	---	43.142050	-78.683492	2	2	42
								5	5	131
002	9	DP-016	30 thru 32	Ephemeral	---	43.142004	-78.679707	2	3	160
003	9	DP-017	33 thru 35	Ephemeral	---	43.142009	-78.679512	2	3	173
004	15	DP-019	39 thru 41	Ephemeral	---	43.140827	-78.653565	3	4	168
005	15	DP-024	52 thru 54	Ephemeral	---	43.140819	-78.653383	1	4	165
006	20	DP-025	55 thru 57	Ephemeral	---	43.140523	-78.629180	1	10	107
007	20	DP-033	73 thru 75	Ephemeral	---	43.140538	-78.629017	2	5	119
008	23	DP-037	83 thru 85	Ephemeral	---	43.140140	-78.614764	2	6	159
009	23	DP-042	94 thru 96	Ephemeral	---	43.140418	-78.614718	2	6	173
010	24	DP-043	97 thru 99	Intermittent	Federal	43.140206	-78.609395	3	8	197
011	27	DP-050	110 thru 112	Ephemeral	---	43.140263	-78.596273	2	6	150
012	32	DP-053	117 thru 119	Ephemeral	---	43.140013	-78.573944	2	6	155
013	27	DP-057	127 thru 129	Ephemeral	---	43.139966	-78.596112	3	5	168
014	32	DP-058	130 thru 132	Ephemeral	---	43.140057	-78.573731	3	5	169
015	35	DP-059	133 thru 135	Ephemeral	---	43.139674	-78.561544	2	4	145
016	35	DP-060	136 thru 138	Intermittent	---	43.139692	-78.561408	3	5	141
017	40	DP-066	150 thru 152	Ephemeral	---	43.140383	-78.539286	2	3	159
018	40	DP-067	153 thru 155	Intermittent	---	43.140691	-78.539061	3	5	125
019	88	DP-070	160 thru 162	Intermittent	---	43.081652	-78.391301	2	6	163
020	43	DP-075	171 thru 173	Ephemeral	---	43.142556	-78.524528	1	3	163
021	43	DP-078	182 thru 184	Ephemeral	---	43.142563	-78.524378	1	3	171
022	45	DP-079	185 thru 187	Ephemeral	---	43.144270	-78.514723	1	3	214
023	87	DP-092	209 thru 211	Intermittent	---	43.074244	-78.379761	1	5	225
024	51 & 52	DP-093	212 thru 214	Ephemeral	---	43.140726	-78.488008	1	4	184
025	93	DP-096	220 thru 222	Ephemeral	---	43.073207	-78.362096	.5	2	717
									<b>Totals:</b>	<b>4,643</b>

**Notes:**

1. A field delineation was performed by Fisher Associates between August 6 and October 2, 2019; June 16, 2020; and November 12 and 13, 2020.
2. Jurisdiction classifications provided represent the professional opinion of Fisher Associates. For approval of these classifications, a request for Jurisdictional Determination should be made to the US Army Corps of Engineers.
3. In accordance with the Navigable Waters Protection Rule, ditches/tributaries that are perennial and/or intermittent and contribute surface flow to WOTUS are federally jurisdictional by the EPA and USACE (see Section 3.0 for more information).
4. Ditches are not regulated by the New York State Department of Environmental Conservation unless they are determined to be altered natural tributaries possessing a state-regulated classification and/or standard designation.
5. Square feet and acreage were calculated in ArcGIS and Excel with more significant figures than are shown. Square footage is displayed as the nearest whole number, and acreage is displayed as either the nearest tenth or significant figure. Values may not entirely add up based on what is displayed because the total sums are based on the full value of each cell.

**APPENDIX A**  
**WETLAND DETERMINATION DATA FORMS**

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/6/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-001

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 3%

Subregion (LRR or MLRA): LRR-L Lat: 43.147779 Long: -78.717308 Datum: NAD '83

Soil Map Unit Name: Ovid Silt loam, limestone substratum, 0 to 3 percent slopes NWI classification: Not classified

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

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

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

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland Data Point for Wetland 001.</p>	

**HYDROLOGY**

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

**VEGETATION** – Use scientific names of plants.

Sampling Point: DP- 001

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
<b>Sapling/Shrub Stratum (Plot size: <u>15'</u>)</b>				
1. <u>Flacagnus umbellata</u>	<u>5%</u>	<u>N</u>	<u>NZ</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>5%</u> = Total Cover				
<b>Herb Stratum (Plot size: <u>5'</u>)</b>				
1. <u>Centaurea s toeja</u>	<u>70%</u>	<u>N</u>	<u>NZ</u>	
2. <u>Colium perenne</u>	<u>20%</u>	<u>Y</u>	<u>FACV</u>	
3. <u>Solidago canadensis</u>	<u>20%</u>	<u>Y</u>	<u>FACV</u>	
4. <u>Daucus carota</u>	<u>15%</u>	<u>Y</u>	<u>UPL</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>55%</u> = Total Cover				
<b>Woody Vine Stratum (Plot size: <u>30'</u>)</b>				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

---

**Prevalence Index worksheet:**

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

Prevalence Index = B/A = \_\_\_\_\_

---

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

---

**Definitions of Vegetation Strata:**

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

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

---

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No Y

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

*Autumn Olive & Spotted Knapweed do not have an indicator status so they were not included in total percent cover.*



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/6/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-002  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 1%  
 Subregion (LRR or MLRA): LRR-6 Lat: 43.147713 Long: -78.717255 Datum: NAD '83  
 Soil Map Unit Name: GA-Cacid silt loam, limestone substratum, 0 to 3 percent slopes NWI classification: Not class. Grid  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>WL 001</u>
Remarks: (Explain alternative procedures here or in a separate report.) <div style="font-size: 1.2em; font-family: cursive;">                     Data point DP for Wetland 001                 </div>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2"</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0"</u> Saturation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0"</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  	
Remarks:  	

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 002

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Typha angustifolia</u>	<u>100%</u>	<u>Y</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks: (Include photo numbers here or on a separate sheet.)				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 08/6/17  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-003  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): hillslope Local relief (concave, convex, none): convex Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-1 Lat: 43.177800 Long: -78.718085 Datum: NAD '83  
 Soil Map Unit Name: HA-Hilton & Cayuga soils, 0 to 3 percent slopes, bedrock substratum NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland Data Point for Wetland 002</p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 003

