



**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

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		

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

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		

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:



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:



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

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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

Name: Fisher Associates
Address: 180 Charlotte Street
Rochester, NY 14607

Contact: Sean Milne: (585) 334-1310 ext. 216

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, 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.

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-Twelve Mile (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 Geological 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.

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

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

List of NRCS Soil Types within the Project Study Limits		
Map Unit Symbol	Map Unit Name	Percent Hydric
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	Canandaigua 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
ClB	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
HlA	Hilton silt loam, 0 to 3 percent slopes	0
HlB	Hilton silt loam, 3 to 8 percent slopes	0
HmA	Hilton and Cayuga soils, 0 to 3 percent slopes, bedrock substratum	0

List of NRCS Soil Types within the Project Study Limits		
Map Unit Symbol	Map Unit Name	Percent Hydric
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 Tonawanda 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.

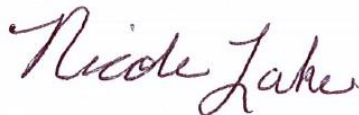
Permission was obtained from the NYSDEC in order to access the Tonawanda and John White WMAs. Heidi Kennedy, Wildlife Biologist from the NYSDEC, was the contact person for the Project and was notified each time access to the WMAs was needed.

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

This Report was Prepared By:

Fisher Associates, P.E., L.S., L.A., D.P.C.



Nicole Lake, WPIT
Environmental Scientist
585-334-1310 ext. 241
NLake@fisherassoc.com

And Reviewed By:

Fisher Associates, P.E., L.S., L.A., D.P.C.



Sean Milne
Senior Environmental Project Manager
585-334-1310 ext. 216
SMilne@fisherassoc.com

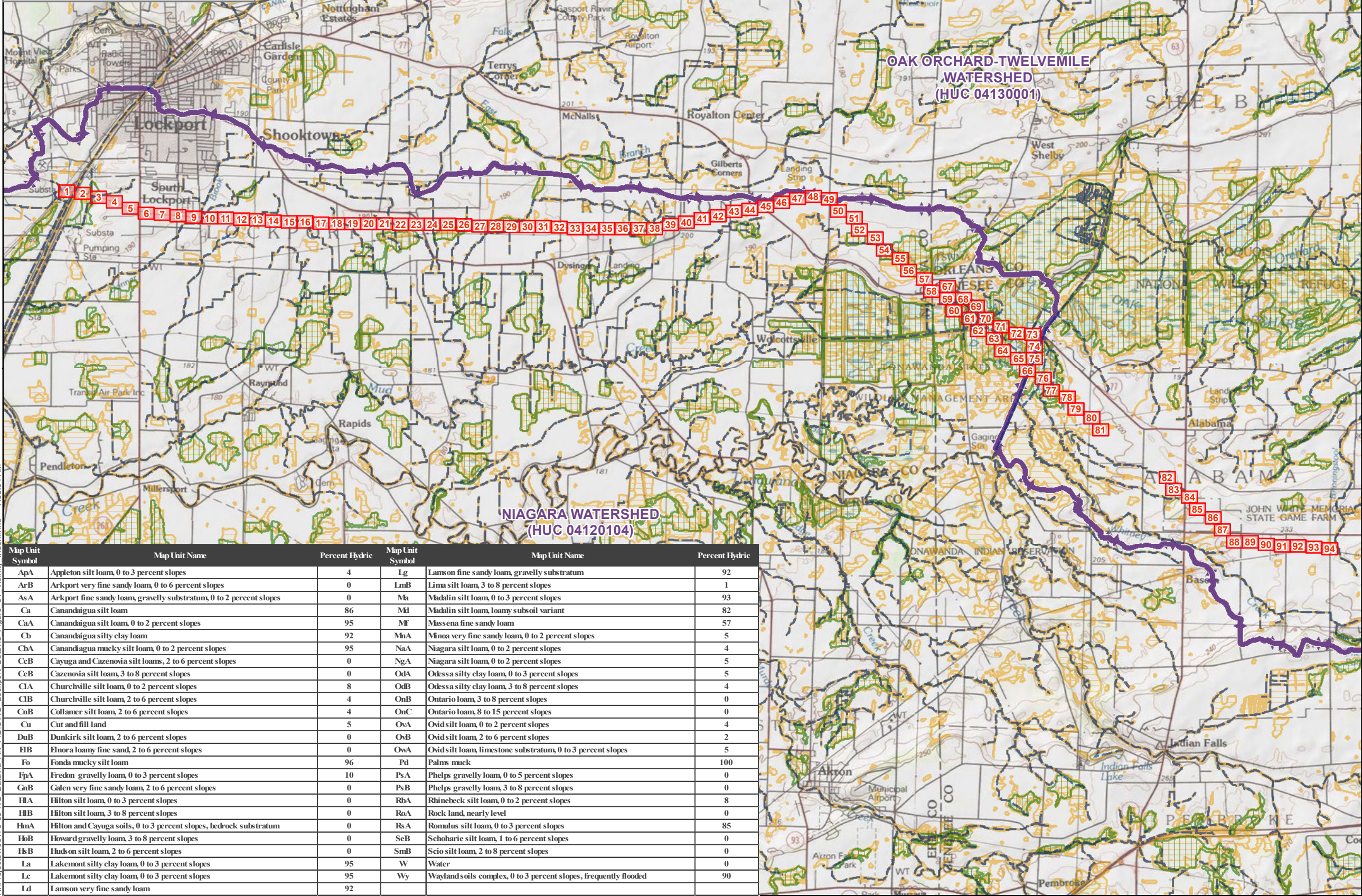
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FIGURES

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



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	Madalin silt loam, 0 to 3 percent slopes	93
Ca	Canandaigua silt loam	86	Md	Maddlin 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
ChA	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	Rhinebeck 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
HoB	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	Lamson very fine sandy loam	92			

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

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

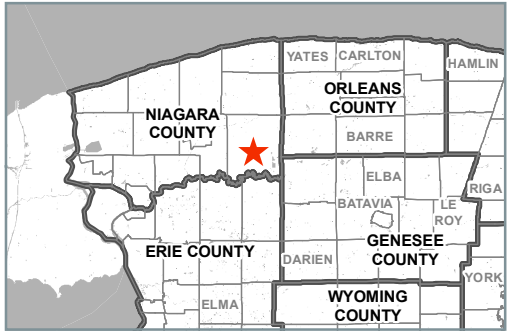
Project Watershed(s):
Niagara (HUC 04120104)
Oak Orchard - Twelve Mile (HUC 04130001)

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

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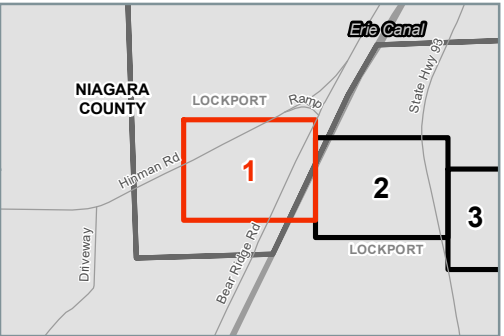
NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: WETLAND AND WATERCOURSE
DELINEATION MAP

- Data Point
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- × Fence
- Treeline
- NYSDEC Stream
- Transmission Line
- Transmission Line Reroute
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- Delineated Non-Jurisdictional Ditch
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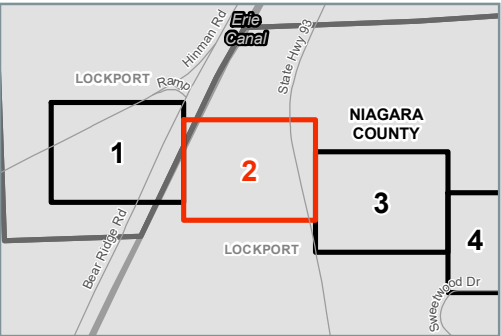
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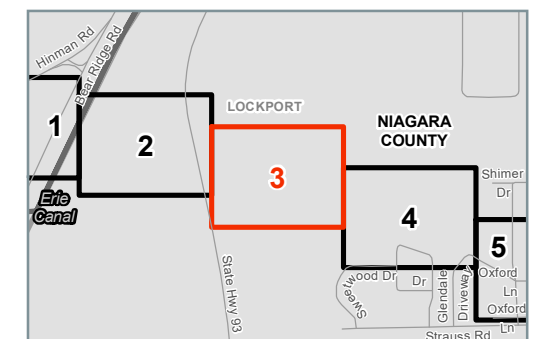
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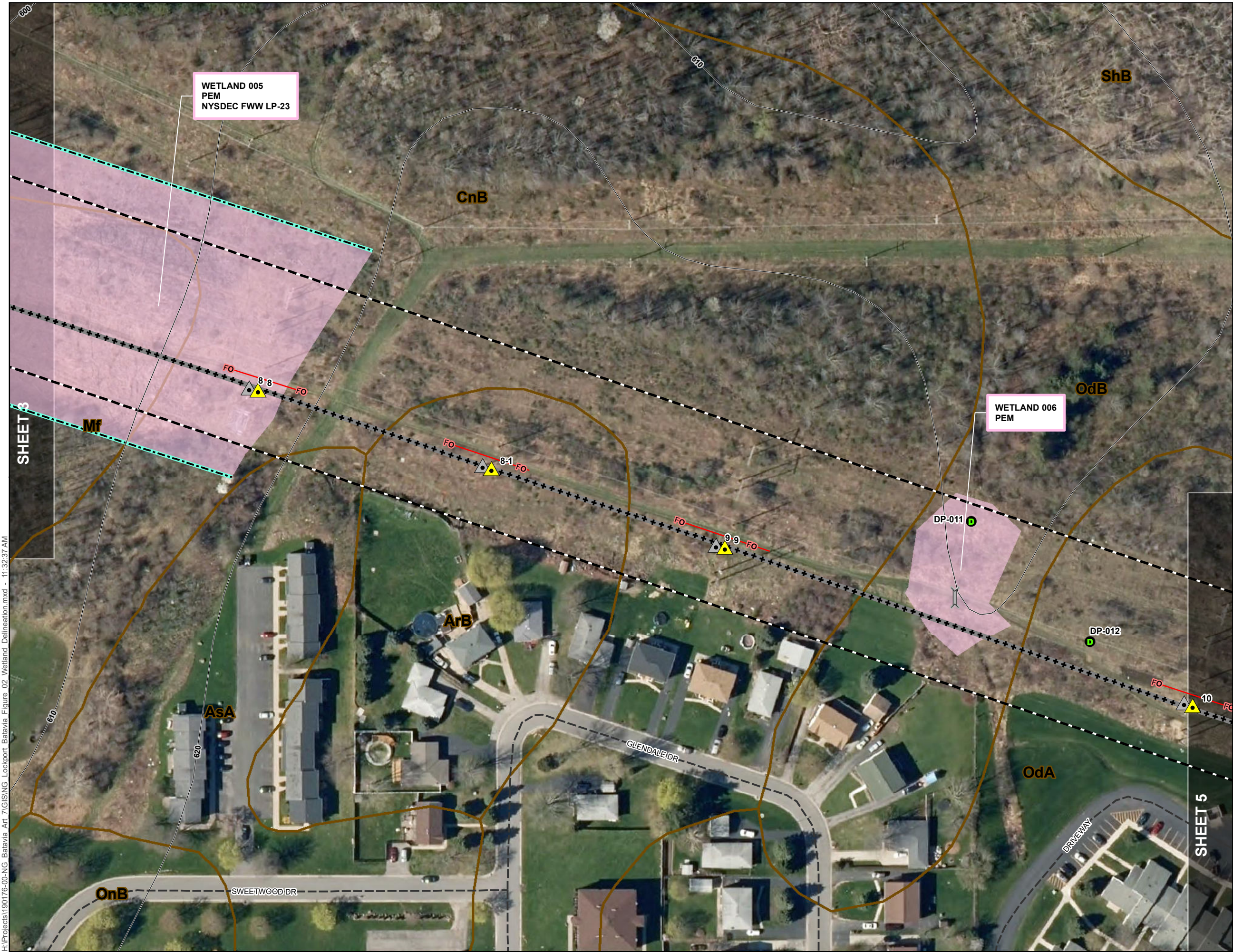
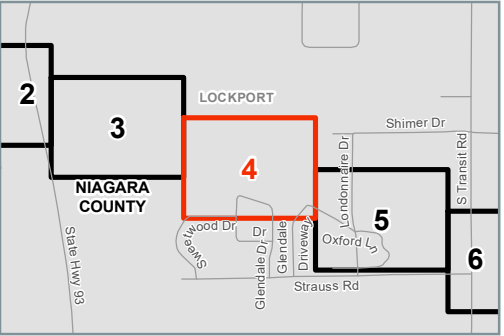
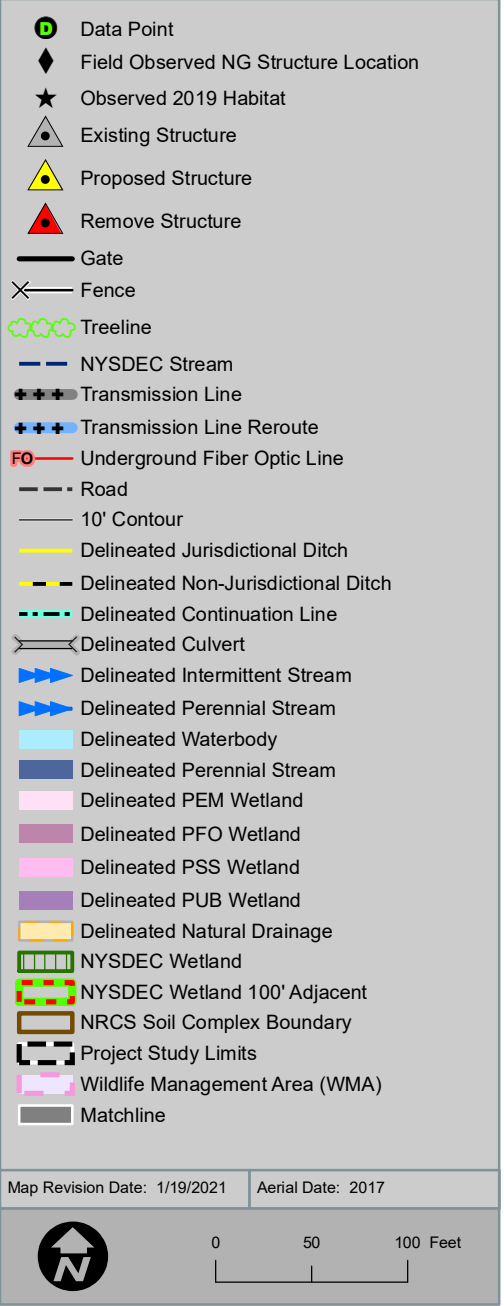
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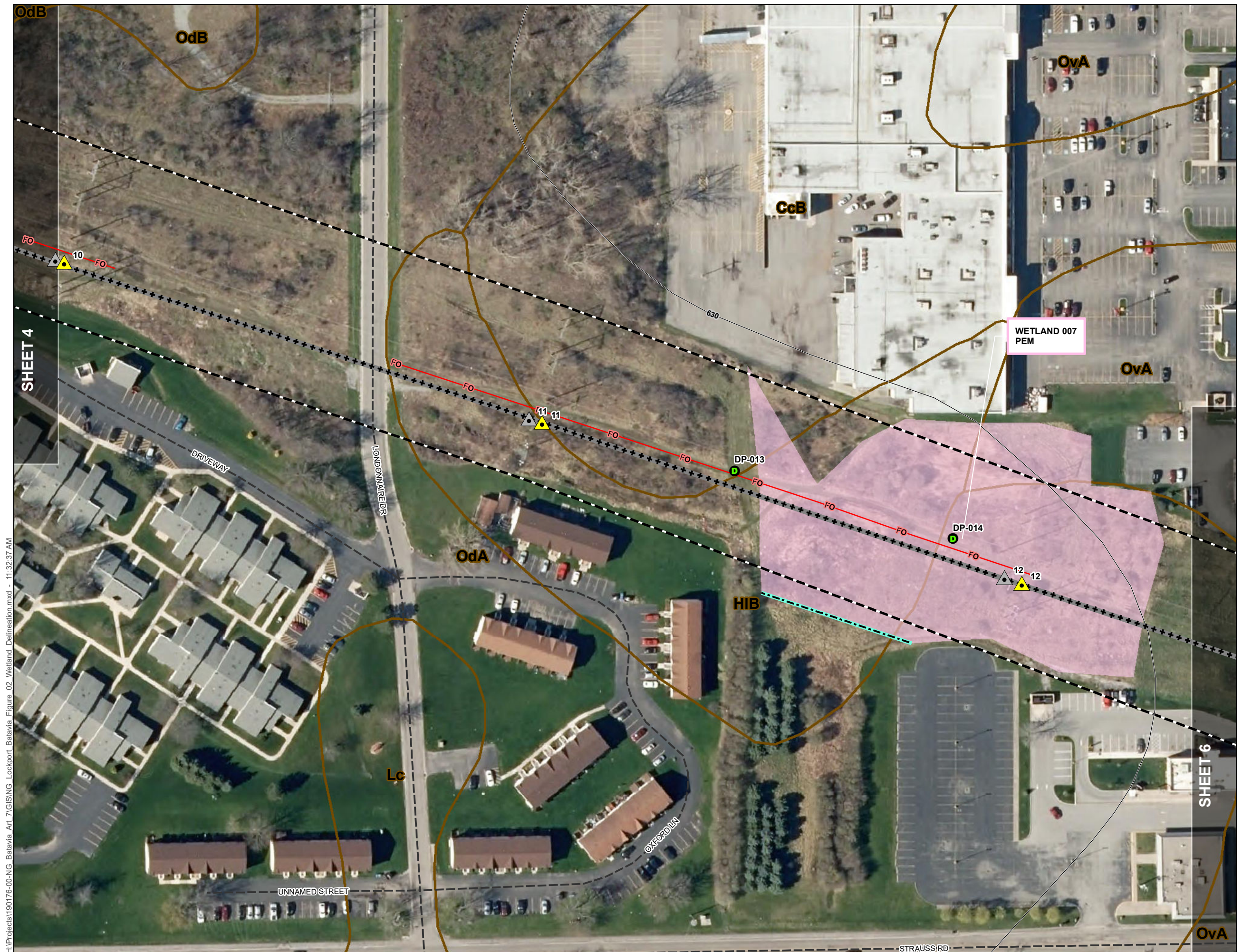
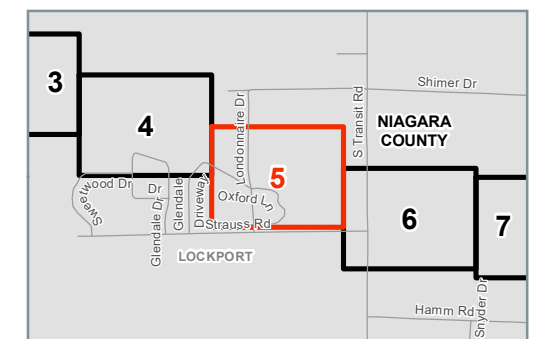


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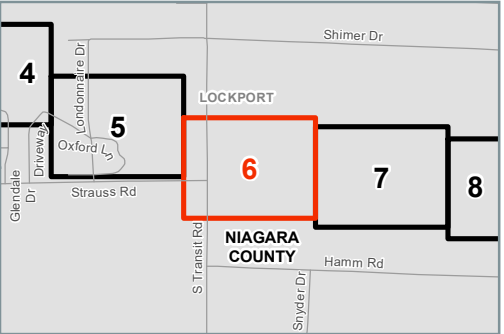


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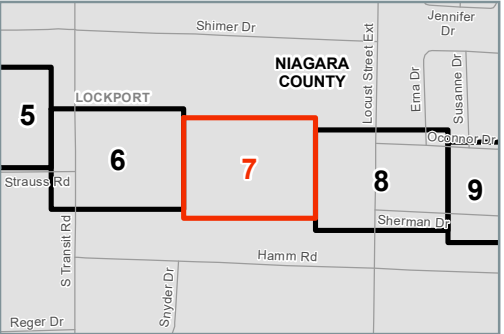