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>20</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Melilotus officinalis</u>	<u>60%</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Daucus carota</u>	<u>50%</u>	<u>Y</u>	<u>UPL</u>	
3. <u>Centaurea stoebe</u>	<u>40%</u>	<u>Y</u>	<u>NI</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>

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

*Spotted Ragweed didn't have an indicator status so it was not included in total percent cover*



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/6/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-004  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): Concave Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.177853 Long: -78.717988 Datum: NAD '83  
 Soil Map Unit Name: HmA - Hilton + Cayuga soils, 0 to 3 percent slopes, bedrock substratum NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u> If yes, optional Wetland Site ID: <u>WL-002</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">DEM, Data point for Wetland 002</p>	

**HYDROLOGY**

<p><b>Wetland Hydrology Indicators:</b></p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Surface Water (A1)</td> <td><input type="checkbox"/> Water-Stained Leaves (B9)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Marl Deposits (B15)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input checked="" type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<p><u>Secondary Indicators (minimum of two required)</u></p> <table style="width:100%;"> <tr> <td><input checked="" type="checkbox"/> Surface Soil Cracks (B6)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Drainage Patterns (B10)</td> </tr> <tr> <td><input type="checkbox"/> Moss Trim Lines (B16)</td> </tr> <tr> <td><input type="checkbox"/> Dry-Season Water Table (C2)</td> </tr> <tr> <td><input type="checkbox"/> Crayfish Burrows (C8)</td> </tr> <tr> <td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td> </tr> <tr> <td><input type="checkbox"/> Stunted or Stressed Plants (D1)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Geomorphic Position (D2)</td> </tr> <tr> <td><input type="checkbox"/> Shallow Aquitard (D3)</td> </tr> <tr> <td><input checked="" type="checkbox"/> Microtopographic Relief (D4)</td> </tr> <tr> <td><input checked="" type="checkbox"/> FAC-Neutral Test (D5)</td> </tr> </table>	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)	<input checked="" type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Moss Trim Lines (B16)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Crayfish Burrows (C8)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	<input checked="" type="checkbox"/> Geomorphic Position (D2)	<input type="checkbox"/> Shallow Aquitard (D3)	<input checked="" type="checkbox"/> Microtopographic Relief (D4)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)																															
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)																															
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)																															
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)																															
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)																															
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)																															
<input checked="" type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)																															
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)																															
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)																															
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)																																
<input checked="" type="checkbox"/> Surface Soil Cracks (B6)																																
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<input type="checkbox"/> Moss Trim Lines (B16)																																
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<input checked="" type="checkbox"/> Microtopographic Relief (D4)																																
<input checked="" type="checkbox"/> FAC-Neutral Test (D5)																																
<p><b>Field Observations:</b></p> Surface Water Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>-</u> Water Table Present? Yes <u>    </u> No <u>X</u> Depth (inches): <u>-</u> Saturation Present? (includes capillary fringe) Yes <u>    </u> No <u>X</u> Depth (inches): <u>-</u>	<p><b>Wetland Hydrology Present?</b> Yes <u>X</u> No <u>    </u></p>																															
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																																
Remarks:																																

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 004

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Typha angustifolia</u>	<u>100%</u>	<u>Y</u>	<u>CBL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100%</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
_____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: (Include photo numbers here or on a separate sheet.)				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP- 006  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.147559 Long: -78.715777 Datum: NAD '83  
 Soil Map Unit Name: Cu - Cut & fill land NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u> If yes, optional Wetland Site ID: <u>UL-003</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;"><u>PEM, Data point for Wetland 003</u></p>	

**HYDROLOGY**

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

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 004

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>21</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
<u>0</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phragmites australis</u>	<u>90%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Centauria stoebe</u>	<u>15%</u>	<u>-</u>	<u>NE</u>	
3. <u>Solidago canadensis</u>	<u>10%</u>	<u>N</u>	<u>FACV</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
<u>100%</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____				
2. _____				
3. _____				
4. _____				
_____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)  <p style="font-size: 1.2em; font-family: cursive;">Spotted knapweed does not have an indicator status therefore not included in the total cover.</p>				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-07  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): Convex Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.147592 Long: -78.715574 Datum: NAD '83  
 Soil Map Unit Name: C - Cut and Fill land NWI classification: Not classified

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland point for wetland 03</p>	

**HYDROLOGY**

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

VEGETATION – Use scientific names of plants.

Sampling Point: DP-007

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>0</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Centauria steeba</u>	<u>100%</u>	<u>-</u>	<u>NZ</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input checked="" type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Definitions of Vegetation Strata:</b> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? Yes _____ No <u>✓</u>				
Remarks: (Include photo numbers here or on a separate sheet.) <p><i>Centauria steeba has no indicator status so it was not included in total percent cover. There is no percent cover and Spotted Horsetail being the only species, problematic veg. was used. Dotted Horsetail is normally found in upland areas so veg. was not used.</i></p>				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19

Applicant/Owner: National Grid State: NY Sampling Point: DP-008

Investigator(s): James Ireland Section, Township, Range: Town of Lockport

Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 3%

Subregion (LRR or MLRA): LRR-L Lat: 43.147496 Long: -78.714993 Datum: NAD '83

Soil Map Unit Name: C6 - Canadaigua silt loam NWI classification: Not classified

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

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

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

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>WL-004</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Data Point for Wetland 001, PEM</p>	

**HYDROLOGY**

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

VEGETATION – Use scientific names of plants.

Sampling Point: DP-008

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0%</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0%</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Lythrum salicaria</u>	<u>60%</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Phalaris arundinacea</u>	<u>40%</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100%</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0%</u> = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: (Include photo numbers here or on a separate sheet.)				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County Niagara County Sampling Date: 8/7/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-009  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.147217 Long: -78.714995 Datum: NAD '83  
 Soil Map Unit Name: C6-Canandaigua silt loam NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland for Wetland 009 + Wetland 005</p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP-009

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>1</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Centaurea stoebe</u>	<u>90%</u>	<u>-</u>	<u>NI</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Solidago canadensis</u>	<u>15%</u>	<u>Y</u>	<u>OP FACU</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>15%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.