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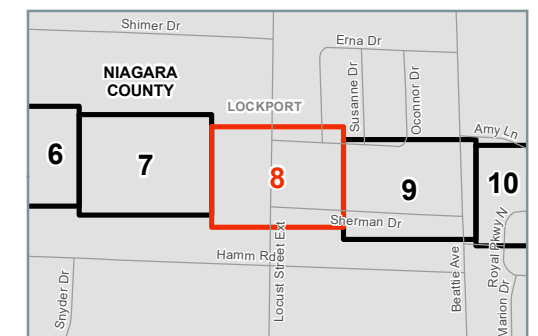
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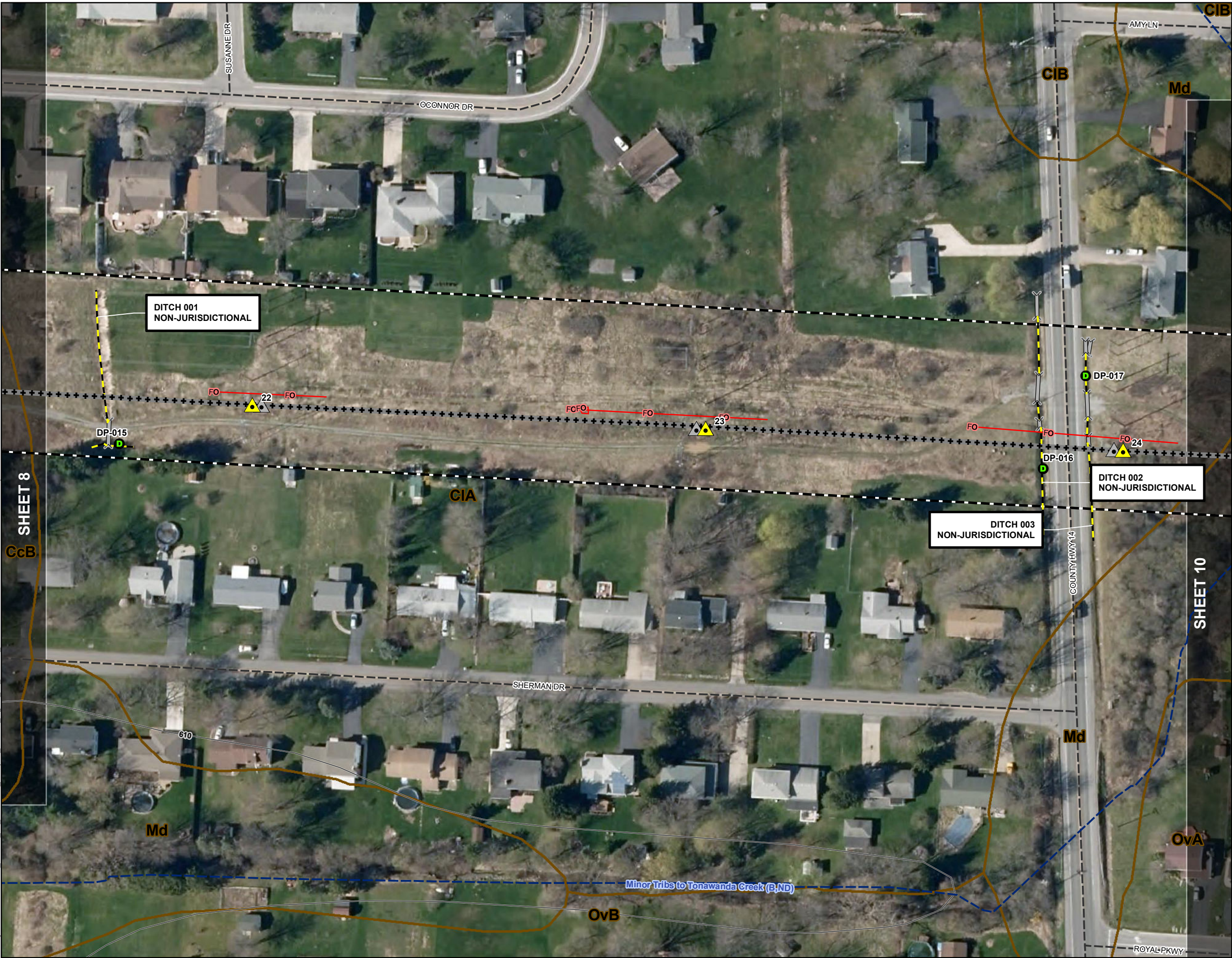
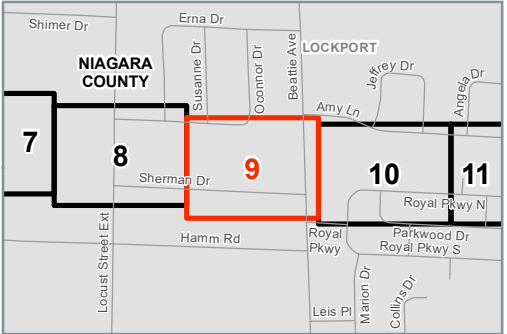
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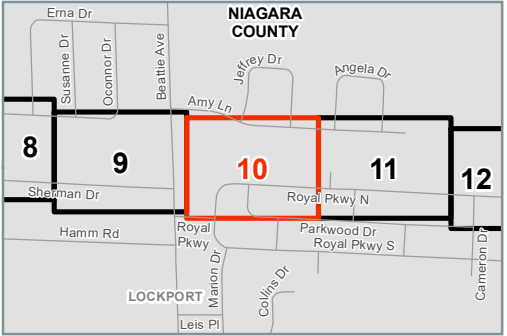
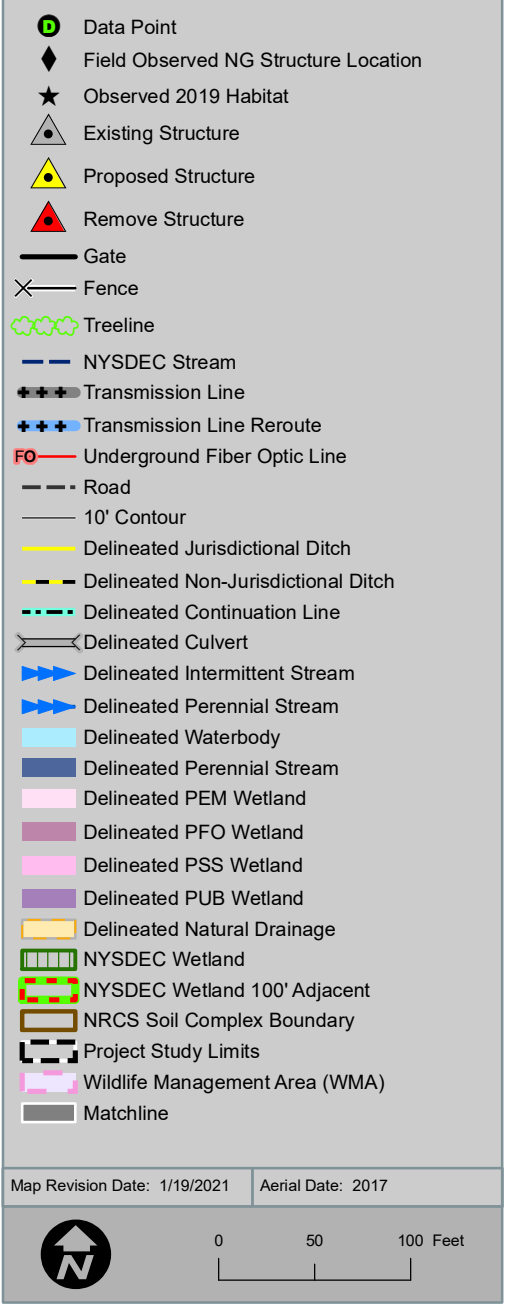
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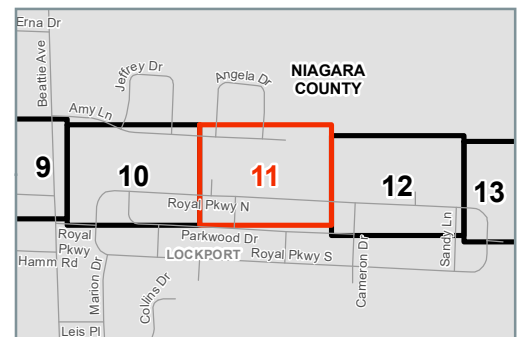
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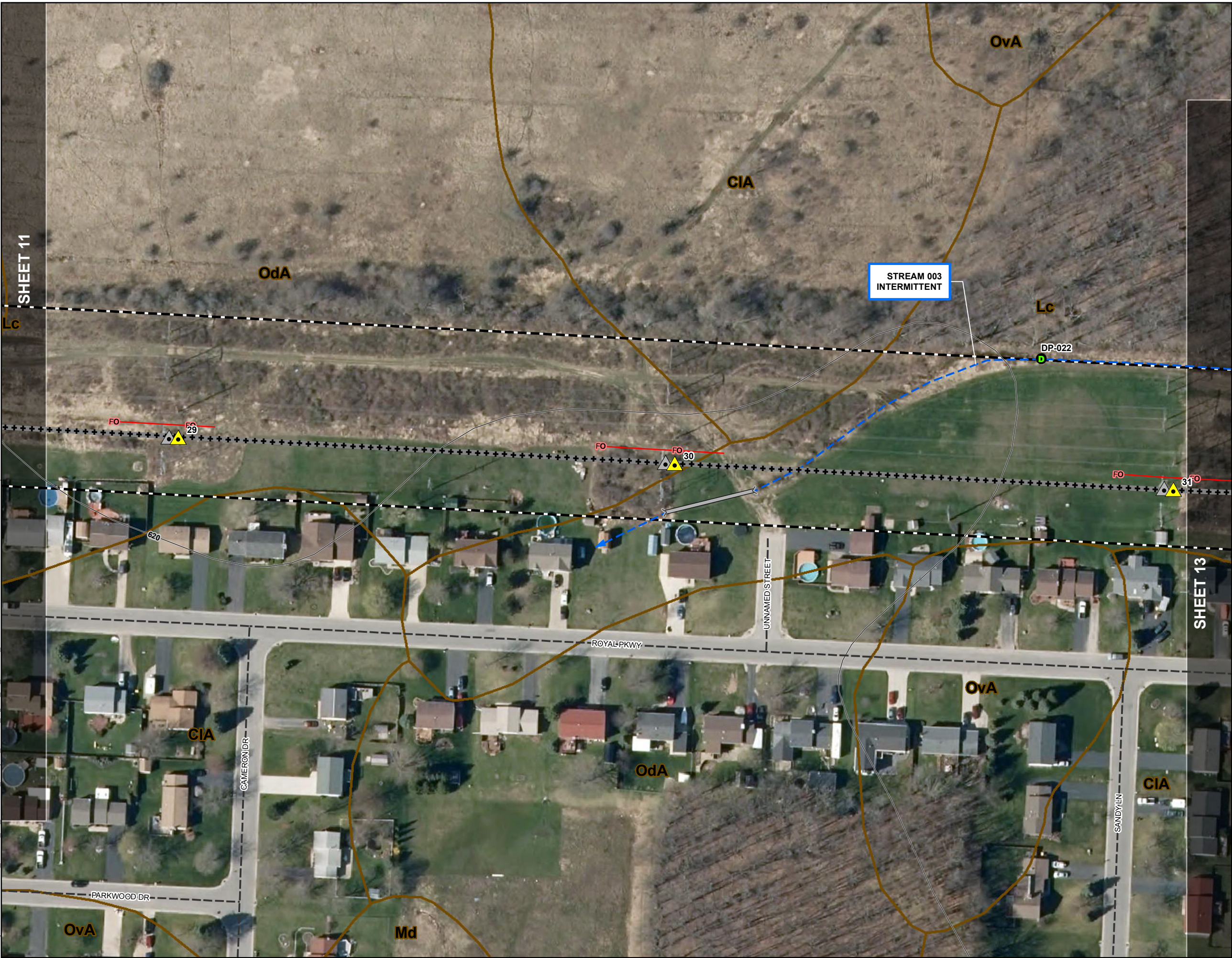


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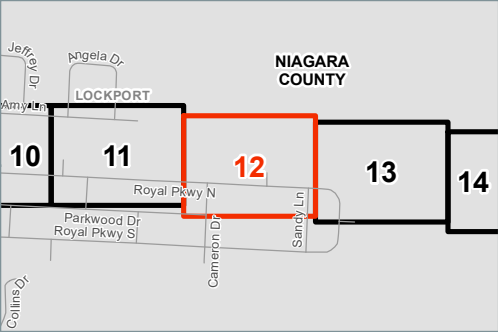
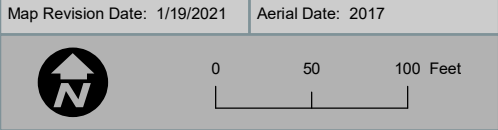