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

*Spotted Knopweed does not have an indicator status and was not used in total percent cover.*



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County Niagara county Sampling Date: 8/2/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP- 080  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Dpression Local relief (concave, convex, none): Concave Slope (%): 1%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.147256 Long: -78.712626 Datum: NAD '83  
 Soil Map Unit Name: Pst. Phelps gravelly loam, 0 to 5 percent slopes NWI classification: PFO1E  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes ✓ No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes ✓ No \_\_\_\_\_  
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>✓</u> No _____ Hydric Soil Present? Yes <u>✓</u> No _____ Wetland Hydrology Present? Yes <u>✓</u> No _____	Is the Sampled Area within a Wetland? Yes <u>✓</u> No _____ If yes, optional Wetland Site ID: <u>WL-005</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;"><i>PEM, Data point for WL-005, DEC wetland CP-23</i></p>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <u>✓</u> No _____ Depth (inches): <u>3"</u> Water Table Present? Yes <u>✓</u> No _____ Depth (inches): <u>0"</u> Saturation Present? (includes capillary fringe) Yes <u>✓</u> No _____ Depth (inches): <u>0"</u>	Wetland Hydrology Present? Yes <u>✓</u> No _____
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:  	
Remarks:  	

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- C10

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>d</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>d</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phragmites australis</u>	<u>80%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Lythrum salicaria</u>	<u>30%</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Phalaris arundinacea</u>	<u>10%</u>	<u>N</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>120%</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>d</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Madison County Sampling Date: 8/7/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-011  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1/6  
 Subregion (LRR or MLRA): LAR-L Lat: 43.145003 Long: -78.763256 Datum: NAD '83  
 Soil Map Unit Name: OdB- Odessa silty clay loam, 3 to 6 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>WL-006</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Wetland point for Wetland 006, PEM</p>	

**HYDROLOGY**

<p><b>Wetland Hydrology Indicators:</b></p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input checked="" type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input checked="" type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<p><u>Secondary Indicators (minimum of two required)</u></p> <input type="checkbox"/> Surface Soil Cracks (B6) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<p><b>Field Observations:</b></p> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>2"</u> Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>3"</u> Saturation Present? (includes capillary fringe) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>0"</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 011

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
_____ = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Lytham salicaria</u>	<u>50%</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Eupatorium perfoliatum</u>	<u>40%</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Verbena hastata</u>	<u>20%</u>	<u>N</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>110</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 8/7/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-012  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): terrace Local relief (concave, convex, none): convex Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.144762 Long: -78.762767 Datum: NAD '83  
 Soil Map Unit Name: OdA - Odessa silty clay loam, 0 to 3 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland point for Wetland 006</p>	

**HYDROLOGY**

<p><b>Wetland Hydrology Indicators:</b></p> <p><u>Primary Indicators (minimum of one is required; check all that apply)</u></p> <table style="width:100%;"> <tr> <td><input type="checkbox"/> Surface Water (A1)</td> <td><input type="checkbox"/> Water-Stained Leaves (B9)</td> </tr> <tr> <td><input type="checkbox"/> High Water Table (A2)</td> <td><input type="checkbox"/> Aquatic Fauna (B13)</td> </tr> <tr> <td><input type="checkbox"/> Saturation (A3)</td> <td><input type="checkbox"/> Marl Deposits (B15)</td> </tr> <tr> <td><input type="checkbox"/> Water Marks (B1)</td> <td><input type="checkbox"/> Hydrogen Sulfide Odor (C1)</td> </tr> <tr> <td><input type="checkbox"/> Sediment Deposits (B2)</td> <td><input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)</td> </tr> <tr> <td><input type="checkbox"/> Drift Deposits (B3)</td> <td><input type="checkbox"/> Presence of Reduced Iron (C4)</td> </tr> <tr> <td><input type="checkbox"/> Algal Mat or Crust (B4)</td> <td><input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)</td> </tr> <tr> <td><input type="checkbox"/> Iron Deposits (B5)</td> <td><input type="checkbox"/> Thin Muck Surface (C7)</td> </tr> <tr> <td><input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)</td> <td><input type="checkbox"/> Other (Explain in Remarks)</td> </tr> <tr> <td><input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)</td> <td></td> </tr> </table>	<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<p><u>Secondary Indicators (minimum of two required)</u></p> <table style="width:100%;"> <tr><td><input type="checkbox"/> Surface Soil Cracks (B6)</td></tr> <tr><td><input type="checkbox"/> Drainage Patterns (B10)</td></tr> <tr><td><input type="checkbox"/> Moss Trim Lines (B16)</td></tr> <tr><td><input type="checkbox"/> Dry-Season Water Table (C2)</td></tr> <tr><td><input type="checkbox"/> Crayfish Burrows (C8)</td></tr> <tr><td><input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)</td></tr> <tr><td><input type="checkbox"/> Stunted or Stressed Plants (D1)</td></tr> <tr><td><input type="checkbox"/> Geomorphic Position (D2)</td></tr> <tr><td><input type="checkbox"/> Shallow Aquitard (D3)</td></tr> <tr><td><input type="checkbox"/> Microtopographic Relief (D4)</td></tr> <tr><td><input type="checkbox"/> FAC-Neutral Test (D5)</td></tr> </table>	<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Drainage Patterns (B10)	<input type="checkbox"/> Moss Trim Lines (B16)	<input type="checkbox"/> Dry-Season Water Table (C2)	<input type="checkbox"/> Crayfish Burrows (C8)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	<input type="checkbox"/> Geomorphic Position (D2)	<input type="checkbox"/> Shallow Aquitard (D3)	<input type="checkbox"/> Microtopographic Relief (D4)	<input type="checkbox"/> FAC-Neutral Test (D5)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)																															
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)																															
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)																															
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)																															
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)																															
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)																															
<input type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)																															
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)																															
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)																															
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<input type="checkbox"/> Microtopographic Relief (D4)																																
<input type="checkbox"/> FAC-Neutral Test (D5)																																
<p><b>Field Observations:</b></p> Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>-</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>-</u> Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>-</u>	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																															
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:																																
Remarks:																																