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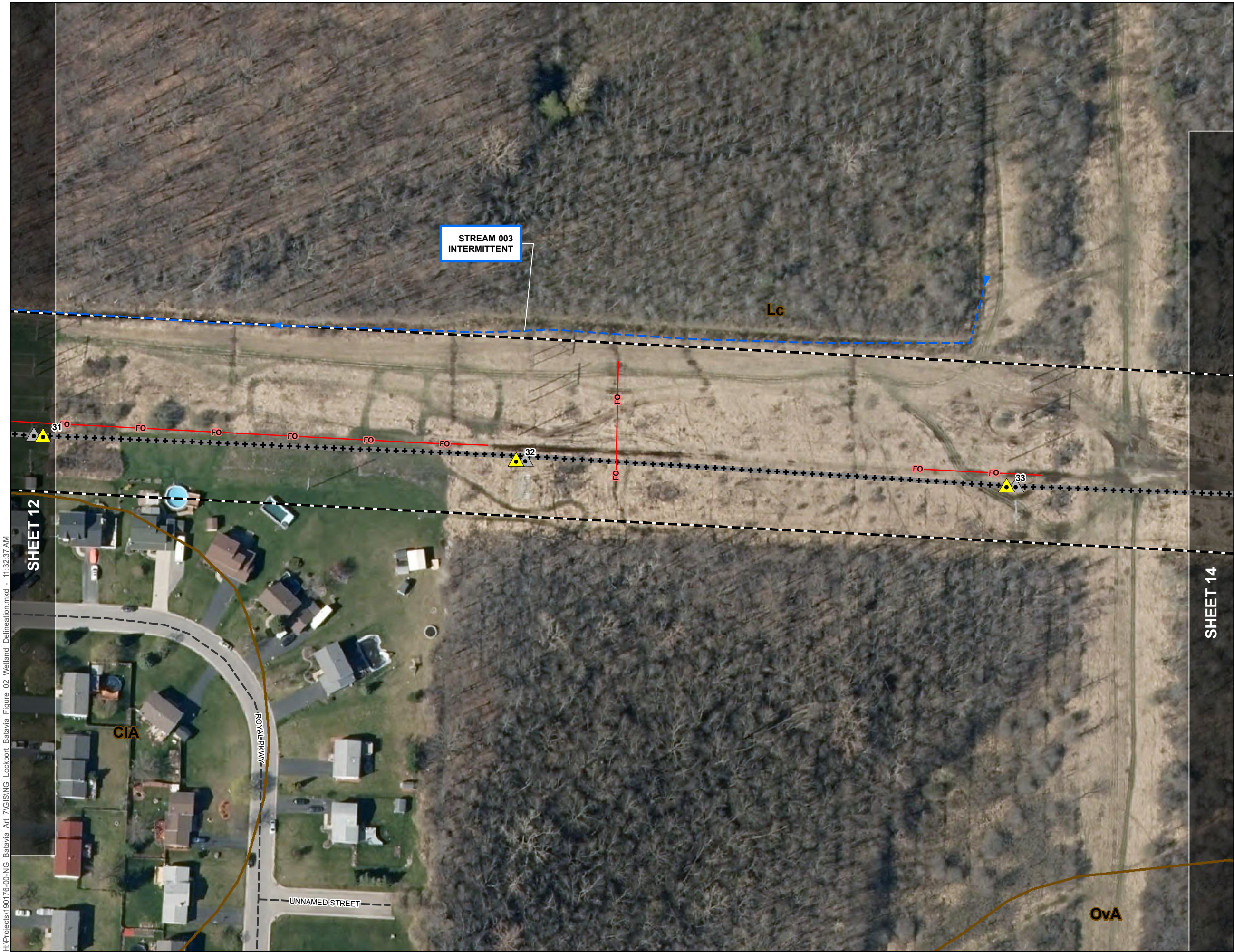
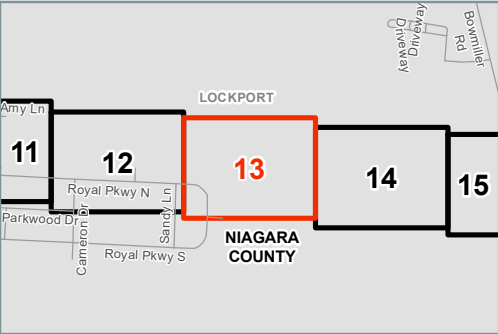
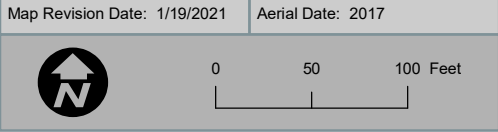


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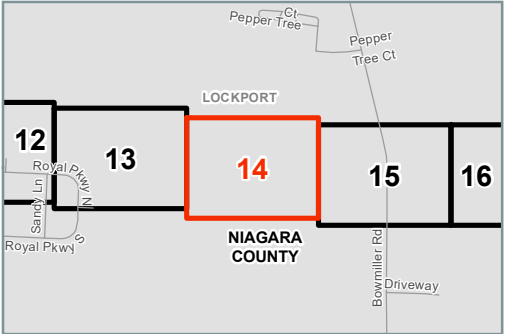
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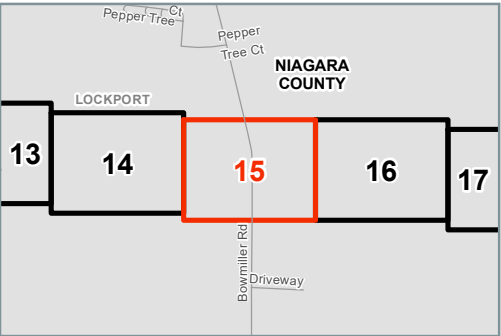


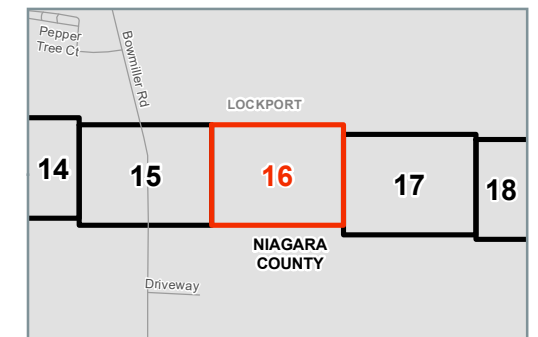
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LOCKPORT-BATAVIA #112 REBUILD PROJECT
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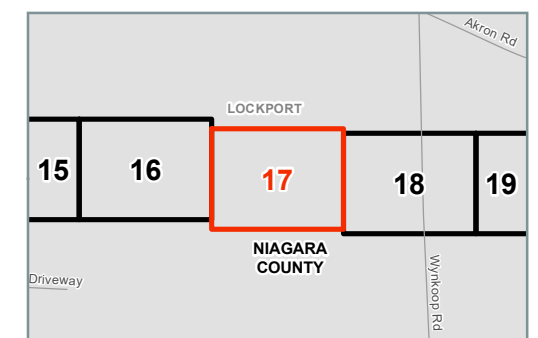
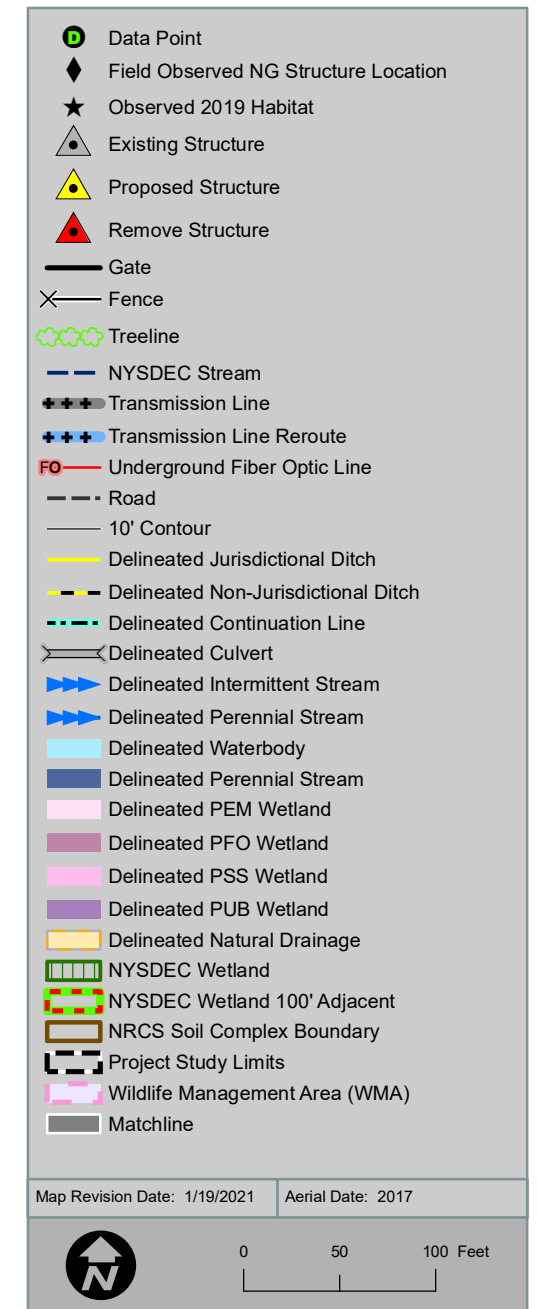
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**NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: WETLAND AND WATERCOURSE
DELINEATION MAP**



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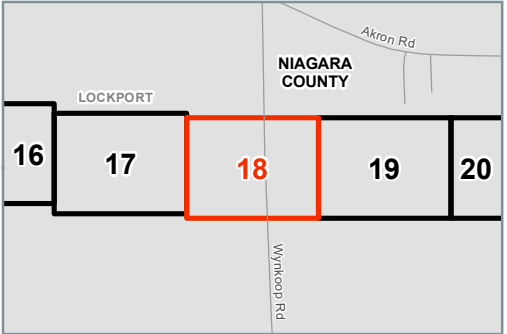


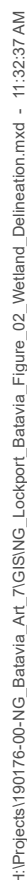
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-
- A map of Lockport, NY, showing the location of the Niagara County Courthouse. The map displays a grid of lots numbered 17 through 21. Lot 19 is highlighted with a red border. The map also shows the intersection of Akron Rd and Keck Rd, and the location of Wynton Rd and Oak Ln. The text "LOCKPORT" and "NIAGARA COUNTY" are visible on the map.