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 01a

Tree Stratum (Plot size: <u>3e'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Centaurea stoebe</u>	<u>70%</u>	<u>-</u>	<u>NI</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Solidago canadensis</u>	<u>20%</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Solidago juncea</u>	<u>00%</u>	<u>-</u>	<u>NI</u>	
4. <u>Rudbeckia hirta</u>	<u>15%</u>	<u>Y</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>35%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Remarks: (Include photo numbers here or on a separate sheet.) <u>Spotted Knopweed &amp; Early goldenrod do not have an indicator status therefore not included in total percent cover.</u>				
				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Wingham County Sampling Date: 08/17/1  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-013  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 1%  
 Subregion (LRR or MLRA): LRD-L Lat: 43.143867 Long: -78.699591 Datum: NAD '83  
 Soil Map Unit Name: C-3- Cayuga + Ca2renavia silt loams, 2 to 6 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>    </u> No <u>X</u> Hydric Soil Present? Yes <u>    </u> No <u>X</u> Wetland Hydrology Present? Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u>    </u> No <u>X</u> If yes, optional Wetland Site ID: <u>    </u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland Point for Wetland 007</p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 013

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	<u>0</u>	= Total Cover		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	<u>0</u>	= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>5'</u> )				
1.	<u>100%</u>	<u>Y</u>	<u>FACU</u>	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	<u>100%</u>	= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
	<u>0</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

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**Prevalence Index worksheet:**

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

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

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**Definitions of Vegetation Strata:**

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

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No X



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara County Sampling Date: 5/2/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-019  
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 3%  
 Subregion (LRR or MLRA): LRR-1 Lat: 43.145683 Long: -78.698699 Datum: NAD '83  
 Soil Map Unit Name: OdA - Odessa silty clay loam, 0 to 3 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>WL-007</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="font-size: 1.2em; font-family: cursive;">Data Point for Wetland 007</div>	

**HYDROLOGY**

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
<b>Primary Indicators (minimum of one is required; check all that apply)</b> <input checked="" type="checkbox"/> Surface Water (A1) <input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Marl Deposits (B15) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Algal Mat or Crust (B4) <input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Other (Explain in Remarks) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Moss Trim Lines (B16) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input checked="" type="checkbox"/> Geomorphic Position (D2) <input type="checkbox"/> Shallow Aquitard (D3) <input checked="" type="checkbox"/> Microtopographic Relief (D4) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
<b>Field Observations:</b> Surface Water Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>1"</u> Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>~</u> Saturation Present? (includes capillary fringe) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): <u>~</u>	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP-019

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Lythrum salicaria</u>	<u>60%</u>	<u>Y</u>	<u>OBSL</u>	<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Phragmites australis</u>	<u>20%</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Scirpus cyperinus</u>	<u>10%</u>	<u>N</u>	<u>OBSL</u>	
4. <u>Eupatorium perfoliatum</u>	<u>5%</u>	<u>N</u>	<u>FACW</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>95%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				
Remarks: (Include photo numbers here or on a separate sheet.)				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/12/14  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-070  
 Investigator(s): Jimmy Ireland / Bryan Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): depression Local relief (concave, convex, none): concave Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.141571 Long: -78.674854 Datum: NAD '83  
 Soil Map Unit Name: C1A- Churchill silt loam - On 2 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>UL-008</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="text-align: center; font-size: 1.2em; font-family: cursive;">                     Data Point for Wetland -008                 </div>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 020

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>6</u> (A)  Total Number of Dominant Species Across All Strata: <u>6</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0%</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Fraxines pennsylvanica</u>	<u>100%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Acer saccharinum</u>	<u>100%</u>	<u>Y</u>	<u>FACW</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>200%</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Bidens frondosa</u>	<u>40%</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lythrum salicaria</u>	<u>30%</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Typha angustifolia</u>	<u>25%</u>	<u>Y</u>	<u>OBL</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>95%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Vitis riparia</u>	<u>35%</u>	<u>Y</u>	<u>FAC</u>	<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>35%</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/12/1  
 Applicant/Owner: National Grid State: NY Sampling Point: DP 021  
 Investigator(s): Jimmy Ireland / Bryan Hunter Section, Township, Range: TOWN of Lockport  
 Landform (hillslope, terrace, etc.): Access road Local relief (concave, convex, none): convex Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-2 Lat: 43.141918 Long: -78.674993 Datum: NAD '83  
 Soil Map Unit Name: C1A - Churchill silt loam, 0 to 2 percent slopes NWI classification: Not Class. Good  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland data point for Wetland 008</p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 021

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u>	= Total Cover		
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Centaurea stoebe</u>	<u>60%</u>	-	<u>NZ</u>	
2. <u>Phleum pratense</u>	<u>40%</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Daucus carota</u>	<u>30%</u>	<u>Y</u>	<u>UPL</u>	
4. <u>Solidago canadensis</u>	<u>20%</u>	<u>Y</u>	<u>FACW</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>150%</u>	= Total Cover		
Woody Vine Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	_____	= Total Cover		

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 0% (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: \_\_\_\_\_ Multiply by:  
 OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_  
 FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_  
 FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_  
 FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_  
 UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_  
 Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)  
 Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**  
 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

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

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No X

Remarks: (Include photo numbers here or on a separate sheet.)  
Spotted Knopweed in an invasive and does not have an indicator status, therefore it was not included in total cover.