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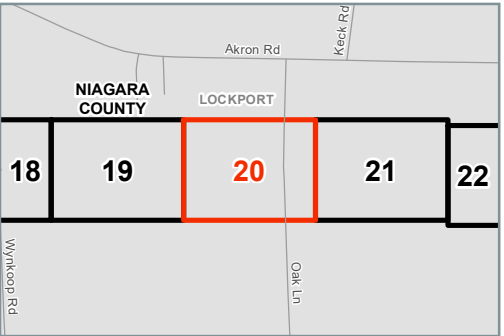


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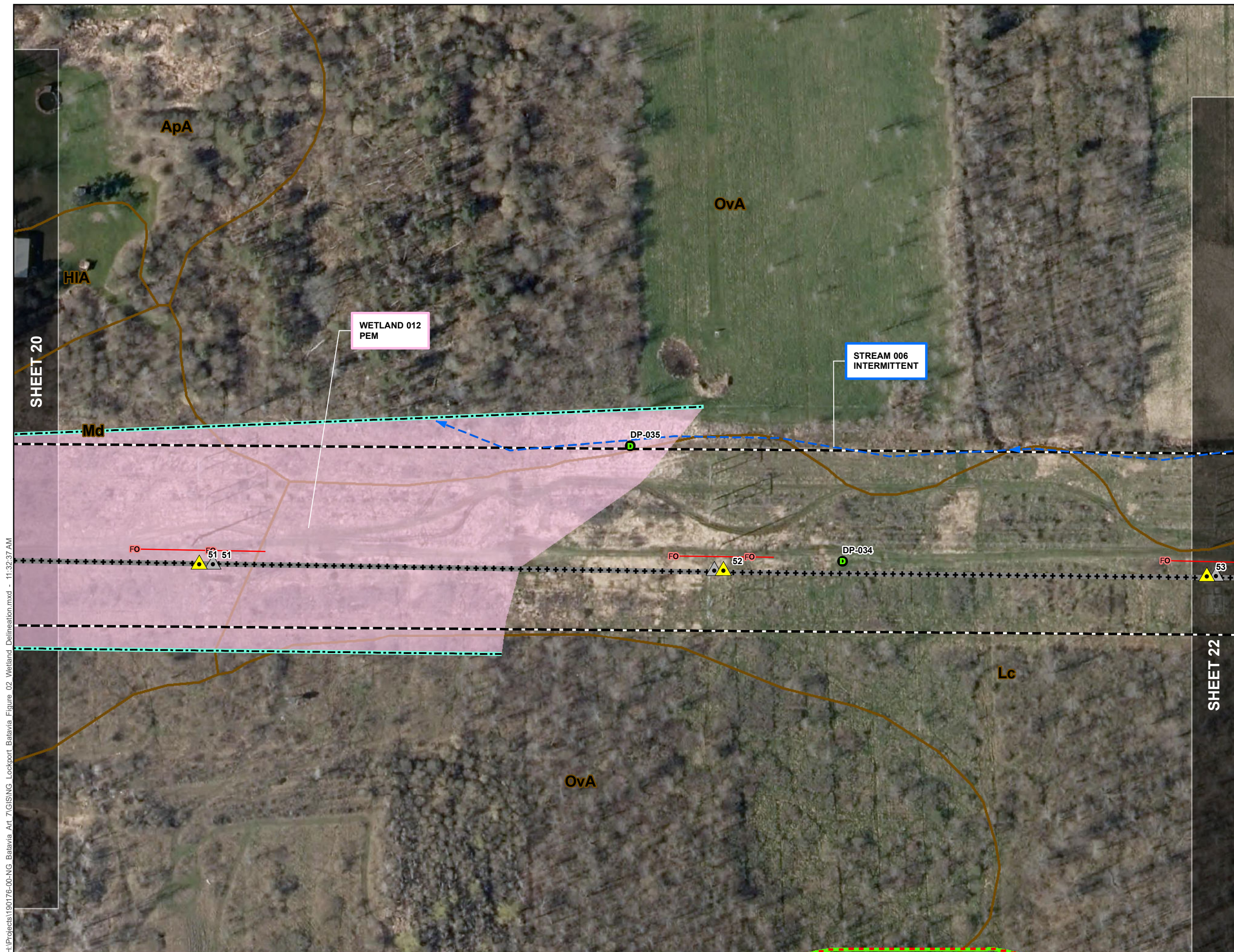
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- Matchline



































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

 0 50 100 Feet

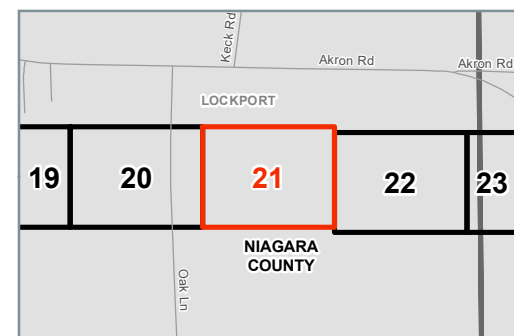
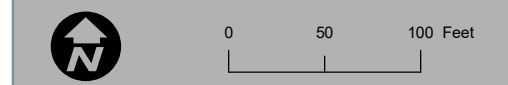


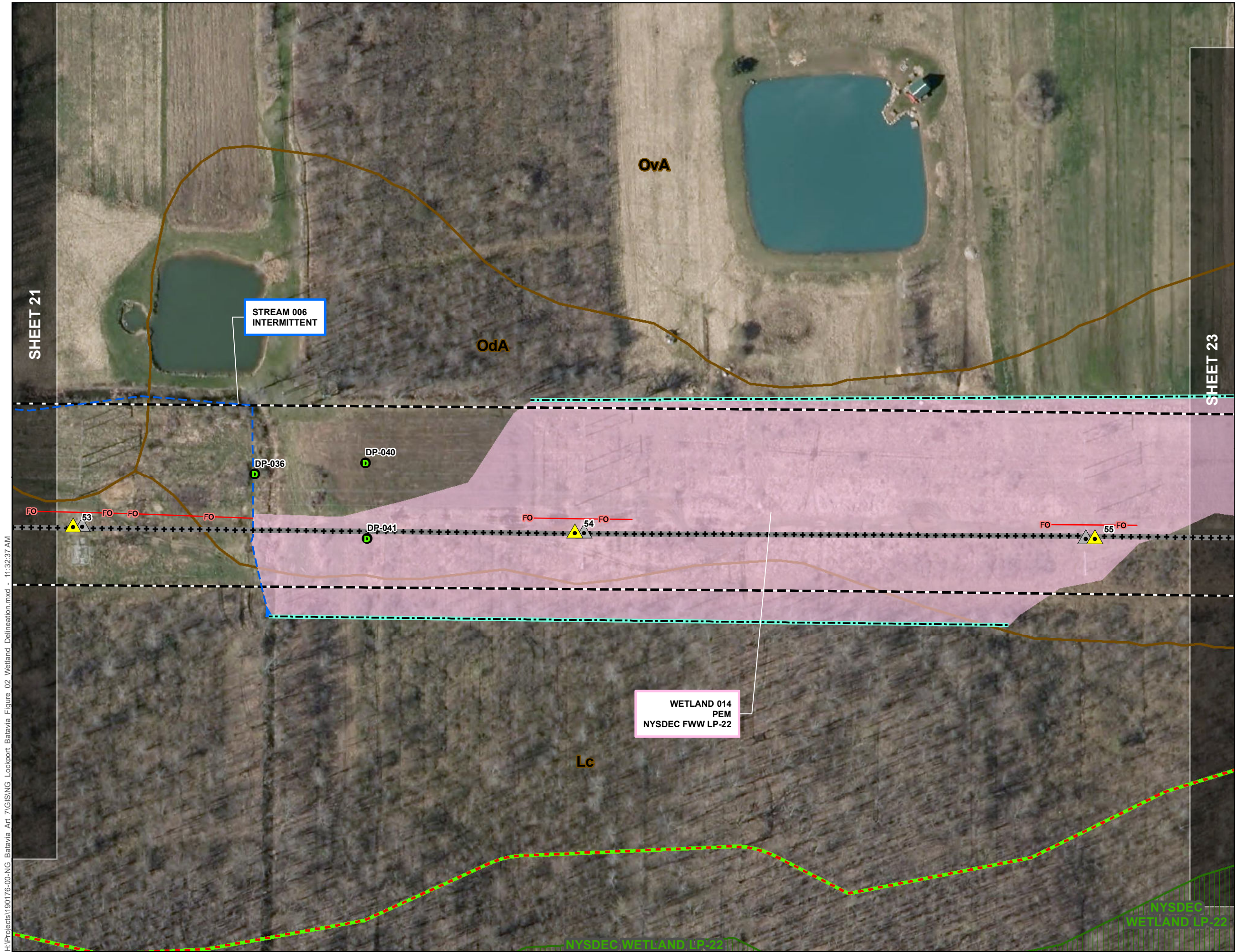
**NATIONAL GRID
LOCKPORT-BATAVIA #112 REBUILD PROJECT
FIGURE 2: WETLAND AND WATERCOURSE
DELINEATION MAP**



-  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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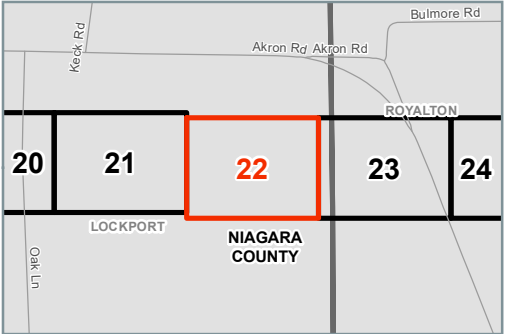




- Data Point
- ◆ Field Observed NG Structure Location
- ★ Observed 2019 Habitat
- ⬢ Existing Structure
- ▲ Proposed Structure
- ▲ Remove Structure
- Gate
- × Fence
- ⬢ Treeline
- NYSDEC Stream
- Transmission Line
- Transmission Line Reroute
- FO — Underground Fiber Optic Line
- Road
- 10' Contour
- Delineated 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

 0 50 100 Feet



TABLES

Table 1
Wetland Delineation Summary

Wetland ID	Map Sheet #	Associated Data Point #	Associated Photo #	Cowardin Classification	Presumed Federal / State Jurisdiction ²	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
								135,235	3.10	Ca	86
005	2	DP-009 & DP-010	15 thru 18	PEM	Federal & State (NYSDEC LP-33)	43.147011	-78.711786	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
								55,303	1.27	PsA	0
006	4	DP-011 & DP-012	19 thru 22	PEM	---	43.144911	-78.703301	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
								1,515	0.03	Md	82
010	19	DP-029 & DP-030	65 thru 68	PEM	---	43.140324	-78.635340	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

Table 1
Wetland Delineation Summary

Wetland ID	Map Sheet #	Associated Data Point #	Associated Photo #	Cowardin Classification	Presumed Federal / State Jurisdiction ²	Coordinates		Wetland Area within Study Limits		Soils		
						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				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)	43.140196	-78.597451	87,681	2.01	Lc	95	
								2,763	0.06	OdA	5	
								PEM	127,355	2.92	OdA	5
									4,827	0.11	OvA	4
018	27 thru 32	DP-054 & DP-055	120 thru 123	PEM	Federal & State (NYSDEC GA-21)	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	
019	36	DP-061 & DP-062	139 thru 142	PEM	Federal	43.139899	-78.557668	874	0.02	ApA	4	
								11,600	0.27	Lc	95	
								57,091	1.31	OdA	5	
								PEM	158,890	3.65	Lc	95
88,781	2.04	OdA	5									
021	41 & 42	DP-068 & DP-069	156 thru 159	PEM	---	43.141932	-78.530627	13,612	0.31	OdA	5	
022	86 & 87	DP-071 & DP-072	163 thru 166	PEM	State (John White WMA)	43.076192	-78.382543	62,009	1.42	OdA	5	
				PUB				30,177	0.69	SeB	0	
								7,885	0.18	W	0	
								666	0.02	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)	43.124258	-78.456573	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	ElB	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									

Table 1
Wetland Delineation Summary

Wetland ID	Map Sheet #	Associated Data Point #	Associated Photo #	Cowardin Classification	Presumed Federal / State Jurisdiction ²	Coordinates		Wetland Area within Study Limits		Soils		
						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	
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	7,354	0.17	Lc	95	
								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	
						Total		6,690,281	153.59			

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 ²	NYSDEC Classification ^{3,5,6,7}	NYSDEC Standard Designation ^{4,6}	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
														Total:	3,575

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
									Totals:	4,643

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 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>	Is the Sampled Area within a Wetland? 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>	If yes, optional Wetland Site ID: <u> </u>

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

Upland Data Point for Wetland 001.

HYDROLOGY

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

Field Observations:

Surface Water Present? Yes No x Depth (inches):

Water Table Present? Yes No x Depth (inches):

Saturation Present? Yes No x Depth (inches):
(includes capillary fringe)

Wetland Hydrology Present? Yes No x

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				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. <u>Flacagnus umbellata</u>	<u>5%</u>	<u>#</u>	<u>NZ</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>5%</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Centauria s. toaja</u>	<u>70%</u>	<u>#</u>	<u>NZ</u>	
2. <u>Colium perenne</u>	<u>20%</u>	<u>#</u>	<u>FACV</u>	
3. <u>Salidaga canadensis</u>	<u>20%</u>	<u>#</u>	<u>FACV</u>	
4. <u>Davens carota</u>	<u>15%</u>	<u>#</u>	<u>NZ</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>55</u> 105 = 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: 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 ≤3.0¹

___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:

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

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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.

Sampling Point: DP-001

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

Indicators for Problematic Hydric Soils³:

- | | | |
|--|---|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

Type: Rock
Depth (inches): 7"

Hydric Soil Present? Yes _____ No X

Dug Multiple Soil pits and couldn't get past 3". Hit Rock everytime.

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- Ovoid silt loam, limestone substratum, 0 to 3 percent slopes NWI classification: Not class. Gr. 1
 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL 001</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Sampled DP for Wetland 001</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <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)		<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 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)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>2"</u> Water Table Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0"</u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0"</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- 002

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>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Typha angustifolia</u>	<u>100%</u>	<u>Y</u>	<u>OBL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>100%</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: 1 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (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 ≤3.0¹
☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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 ☐

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

Sampling Point: DP-002

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

[illegible]¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, |
| <input type="checkbox"/> Histic Epipedon (A2) | MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils³:

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

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

Restrictive Layer (if observed):

Type: NLA

Depth (inches): N/A

Hydric Soil Present? Yes X No

Remarks:

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-6 Lat: 43.177800 Long: -78.718085 Datum: NAD '83
 Soil Map Unit Name: HA - Hutton & 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"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If yes, optional Wetland Site ID: _____
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland Data Point for Wetland 002</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)	
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)	
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)	
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)	
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)	
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)	
<input type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)	
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Geomorphic Position (D2)	
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)	
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input type="checkbox"/> Microtopographic Relief (D4)	
		<input type="checkbox"/> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Depth (inches): <u>-</u>	Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
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)			
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. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
		<u>0</u> = Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
		<u>0</u> = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Melilotus officinalis</u>	<u>60%</u>	<u>Y</u>	<u>FACU</u>	
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>NE</u>	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
11. _____				
12. _____				
		<u>100</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: 20 (A)
 Total Number of Dominant Species Across All Strata: 2 (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 ≤3.0¹
 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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 Anemone didn't have an indicator status so it was not included in total percent cover

Sampling Point: DP-C03

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

Type: Rock

Depth (inches): 6"

Hydric Soil Present? Yes _____ No ☒

Remarks:

Dug multiple soil pits but hit rock each time.

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: 43.177863 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-002</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>DEM, Data point for Wetland 002</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u>X</u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u>X</u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u>X</u> Algal Mat or Crust (B4)	<u>N/A</u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u>X</u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u>X</u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> Microtopographic Relief (D4)
		<u>X</u> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <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>		
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. _____	_____	_____	_____	Dominance Test worksheet: 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				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 = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Typha angustifolia</u>	<u>100%</u>	<u>Y</u>	<u>CBL</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
<u>100%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____				
Remarks: (Include photo numbers here or on a separate sheet.) 				

Sampling Point: DP-004

[illegible]

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Livingston 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>UL-003</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>DEM, Data point for Wetland 003</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u>X</u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Algal Mat or Crust (B4)	<u>alt</u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u>X</u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> Microtopographic Relief (D4)
		<u>X</u> FAC-Neutral Test (D5)
Field Observations:		
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? (includes capillary fringe) Yes <u> </u> No <u>Y</u> Depth (inches): <u> </u>	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. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
		<u>0</u> = Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____				
2. _____				
3. _____				
4. _____				
5. _____				
6. _____				
7. _____				
		<u>0</u> = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
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		
Woody Vine Stratum (Plot size: _____)				
1. _____				
2. _____				
3. _____				
4. _____				
		_____ = Total Cover		

Dominance Test worksheet:

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

Total Number of Dominant Species Across All Strata: 21 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (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 ≤3.0¹

☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

☐ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:

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

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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 ☐

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

Spotted knapweed does not have an indicator status therefore not included in the total cover.

Sampling Point: DP- 008

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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

Hydric Soil Present? Yes X No

Remarks:

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 - C. and 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> </u> No <u>X</u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	

Remarks: (Explain alternative procedures here or in a separate report.)
Upland point for wetland 03

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)		<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: 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> </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-007

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
				Dominance Test worksheet: 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)
				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: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input checked="" type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ 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 <u><input checked="" type="checkbox"/></u>
Remarks: (Include photo numbers here or on a separate sheet.) <div style="font-family: cursive; padding: 10px;"> Centaurea steeba has no indicator status so it was not included in total percent cover. There is no percent cover and Spotted Henocaulon being the only species, problematic veg. was used. Dotted Henocaulon is normally found in upland areas so veg. does not pass. </div>				

Sampling Point: DP- 67

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|---|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

Type: 2A Rack
Depth (inches): 8"

Hydric Soil Present? Yes _____ No X

Remarks:

Multiple pits were dug but rock was hit at least one around
8'

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: Cb-Canadaigua silt loam 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-004</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)	
Data Point for Wetland, PEM	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u>X</u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Algal Mat or Crust (B4)	<u>X</u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u>X</u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u>X</u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> Microtopographic Relief (D4)
		<u>X</u> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <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)		
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. _____	_____	_____	_____	Dominance Test worksheet: 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				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 = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u>)				
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				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.
Woody Vine Stratum (Plot size: <u>30'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____

Sampling Point: DP- 605

Northcentral and Northeast Region – Version 2.0

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: N.t. 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>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland for Wetland 009 + Wetland 005</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Algal Mat or Crust (B4)	<u>N/A</u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> Microtopographic Relief (D4)
		<u> </u> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u> </u> No <u>X</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)		
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	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>1</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
4. _____	_____	_____	_____	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 = _____
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
Herb Stratum (Plot size: <u>5'</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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.
1. <u>Centaurea stoebe</u>	<u>90%</u>	<u>-</u>	<u>NL</u>	
2. <u>Solidago canadensis</u>	<u>15%</u>	<u>Y</u>	<u>UP FACU</u>	
3. _____	_____	_____	_____	
Woody Vine Stratum (Plot size: <u>30'</u>)				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
Total Cover: <u>15%</u> = Total Cover				
Total Cover: <u>0</u> = Total Cover				

Remarks: (Include photo numbers here or on a separate sheet.)
Spotted Knigweerd does not have an indicator status and was not used in later percent cover.

Sampling Point: DP- 609

Northcentral and Northeast Region – Version 2.0

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 1/2
 Subregion (LRR or MLRA): LRR-L Lat: 43.147 256 Long: -78.712626 Datum: NAD '83
 Soil Map Unit Name: PdA- 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 <u> </u>	Is the Sampled Area within a Wetland? Yes <u>✓</u> No <u> </u>
Hydric Soil Present? Yes <u>✓</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-005</u>
Wetland Hydrology Present? Yes <u>✓</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)	
<u>PEM, Data point for WL-005, DEC wetland CP-23</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
<u>Primary Indicators (minimum of one is required; check all that apply)</u>		
<input checked="" type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input checked="" type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input checked="" type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <u>✓</u> No <u> </u> Depth (inches): <u>3"</u>		
Water Table Present? Yes <u>✓</u> No <u> </u> Depth (inches): <u>0"</u>		
Saturation Present? Yes <u>✓</u> No <u> </u> Depth (inches): <u>0"</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>✓</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- C10

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: 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				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 = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>d</u> = Total Cover				Hydrophytic Vegetation Indicators: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u>)				
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				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.
Woody Vine Stratum (Plot size: <u>30'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>d</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				Hydrophytic Vegetation Present? Yes <u>X</u> No _____

Sampling Point: DP-016

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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

Hydric Soil Present? Yes X No

Remarks:

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-011
 Investigator(s): James Ireland Section, Township, Range: Town of Lockport
 Landform (hillslope, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope (%): 1 1/2
 Subregion (LRR or MLRA): LAR-L Lat: 43.145063 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 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>	Is the Sampled Area within a Wetland?	Yes <u>X</u> No <u> </u>
Hydric Soil Present?	Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID:	<u>WL-006</u>
Wetland Hydrology Present?	Yes <u>X</u> No <u> </u>		
Remarks: (Explain alternative procedures here or in a separate report.)			
<u>Wetland point for Wetland 006, PEM</u>			