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Lockport Niagara Sampling Date: 8/13/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-026  
 Investigator(s): Jimmy Ireland / Bryan Morse Section, Township, Range: TOWN of Lockport  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.140207 Long: -78.630313 Datum: NAD '83  
 Soil Map Unit Name: H1A- Hiltan silt loam, 0 to 3 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>WL-009</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="font-size: 1.2em; font-family: cursive;">                     REM Data point for Wetland 009                 </div>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 026

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	<u>0</u>	= Total Cover		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	<u>0</u>	= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>5'</u> )				
1.	<u>100%</u>	<u>Y</u>	<u>FACW</u>	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	<u>100%</u>	= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
	<u>0</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

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**Definitions of Vegetation Strata:**

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

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-027  
 Investigator(s): Jimmy Enke / Bryan Nunez Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Hill slope Local relief (concave, convex, none): convex Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.146252 Long: -78.630497 Datum: NAD '83  
 Soil Map Unit Name: H1A - Hiltun Silty loam, 0 to 3 percent slopes NWI classification: Not class. field  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?    Yes <u>    </u> No <u>X</u> Hydric Soil Present?                    Yes <u>    </u> No <u>X</u> Wetland Hydrology Present?          Yes <u>    </u> No <u>X</u>	Is the Sampled Area within a Wetland?    Yes <u>    </u> No <u>X</u> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="text-align: center; font-size: 1.2em; font-family: cursive;">                     Upland Point for Wetland 009                 </div>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 027

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30'</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
1.				
2.				
3.				
4.				
5.				
6.				
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
1.	<u>15%</u>	<u>Y</u>	<u>FACU</u>	
2.				
3.				
4.				
5.				
6.				
<b>Herb Stratum</b> (Plot size: <u>5'</u> )				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1.	<u>80%</u>	<u>Y</u>	<u>FAC</u>	
2.	<u>30%</u>	<u>Y</u>	<u>UPL</u>	
3.	<u>50%</u>	<u>-</u>	<u>-</u>	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
<b>Woody Vine Stratum</b> (Plot size: <u>30'</u> )				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
1.				
2.				
3.				
4.				
<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>				
Remarks: (Include photo numbers here or on a separate sheet.)  <p style="font-size: 1.2em; font-family: cursive;">Poaceae wasn't able to be identified down to species therefore not included in total percent cover</p>				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-029  
 Investigator(s): Jimmy Erland / Bryan Moore Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 10%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.140264 Long: -78.635364 Datum: NAD '83  
 Soil Map Unit Name: C1A - Chertville silt loam, 0 to 2 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No \_\_\_\_\_ (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No \_\_\_\_\_  
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?    Yes <u>X</u> No _____ Hydric Soil Present?                    Yes <u>X</u> No _____ Wetland Hydrology Present?          Yes <u>X</u> No _____	Is the Sampled Area within a Wetland?                    Yes <u>X</u> No _____ If yes, optional Wetland Site ID: <u>UL-010</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="text-align: center; font-size: 1.2em; font-family: cursive;">DEM, Wetland 010</div>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP-029

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Apocynum cannabinum</u>	<u>30%</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>30%</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Drymies australis</u>	<u>60%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Lythrum salicaria</u>	<u>40%</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Melilotus officinalis</u>	<u>40%</u>	<u>Y</u>	<u>FAC</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>140%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)

Total Number of Dominant Species Across All Strata: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 75% (A/B)

**Prevalence Index worksheet:**

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

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Definitions of Vegetation Strata:**

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

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-030  
 Investigator(s): Jimmy Enlow Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): convex Slope (%): 26  
 Subregion (LRR or MLRA): LRR-L Lat: 43.140466 Long: -78.635397 Datum: NAD '83  
 Soil Map Unit Name: C1A - Churchville silt loam, 0 to 2 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland Data Point for Wetland 10</p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 030

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	<u>0</u> = Total Cover			
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )				
1. <u>Salix lasiolepis</u>	<u>5%</u>	<u>Y</u>	<u>FACW</u>	
2.				
3.				
4.				
5.				
6.				
7.				
	<u>5%</u> = Total Cover			
<b>Herb Stratum</b> (Plot size: <u>5'</u> )				
1. <u>Phleum pratense</u>	<u>70%</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Centauria stoebe</u>	<u>40%</u>	<u>-</u>	<u>-</u>	
3. <u>Daucus carota</u>	<u>30%</u>	<u>Y</u>	<u>UPL</u>	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	<u>100%</u> = Total Cover			
<b>Woody Vine Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
	<u>0</u> = Total Cover			
Remarks: (Include photo numbers here or on a separate sheet.)  <p style="font-size: 1.2em; margin-left: 20px;"><i>Centauria stoebe does not have an indicator status therefore not included in total percent cover.</i></p>				

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

\_\_\_ 1 - Rapid Test for Hydrophytic Vegetation

\_\_\_ 2 - Dominance Test is >50%

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

\_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

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**Definitions of Vegetation Strata:**

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

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No X



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/12  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-031  
 Investigator(s): Jimmy Ireland / Bryan Moore Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.140343 Long: -78.638573 Datum: NAD '83  
 Soil Map Unit Name: C1A - Churchill silt loam, 0 to 2 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em; font-family: cursive;">Upland data point for Wetland 011</p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 031

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>0</u> = Total Cover			
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Aquarium cannabinum</u>	<u>10%</u>	<u>Y</u>	<u>FAC</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
	<u>10%</u> = Total Cover			
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Euthamia graminifolia</u>	<u>70%</u>	<u>X</u>	<u>FAC</u>	
2. <u>Poaceae sp.</u>	<u>10%</u>	<u>-</u>	<u>-</u>	
3. <u>Rubus allegheniensis</u>	<u>20%</u>	<u>Y</u>	<u>FACU</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
	<u>90%</u> = Total Cover			
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
	<u>0</u> = Total Cover			

**Dominance Test worksheet:**  
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)  
 Total Number of Dominant Species Across All Strata: 3 (B)  
 Percent of Dominant Species That Are OBL, FACW, or FAC: 66% (A/B)

**Prevalence Index worksheet:**  
 Total % Cover of: \_\_\_\_\_ Multiply by:  
 OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_  
 FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_  
 FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_  
 FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_  
 UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_  
 Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)  
 Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**  
 \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation  
 2 - Dominance Test is >50%  
 \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>  
 \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)  
 \_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

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

**Hydrophytic Vegetation Present?** Yes Y No

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



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-032  
 Investigator(s): Jimmy Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Disruption Local relief (concave, convex, none): Concave Slope (%): 3%  
 Subregion (LRR or MLRA): LRR-6 Lat: 43.140328 Long: -78.638349 Datum: NAD '83  
 Soil Map Unit Name: CIA - Chubbville silt loam, 0 to 2 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>Y</u> No <u>    </u> Hydric Soil Present? Yes <u>Y</u> No <u>    </u> Wetland Hydrology Present? Yes <u>Y</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u> If yes, optional Wetland Site ID: <u>WL-011</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center"><u>DEM, Wetland 011</u></p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 03d

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30'</u> )				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
1.				
2.				
3.				
4.				
5.				
6.				
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
<u>0</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> ___ 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 <sup>1</sup> ___ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
<b>Herb Stratum</b> (Plot size: <u>5'</u> )				
1. <i>Phragmites australis</i>	50%	Y	FACW	
2. <i>Lythrum salicaria</i>	40%	Y	OBL	
3. <i>Nelumbo officinalis</i>	15%	N	FACU	
4. <i>Euthamia graminifolia</i>	10%	N	FAC	
5. <i>Rubus allegheniensis</i>	10%	N	FACU	
6.				
7.				
8.				
9.				
10.				
11.				
12.				
<u>125%</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
<b>Woody Vine Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
<u>0</u> = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____
Remarks: (Include photo numbers here or on a separate sheet.)				