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			
<u>X</u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u>X</u> Surface Soil Cracks (B6)	
<u>X</u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)	
<u>X</u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)	
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)	
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)	
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)	
<u> </u> Algal Mat or Crust (B4)	<u>N/A</u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)	
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u>X</u> Geomorphic Position (D2)	
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)	
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> Microtopographic Relief (D4)	
		<u>X</u> FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present?	Yes <u>X</u> No <u> </u> Depth (inches): <u>2"</u>	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Water Table Present?	Yes <u>X</u> No <u> </u> Depth (inches): <u>3"</u>		
Saturation Present? (includes capillary fringe)	Yes <u>X</u> No <u> </u> Depth (inches): <u>0"</u>		
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. _____	_____	_____	_____	Dominance Test worksheet: 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				Prevalence Index worksheet: <table style="width: 100%;"> <tr> <td>Total % Cover of:</td> <td>Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> </table> Prevalence Index = B/A = _____	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)
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)																	
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				Hydrophytic Vegetation Indicators: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)														
1. _____	_____	_____	_____															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
5. _____	_____	_____	_____															
6. _____	_____	_____	_____															
_____ = Total Cover				¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.														
Herb Stratum (Plot size: <u>5'</u>)																		
1. <u>Lythrum 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. _____	_____	_____	_____															
_____ = Total Cover				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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.														
Woody Vine Stratum (Plot size: <u>30'</u>)																		
1. _____	_____	_____	_____															
2. _____	_____	_____	_____															
3. _____	_____	_____	_____															
4. _____	_____	_____	_____															
_____ = Total Cover																		
Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No _____																		

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

SOIL

Sampling Point: DP- 01

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

[illegible]

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, |
| <input type="checkbox"/> Histic Epipedon (A2) | MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (**LRR K, L, MLRA 149B**)
☐ Coast Prairie Redox (A16) (**LRR K, L, R**)
☐ 5 cm Mucky Peat or Peat (S3) (**LRR K, L, R**)
☐ Dark Surface (S7) (**LRR K, L, 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)

³Indicators 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 X No

Remarks:

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 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>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland point for Wetland 006</u>	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 012

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: 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				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 = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				Hydrophytic Vegetation Indicators: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>Centaurea stoebe</u>	<u>70%</u>	<u>-</u>	<u>NZ</u>	
2. <u>Solidago canadensis</u>	<u>20%</u>	<u>Y</u>	<u>FACU</u>	
3. <u>Solidago juncea</u>	<u>80%</u>	<u>-</u>	<u>NZ</u>	
4. <u>Rudbeckia hirta</u>	<u>15%</u>	<u>Y</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
<u>35%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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.
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.) <u>Spotted Broomrape & Early goldenrood do not have an indicator status therefore not included in total percent cover.</u>				Hydrophytic Vegetation Present? Yes _____ No <u>X</u>

Sampling Point: DP-12

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

Type: _____
Depth (inches): _____

Hydric Soil Present? Yes _____ No _____

Remarks:

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Wingham County Sampling Date: 08/21
 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-1 Lat: 43.143867 Long: -78.699591 Datum: NAD '83
 Soil Map Unit Name: CeB- Cayuga + Ca2mavin 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>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	
Upland Point for Wetland 007	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

 Sampling Point: DP- 013

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>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		<u>0</u> = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Coleum perenne</u>	<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		
Woody Vine Stratum (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)

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 ≤3.0¹
 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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

Sampling Point: DP-013

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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

Hydric Soil Present? Yes _____ No X

Remarks:

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 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-007</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Data Point for Wetland 007</u>	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <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)		<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 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)
Field Observations: Surface Water Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>1"</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-019

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: 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>4</u> = Total Cover				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 = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Cyrtus salicaria</u>	<u>60%</u>	<u>Y</u>	<u>OBL</u>	
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>OBL</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				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.
Woody Vine Stratum (Plot size: <u>30'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Sampling Point: DP-014

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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

Hydric Soil Present? Yes Y No

Remarks:

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-020
 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- Churchville silt loam- On 2 parent types 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>UL-008</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)	
Data Point for Wetland -008	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input checked="" type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u>X</u> No <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)		
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. _____	_____	_____	_____	
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>Fraxinus 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>100%</u>	<u>FACW</u>
2. <u>Lythrum salicaria</u>	<u>30%</u>	<u>Y</u>	<u>300%</u>	<u>OBL</u>
3. <u>Typha angustifolia</u>	<u>25%</u>	<u>Y</u>	<u>25%</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>100%</u>	<u>FAC</u>
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
		<u>35%</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: 6 (A)
 Total Number of Dominant Species Across All Strata: 6 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (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 ≤3.0¹
- ☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation¹ (Explain)
- ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:

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

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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 ☐

Sampling Point: DP-020

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

Type: N, A.

Depth (inches): _____

Hydric Soil Present? Yes ☒ No ☐

Northcentral and Northeast Region – Version 2.0

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/12/
 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.): Accum. mound 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 - Churchillville 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 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Opland data point for Wetland 008</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> Microtopographic Relief (D4)
		<u> </u> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>		
Water Table Present? Yes <u> </u> No <u>T</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>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- 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>-</u>	<u>NZ</u>	
2. <u>Phleum pratense</u>	<u>40%</u>	<u>Y</u>	<u>FACW</u>	
3. <u>Danvers 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 ≤3.0¹

___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:

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

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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.

Sampling Point: DP- 02/

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

Type: Compaction
Depth (inches): 12"

Hydric Soil Present? Yes _____ No X

US Army Corps of Engineers

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 1 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- Hilted 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 X 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 <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>✓</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-009</u>
Wetland Hydrology Present? Yes <u>✓</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>See Data point for Wetland 009</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
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- 026

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: 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		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 = _____
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		Hydrophytic Vegetation Indicators: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phragmites australis</u>	<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		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.
Woody Vine Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
		<u>0</u> = Total Cover		Hydrophytic Vegetation Present? Yes <u>X</u> No _____
Remarks: (Include photo numbers here or on a separate sheet.) 				

Sampling Point: DP- 026

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

Type: ROCKS
Depth (inches): 15"

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: 8/13/19
 Applicant/Owner: National Grid State: NY Sampling Point: DP-027
 Investigator(s): Johnny Lyndall / Bryan Nunez 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: 43.146252 Long: -78.630497 Datum: NAD '83
 Soil Map Unit Name: H1A - Hilted 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>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland Point for Wetland 009</u>	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

Sampling Point: DP- 037

Tree Stratum (Plot size: <u>3c'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. _____	_____	_____	_____	Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____	_____	_____	_____	Total Number of Dominant Species Across All Strata: <u>3</u> (B)
3. _____	_____	_____	_____	Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0%</u> (A/B)
4. _____	_____	_____	_____	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 = _____
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
Sapling/Shrub Stratum (Plot size: <u>15'</u>) 1. <u>Lonocera morrowii</u> <u>15%</u> <u>Y</u> <u>FACU</u> 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____				
Herb Stratum (Plot size: <u>5'</u>) 1. <u>Salidago canadensis</u> <u>80%</u> <u>Y</u> <u>FAC</u> 2. <u>Davals carota</u> <u>30%</u> <u>Y</u> <u>UPL</u> 3. <u>Poaceae Sp.</u> <u>50%</u> <u>-</u> <u>-</u> 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____ 11. _____ 12. _____				
Woody Vine Stratum (Plot size: <u>3c'</u>) 1. _____ 2. _____ 3. _____ 4. _____				
_____ = Total Cover _____ = Total Cover _____ = Total Cover _____ = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.) <u>Poaceae wasn't able to be identified down to species therefore not included in total percent cover</u>				Hydrophytic Vegetation Indicators: ___ 1 - Rapid Test for Hydrophytic Vegetation ___ 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 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 <u>X</u>

Sampling Point: DP- 026 7

Northcentral and Northeast Region – Version 2.0

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 Enland 1 Bigen Nemo 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: -78.635384 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 <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>UL-010</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>DEM, Wetland 010</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		<u>X</u> Surface Soil Cracks (B6)
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Drainage Patterns (B10)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Moss Trim Lines (B16)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Crayfish Burrows (C8)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u>X</u> Microtopographic Relief (D4)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)
Field Observations:		
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-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>)				
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>)				
1. <u>Diarymiles 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>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
		<u>140%</u> = Total Cover		
Woody Vine Stratum (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: 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 ≤3.0¹
☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:

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

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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 ☐

Sampling Point: DP- 029

Northcentral and Northeast Region – Version 2.0

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/13/17
 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 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>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland Data Point for Wetland 10</u>	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

 Sampling Point: DP- 030

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>Salix lasioides</u>	<u>5%</u>	<u>Y</u>	<u>FACW</u>	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		<u>5%</u> = Total Cover		

Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Phlox praeclara</u>	<u>70%</u>	<u>Y</u>	<u>FACU</u>	
2. <u>Centauria stoebe</u>	<u>40%</u>	<u>-</u>	<u>-</u>	
3. <u>Danica carolin</u>	<u>30%</u>	<u>Y</u>	<u>UPL</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. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
		<u>0</u> = Total Cover		

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

Centauria stoebe does not have an indicator status therefore not included in total percent 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 ≤3.0¹
- ☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
- ☐ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:

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

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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

Sampling Point: DP-030

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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: 8/13/12
 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 - Churchillville 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 <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland data point for Wetland 011</u>	

HYDROLOGY

Wetland Hydrology Indicators: <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) ___ Drainage Patterns (B10) ___ Moss Trim Lines (B16) ___ Dry-Season Water Table (C2) ___ Crayfish Burrows (C8) ___ Saturation Visible on Aerial Imagery (C9) ___ Stunted or Stressed Plants (D1) ___ Geomorphic Position (D2) ___ Shallow Aquitard (D3) ___ Microtopographic Relief (D4) ___ FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u>X</u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u>X</u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u>X</u> (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- 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>)				
1. <u>Aperycnem 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>)				
1. <u>Euthamia graminifolia</u>	<u>70%</u>	<u>X</u>	<u>FAC</u>	
2. <u>Poa sp.</u>	<u>10%</u>	<u>-</u>	<u>-</u>	
3. <u>Rhus 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>)				
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: 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 ≤3.0¹
 _____ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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

Sampling Point: DP- 031

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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: 8/13/19
 Applicant/Owner: National Grid State: NY Sampling Point: DP-032
 Investigator(s): Jimmy Ireland Section, Township, Range: Town of Lockport
 Landform (hillslope, terrace, etc.): Drainage way 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- 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>Y</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>Y</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-011</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>DEM, Wetland 011</u>	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

 Sampling Point: DP- 032

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>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		<u>0</u> = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Phragmites australis</u>	<u>50%</u>	<u>Y</u>	<u>FACW</u>	
2. <u>Lythrum salicaria</u>	<u>40%</u>	<u>Y</u>	<u>OBL</u>	
3. <u>Peltandra officinalis</u>	<u>15%</u>	<u>N</u>	<u>FACU</u>	
4. <u>Euthamia graminifolia</u>	<u>10%</u>	<u>N</u>	<u>FAC</u>	
5. <u>Rubus allegheniensis</u>	<u>10%</u>	<u>N</u>	<u>FACU</u>	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
		<u>125%</u> = Total Cover		
Woody Vine Stratum (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: 2 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (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 ≤3.0¹
☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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 X No _____

Sampling Point: DP- 32

Northcentral and Northeast Region – Version 2.0

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Madison Sampling Date: 8/13/19
 Applicant/Owner: National Grid State: NY Sampling Point: DP-039
 Investigator(s): Jimmy Teland 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: -78.624761 Datum: NAD '83
 Soil Map Unit Name: Lo. Lateral silty clay lam, on 3 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>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland Data Point for Wetland area</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> Microtopographic Relief (D4)
		<u> </u> FAC-Neutral Test (D5)
Field Observations:		
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- 034

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: 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. _____	_____	_____	_____	
		_____ = Total Cover		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 = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		_____ = Total Cover		Hydrophytic Vegetation Indicators: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Poaaceae spp</u>	<u>60%</u>	<u>-</u>	<u>-</u>	
2. <u>Euthamia gaeminiifolia</u>	<u>35%</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Eleocharis acicularis</u>	<u>20%</u>	<u>Y</u>	<u>FACW</u>	
4. <u>Dipsacus laciniatus</u>	<u>2%</u>	<u>Y</u>	<u>FACU</u>	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
		<u>75%</u> = Total Cover		Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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.
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.)