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-039  
 Investigator(s): Jimmy Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): convex Slope (%): 3%  
 Subregion (LRR or MLRA): LRR-1 Lat: 43.140356 Long: -78.629761 Datum: NAD '83  
 Soil Map Unit Name: Lo. Latent silty clay loam, 0 to 3 percent slopes NWI classification: Not Classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;">Upland Data Point for Wetland area</p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP-034

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
				_____ = Total Cover
Sapling/Shrub Stratum (Plot size: <u>15'</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
				_____ = Total Cover
Herb Stratum (Plot size: <u>5'</u> )				
1. <u>Poaaceae spp</u>	<u>60%</u>	-	-	
2. <u>Euthamia gaeminiifolia</u>	<u>35%</u>	Y	FAC	
3. <u>Eleocharis acicularis</u>	<u>20%</u>	Y	FACW	
4. <u>Dipsacus laciniatus</u>	<u>2%</u>	Y	FACW	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
				<u>75%</u> = Total Cover
Woody Vine Stratum (Plot size: <u>30'</u> )				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
				<u>0</u> = Total Cover

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: 3 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 33% (A/B)

**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

**Definitions of Vegetation Strata:**

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

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

**Hydrophytic Vegetation Present?** Yes \_\_\_\_\_ No X

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

*Po* Could not identify Poaceae down to species therefore did not include in total percent cover.



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/21/9  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-035  
 Investigator(s): Sunny Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Toeslope Local relief (concave, convex, none): concave Slope (%): 1%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.140703 Long: -78.625633 Datum: NAD '83  
 Soil Map Unit Name: OvA - Ovid silt loam, 0 to 2 percent NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, optional Wetland Site ID: <u>WL-012</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <p align="center" style="font-size: 1.2em;"><u>Data point for Wetland 002</u></p>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP-035

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	<u>0</u>	= Total Cover		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	<u>0</u>	= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>5'</u> )				
1.	<u>95%</u>	<u>Y</u>	<u>OBL</u>	
2.	<u>15%</u>	<u>N</u>	<u>OBL</u>	
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	<u>110%</u>	= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
	<u>0</u>	= Total Cover		
Remarks: (Include photo numbers here or on a separate sheet.)				

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is ≤3.0<sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

---

**Definitions of Vegetation Strata:**

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

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes  No



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/14/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-034  
 Investigator(s): Jimmy Ireland Section, Township, Range: Town of Royalton  
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1%  
 Subregion (LRR or MLRA): LRR-L Lat: 43.140343 Long: -78.615388 Datum: NAD '83  
 Soil Map Unit Name: QuA- Ouid siltloam, 0 to 3 percent slopes NWI classification: Not class. find  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u> If yes, optional Wetland Site ID: <u>WL-017</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="text-align: center; font-size: 1.2em; font-family: cursive;">                     PEM, Data Point for Wetland 013                 </div>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 038

	Absolute % Cover	Dominant Species?	Indicator Status	
<b>Tree Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	$\emptyset$	= Total Cover		
<b>Sapling/Shrub Stratum</b> (Plot size: <u>15'</u> )				
1.				
2.				
3.				
4.				
5.				
6.				
7.				
	$\emptyset$	= Total Cover		
<b>Herb Stratum</b> (Plot size: <u>5'</u> )				
1.	<u>95%</u>	<u>Y</u>	<u>OBL</u>	
2.	<u>15%</u>	<u>N</u>	<u>FACW</u>	
3.	<u>10%</u>	<u>N</u>	<u>FACW</u>	
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
	<u>100%</u>	= Total Cover		
<b>Woody Vine Stratum</b> (Plot size: <u>30'</u> )				
1.				
2.				
3.				
4.				
	$\emptyset$	= Total Cover		
<p>Remarks: (Include photo numbers here or on a separate sheet.)</p>				

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: 1 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)

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**Prevalence Index worksheet:**

Total % Cover of: \_\_\_\_\_ Multiply by:

OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_

FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_

FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_

FACU species \_\_\_\_\_ x 4 = \_\_\_\_\_

UPL species \_\_\_\_\_ x 5 = \_\_\_\_\_

Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B)

Prevalence Index = B/A = \_\_\_\_\_

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**Hydrophytic Vegetation Indicators:**

1 - Rapid Test for Hydrophytic Vegetation

2 - Dominance Test is >50%

3 - Prevalence Index is  $\leq 3.0$ <sup>1</sup>

4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

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

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**Definitions of Vegetation Strata:**

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

**Sapling/shrub** – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

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

**Woody vines** – All woody vines greater than 3.28 ft in height.

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**Hydrophytic Vegetation Present?** Yes  No

**SOIL**

Sampling Point: DP- 035

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

Depth (Inches)	Matrix		Redox Features		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-8	10YR 3/1	70%	10YR 5/6	15%	C	M	CL	
<del>8-20</del>	<del>10YR 3/1</del>		7.5YR 5/8	15%	C	M		
8-20	10YR 3/2	60%	7.5YR 5/8	20%	C	M	C	
			2.5YR 4/6	20%	C	M		

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

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

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

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L, M)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: N/A  
 Depth (inches): N/A

Hydric Soil Present? Yes  No

Remarks:

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/17/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-039  
 Investigator(s): Jimmy Ireland Section, Township, Range: Town of Royalton  
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2%  
 Subregion (LRR or MLRA): LRR-6 Lat: 43.140550 Long: -78.617616 Datum: NAD '83  
 Soil Map Unit Name: OdA - Odessa silty clay loam, 0 to 3 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present?                    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="text-align: center; font-size: 1.2em; font-family: cursive;">                     Upland Data Point for Wetland 013                 </div>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP-039

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)  Total Number of Dominant Species Across All Strata: <u>2</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Lolium perenne</u>	<u>80%</u>	<u>Y</u>	<u>FACU</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Dipsacus laciniatus</u>	<u>50%</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Datura carota</u>	<u>20%</u>	<u>N</u>	<u>UPL</u>	
4. <u>Asclepias syriaca</u>	<u>10%</u>	<u>N</u>	<u>UPL</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>160</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>



**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/19/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-046  
 Investigator(s): Jimmy Zirkel Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): None Slope (%): 1%  
 Subregion (LRR or MLRA): LRR-1 Lat: 43.140503 Long: -78.622065 Datum: NAD '83  
 Soil Map Unit Name: Oda - Odessa silty clay loam, 0 to 3 percent slopes NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present?                    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present?        Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland?                    Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, optional Wetland Site ID: _____
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="text-align: center; font-size: 1.2em; font-family: cursive;">                     Upland for Wetland 014                 </div>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP-040

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>33%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>∅</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>∅</u> = Total Cover				<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Lolium perenne</u>	<u>70%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Dipsacus laciniatus</u>	<u>35%</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Apoecynum cannabinum</u>	<u>30%</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Asclepias syriaca</u>	<u>15%</u>	<u>N</u>	<u>UPL</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>150%</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>∅</u> = Total Cover				<b>Hydrophytic Vegetation Present?</b> Yes _____ No <u>X</u>
Remarks: (Include photo numbers here or on a separate sheet.)				

**SOIL**

Sampling Point: DP-46

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

Depth (Inches)	Matrix		Redox Features		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	Color (moist)	%	Color (moist)	%				
0-4	10yr <sup>3/2</sup>	90	10yr <sup>5/8</sup>	10	C	M	Si L	
14-20	10yr <sup>3/2</sup>	50	7.5yr <sup>5/8</sup>	30	C	M		
			2.5yr <sup>5/8</sup>	20	C	M	L C	

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.

<sup>2</sup>Location: PL=Pore Lining, M=Matrix.

**Hydric Soil Indicators:**

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

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

**Indicators for Problematic Hydric Soils<sup>3</sup>:**

- 2 cm Muck (A10) (LRR K, L, MLRA 149B)
- Coast Prairie Redox (A16) (LRR K, L, R)
- 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
- Dark Surface (S7) (LRR K, L, M)
- Polyvalue Below Surface (S8) (LRR K, L)
- Thin Dark Surface (S9) (LRR K, L)
- Iron-Manganese Masses (F12) (LRR K, L, R)
- Piedmont Floodplain Soils (F19) (MLRA 149B)
- Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
- Red Parent Material (F21)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: MLR  
 Depth (Inches): N/A

Hydric Soil Present? Yes  No

Remarks:

**WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region**

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/14/19  
 Applicant/Owner: National Grid State: NY Sampling Point: DP-041  
 Investigator(s): J. Mmy Ireland Section, Township, Range: Town of Lockport  
 Landform (hillslope, terrace, etc.): Drainage way Local relief (concave, convex, none): concave Slope (%): 1%  
 Subregion (LRR or MLRA): LRRL Lat: 43.140276 Long: -78.622058 Datum: NAD '83  
 Soil Map Unit Name: OdA-Odessa silty loam clay loam, 0 to 3 percent slope NWI classification: Not classified  
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No      (If no, explain in Remarks.)  
 Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No       
 Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <u>X</u> No <u>    </u> Hydric Soil Present? Yes <u>X</u> No <u>    </u> Wetland Hydrology Present? Yes <u>X</u> No <u>    </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>    </u> If yes, optional Wetland Site ID: <u>WL-019</u>
Remarks: (Explain alternative procedures here or in a separate report.)  <div style="text-align: center; font-size: 1.2em; font-family: cursive;">                     PEA datapoint of Wetland 019.                 </div>	

**HYDROLOGY**

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

**VEGETATION – Use scientific names of plants.**

Sampling Point: DP- 041

Tree Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A)  Total Number of Dominant Species Across All Strata: <u>3</u> (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B)  Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Lythrum salicaria</u>	<u>50%</u>	<u>Y</u>	<u>OBL</u>	<b>Hydrophytic Vegetation Indicators:</b> <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input type="checkbox"/> 3 - Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)  <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Eriophorum graminifolium</u>	<u>30%</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Bidens aristata</u>	<u>30%</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Juncus effusus</u>	<u>20%</u>	<u>N</u>	<u>OBL</u>	
5. <u>Dipsacus laciniatus</u>	<u>10%</u>	<u>N</u>	<u>FACU</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>140%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				<b>Definitions of Vegetation Strata:</b>  <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  <b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  <b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  <b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
<u>0</u> = Total Cover				
<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No _____				
Remarks: (Include photo numbers here or on a separate sheet.)				



**APPENDIX B**  
**WATERCOURSE DATA FORMS - STREAMS**

**Stream Data Form**

Stream Field ID: Stream 001  
 Data Point ID: DP-005 Date: 08/06/19 Project #: 190176  
 Project Name: NO - Batavia - Lockport Article VII  
 Evaluator(s): Jimmy Ireland  
 County: Niagara State: NY  
 Stream Name: Erie Canal - NYS Barge Canal  
 State Classified: Yes  No  Not Applicable   
 If Yes, Classification: C  
 Lat: 43.147784 Long: -78.716194

**Hydrologic Characteristics**

Flow Regime: Perennial  Intermittent  Ephemeral   
 Surface Water: Present  Absent   
 Perceptible Flow: Present  Absent   
 Water Depth at Thalweg: 15'  
 Wetted Perimeter Width: 84'  
 Flow/Gradient Direction: East

**Geomorphologic Characteristics**

Primary Substrate Class: Unknown

	Width (ft.)		
	at DP	Min	Max
OHWB	84'	84'	100'
Top of Bank	84'	84'	100'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 85° - 1143%  
 Right: 65° - 1143%

**Bank Stability Summary**

Left: Stable - Manmade Banks  
 Right: Same as above

**Stream Data Form**

Data Point ID: DP- 005

**Habitat Characteristics**

Aquatic Vegetation Present: Yes  No

If Yes, Describe: \_\_\_\_\_

Aquatic Organisms Observed: Yes  No

If Yes, Describe: \_\_\_\_\_

Terrestrial Organisms Observed: Yes  No

If Yes, Describe: \_\_\_\_\_

**Riparian Characteristics**

Riparian Vegetation Description (0' to 150' from TOB):

Left: Upland 0'-150' - Upland shrubs, Rose & Honey suckle

Right: Same as above.

Associated Wetland Present: Yes  No

If Yes, ID: \_\_\_\_\_

Associated Artificial Drain Present: Yes  No

If Yes, ID: \_\_\_\_\_

**Jurisdictional Connectivity/Supplemental Comments:**

This is a section of the Erie Canal

**Stream Data Form**

Stream Field ID: Stream 002  
 Data Point ID: DP-018 Date: 8/8/19 Project #: 190176  
 Project Name: NG Batavia-Lockport Article VII  
 Evaluator(s): James Ireland  
 County: Niagara State: New York  
 Stream Name: Minor tributary to Tonawanda Creek  
 State Classified: Yes  No  Not Applicable   
 If Yes, Classification: B  
 Lat: 43.142082 Long: -78.678408

**Hydrologic Characteristics**

Flow Regime: Perennial  Intermittent  Ephemeral   
 Surface Water: Present  Absent   
 Perceptible Flow: Present  Absent   
 Water Depth at Thalweg: 36" inches  
 Wetted Perimeter Width: 20' feet  
 Flow/Gradient Direction: South

**Geomorphologic Characteristics**

Primary Substrate Class: S-C

	Width (ft.)		
	at DP	Min	Max
OHWM	<u>20'</u>	<u>3'</u>	<u>22'</u>
Top of Bank	<u>22'</u>	<u>4'</u>	<u>25'</u>

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 50° - 120%  
 Right: 40° - 84%

**Bank Stability Summary**

Left: Stable - Degraded Banks  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Right: Same as above  
 \_\_\_\_\_  
 \_\_\_\_\_

**Stream Data Form**

Data Point ID: DP- 018

**Habitat Characteristics**

Aquatic Vegetation Present: Yes  No

If Yes, Describe: \_\_\_\_\_

Aquatic Organisms Observed: Yes  No

If Yes, Describe: \_\_\_\_\_

Terrestrial Organisms Observed: Yes  No

If Yes, Describe: \_\_\_\_\_

**Riparian Characteristics**

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' ROW - Shrub - Gray dogwood, river grape,  
Queen Ann's, C. Goldenroed, P. Loosstrife

Right: Same as above

Associated Wetland Present: Yes  No

If Yes, ID: \_\_\_\_\_

Associated Artificial Drain Present: Yes  No

If Yes, ID: \_\_\_\_\_

**Jurisdictional Connectivity/Supplemental Comments:**

Flows south off PSL into NWE

\_\_\_\_\_

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## Stream Data Form

Stream Field ID: Stream 003  
 Data Point ID: DP-022 Date: 8/12/19 Project #: 190176  
 Project Name: NG Batavia-Lockport Article VII  
 Evaluator(s): James Ireland / Bryan Moore  
 County: Albany State: New York  
 Stream Name: Unnamed Tributary to Mud Creek  
 State Classified: Yes  No  Not Applicable   
 If Yes, Classification: NA  
 Lat: 43.141896 Long: -78.665761

### Hydrologic Characteristics

Flow Regime: Perennial  Intermittent  Ephemeral   
 Surface Water: Present  Absent   
 Perceptible Flow: Present  Absent   
 Water Depth at Thalweg: 0" inches  
 Wetted Perimeter Width: 0' feet  
 Flow/Gradient Direction: West / South

### Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (ft.)		
	at DP	Min	Max
OHWM	4	2	4
Top of Bank	6	23	6

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 40° - 84%  
 Right: 35° - 70%

### Bank Stability Summary

Left: Stable - Vegetated Banks  
 Right: Same as above

## Stream Data Form

Data Point ID: DP- 022

### Habitat Characteristics

Aquatic Vegetation Present: Yes  No

If Yes, Describe: \_\_\_\_\_

Aquatic Organisms Observed: Yes  No

If Yes, Describe: \_\_\_\_\_

Terrestrial Organisms Observed: Yes  No

If Yes, Describe: \_\_\_\_\_

### Riparian Characteristics

Riparian Vegetation Description (0' to 150' from TOB):

Left: 0'-150' - Residential Yard.

Right: 0'-150' - Upland / Deciduous forest

Associated Wetland Present: Yes  No

If Yes, ID: \_\_\_\_\_

Associated Artificial Drain Present: Yes  No

If Yes, ID: AD-015

### Jurisdictional Connectivity/Supplemental Comments:

Flows south off of PSC into residential area.

## Stream Data Form

Stream Field ID: Stream 004  
 Data Point ID: DP-083 Date: 8/2/19 Project #: 190176  
 Project Name: NG Batavia-Lockport Article VII  
 Evaluator(s): James Ireland  
 County: Niagara County State: New York  
 Stream Name: Unnamed Tributary to Mud Creek  
 State Classified: Yes  No  Not Applicable   
 If Yes, Classification: N/A  
 Lat: 43.141015 Long: -78.649941

### Hydrologic Characteristics

Flow Regime: Perennial  Intermittent  Ephemeral   
 Surface Water: Present  Absent   
 Perceptible Flow: Present  Absent   
 Water Depth at Thalweg: 21" ± inches  
 Wetted Perimeter Width: 6' ± feet  
 Flow/Gradient Direction: South

### Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (ft.)		
	at DP	Min	Max
OHWM	6'	6'	9'
Top of Bank	11'	16'	15'

Bank Slope [Reported as % or Horizontal:Vertical(H:V)]:

Left: 50° - 120%  
 Right: 55° - 143%

### Bank Stability Summary

Left: Stable - Vegetated Banks  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Right: Same as above  
 \_\_\_\_\_  
 \_\_\_\_\_