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

Hydrophytic Vegetation Present? Yes _____ No X

Sampling Point: DP-034

Northcentral and Northeast Region – Version 2.0

WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: NG Batavia-Lockport Article VII City/County: Niagara Sampling Date: 8/3/19
 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): LRD-L Lat: 43.140703 Long: -78.625633 Datum: NAD '83
 Soil Map Unit Name: OA- Ovoid silt loam, 0 to 2 percent 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-012</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Not part for Wetland 012</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		<u>X</u> Surface Soil Cracks (B6)
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u>X</u> Drainage Patterns (B10)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Moss Trim Lines (B16)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Crayfish Burrows (C8)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u>X</u> Geomorphic Position (D2)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Shallow Aquitard (D3)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u>X</u> Microtopographic Relief (D4)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u>X</u> FAC-Neutral Test (D5)
Field Observations:		
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-035

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	Dominance Test worksheet: 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				
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	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 = _____
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Typha angustifolia</u>	<u>95%</u>	<u>Y</u>	<u>OBL</u>	Hydrophytic Vegetation Indicators: <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 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. <u>Lythrum salicaria</u>	<u>15%</u>	<u>N</u>	<u>OBL</u>	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
<u>110%</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30'</u>)				
1. _____	_____	_____	_____	Hydrophytic Vegetation Present? Yes <u>X</u> No _____
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

Sampling Point: DP-035

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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

Hydric Soil Present? Yes ☒ No

US Army Corps of Engineers

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 Raydon
 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- Quid silt loam, 0 to 3 percent slopes NWI classification: Not class. for A
 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-017</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>PEM, Data Point for Wetland 013</u>	

HYDROLOGY

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

VEGETATION – Use scientific names of plants.

 Sampling Point: **DP- 038**

Tree Stratum (Plot size: <u>30'</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		ϕ = Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		ϕ = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Typha angustifolia</u>	<u>95%</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Phragmites australis</u>	<u>15%</u>	<u>N</u>	<u>FACW</u>	
3. <u>Mentha arvensis</u>	<u>10%</u>	<u>N</u>	<u>FACW</u>	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
9. _____	_____	_____	_____	
10. _____	_____	_____	_____	
11. _____	_____	_____	_____	
12. _____	_____	_____	_____	
		<u>100%</u> = Total Cover		
Woody Vine Stratum (Plot size: <u>30'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
		ϕ = 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)

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 ≤3.0¹
☐ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
☐ Problematic Hydrophytic Vegetation¹ (Explain)

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 ☐

Sampling Point: DP- 038

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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

Hydric Soil Present? Yes X No

Northcentral and Northeast Region – Version 2.0

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): Sunny Island Section, Township, Range: Town of Royalton
 Landform (hillslope, terrace, etc.): Hillslope Local relief (concave, convex, none): Convex Slope (%): 2%
 Subregion (LRR or MLRA): LRR-1 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 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>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	
Upland Data Point for Wetland 03	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> Microtopographic Relief (D4)
		<u> </u> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u> </u> No <u>X</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)		
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. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		<u>0</u> = Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		<u>0</u> = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Lolium perenne</u>	<u>80%</u>	<u>Y</u>	<u>FACU</u>	
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>)				
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: 2 (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 ≤3.0¹
 ___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 ___ Problematic Hydrophytic Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Definitions of Vegetation Strata:
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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

Sampling Point: DP- 039

Northcentral and Northeast Region – Version 2.0

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 Zeland 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 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>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u>
Hydric Soil Present? Yes <u> </u> No <u>X</u>	If yes, optional Wetland Site ID: <u> </u>
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>Upland for Wetland 014</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<u> </u> Surface Water (A1)	<u> </u> Water-Stained Leaves (B9)	<u> </u> Surface Soil Cracks (B6)
<u> </u> High Water Table (A2)	<u> </u> Aquatic Fauna (B13)	<u> </u> Drainage Patterns (B10)
<u> </u> Saturation (A3)	<u> </u> Marl Deposits (B15)	<u> </u> Moss Trim Lines (B16)
<u> </u> Water Marks (B1)	<u> </u> Hydrogen Sulfide Odor (C1)	<u> </u> Dry-Season Water Table (C2)
<u> </u> Sediment Deposits (B2)	<u> </u> Oxidized Rhizospheres on Living Roots (C3)	<u> </u> Crayfish Burrows (C8)
<u> </u> Drift Deposits (B3)	<u> </u> Presence of Reduced Iron (C4)	<u> </u> Saturation Visible on Aerial Imagery (C9)
<u> </u> Algal Mat or Crust (B4)	<u> </u> Recent Iron Reduction in Tilled Soils (C6)	<u> </u> Stunted or Stressed Plants (D1)
<u> </u> Iron Deposits (B5)	<u> </u> Thin Muck Surface (C7)	<u> </u> Geomorphic Position (D2)
<u> </u> Inundation Visible on Aerial Imagery (B7)	<u> </u> Other (Explain in Remarks)	<u> </u> Shallow Aquitard (D3)
<u> </u> Sparsely Vegetated Concave Surface (B8)		<u> </u> Microtopographic Relief (D4)
		<u> </u> FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u>	Wetland Hydrology Present? Yes <u> </u> No <u>X</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)		
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. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		<u>0</u> = Total Cover		
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
		<u>0</u> = Total Cover		
Herb Stratum (Plot size: <u>5'</u>)				
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>FACW</u>	
3. <u>Apeeynem 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		
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 ≤3.0¹

___ 4 - Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

___ Problematic Hydrophytic Vegetation¹ (Explain)

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

Definitions of Vegetation Strata:

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

Sapling/shrub – Woody plants less than 3 in. DBH and greater than 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.)

Sampling Point: DP- 40

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

[illegible]

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators:

- | | |
|---|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Depleted Matrix (F3) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input type="checkbox"/> Redox Dark Surface (F6) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input type="checkbox"/> Depleted Dark Surface (F7) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Redox Depressions (F8) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | |
| <input type="checkbox"/> Sandy Redox (S5) | |
| <input type="checkbox"/> Stripped Matrix (S6) | |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | |

Indicators for Problematic Hydric Soils³:

- ☐ 2 cm Muck (A10) (LRR K, L, MLRA 149B)
☐ Coast Prairie Redox (A16) (LRR K, L, R)
☐ 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
☐ Dark Surface (S7) (LRR K, L, 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)

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

Restrictive Layer (if observed):

Type: mlt

Depth (inches): N/A

Hydric Soil Present? Yes _____ No X

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. Mary 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>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	If yes, optional Wetland Site ID: <u>WL-019</u>
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.) <u>PER datapoint of Wetland 019.</u>	

HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Marl Deposits (B15)	<input type="checkbox"/> Moss Trim Lines (B16)
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Stunted or Stressed Plants (D1)
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Thin Muck Surface (C7)	<input checked="" type="checkbox"/> Geomorphic Position (D2)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)		<input checked="" type="checkbox"/> Microtopographic Relief (D4)
		<input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations:		
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. _____	_____	_____	_____	Dominance Test worksheet: 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				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 = _____
Sapling/Shrub Stratum (Plot size: <u>15'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
<u>0</u> = Total Cover				Hydrophytic Vegetation Indicators: <input checked="" type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% ___ 3 - Prevalence Index is ≤3.0 ¹ ___ 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) ___ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Herb Stratum (Plot size: <u>5'</u>)				
1. <u>Cyrtus salicaria</u>	<u>50%</u>	<u>Y</u>	<u>OBL</u>	
2. <u>Euthamia graminifolia</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				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.
Woody Vine Stratum (Plot size: <u>30'</u>)				
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
<u>0</u> = Total Cover				
Hydrophytic Vegetation Present? Yes <u>X</u> No _____				
Remarks: (Include photo numbers here or on a separate sheet.) 				

Sampling Point: DP-04

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

Indicators for Problematic Hydric Soils³:

- | | | |
|---|--|--|
| <input type="checkbox"/> Histosol (A1) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR R, MLRA 149B) | <input type="checkbox"/> 2 cm Muck (A10) (LRR K, L, MLRA 149B) |
| <input type="checkbox"/> Histic Epipedon (A2) | | <input type="checkbox"/> Coast Prairie Redox (A16) (LRR K, L, R) |
| <input type="checkbox"/> Black Histic (A3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR R, MLRA 149B) | <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) |
| <input type="checkbox"/> Hydrogen Sulfide (A4) | <input type="checkbox"/> Loamy Mucky Mineral (F1) (LRR K, L) | <input type="checkbox"/> Dark Surface (S7) (LRR K, L, M) |
| <input type="checkbox"/> Stratified Layers (A5) | <input type="checkbox"/> Loamy Gleyed Matrix (F2) | <input type="checkbox"/> Polyvalue Below Surface (S8) (LRR K, L) |
| <input type="checkbox"/> Depleted Below Dark Surface (A11) | <input checked="" type="checkbox"/> Depleted Matrix (F3) | <input type="checkbox"/> Thin Dark Surface (S9) (LRR K, L) |
| <input type="checkbox"/> Thick Dark Surface (A12) | <input checked="" type="checkbox"/> Redox Dark Surface (F6) | <input type="checkbox"/> Iron-Manganese Masses (F12) (LRR K, L, R) |
| <input type="checkbox"/> Sandy Mucky Mineral (S1) | <input type="checkbox"/> Depleted Dark Surface (F7) | <input type="checkbox"/> Piedmont Floodplain Soils (F19) (MLRA 149B) |
| <input type="checkbox"/> Sandy Gleyed Matrix (S4) | <input type="checkbox"/> Redox Depressions (F8) | <input type="checkbox"/> Mesic Spodic (TA6) (MLRA 144A, 145, 149B) |
| <input type="checkbox"/> Sandy Redox (S5) | | <input type="checkbox"/> Red Parent Material (F21) |
| <input type="checkbox"/> Stripped Matrix (S6) | | <input type="checkbox"/> Very Shallow Dark Surface (TF12) |
| <input type="checkbox"/> Dark Surface (S7) (LRR R, MLRA 149B) | | <input type="checkbox"/> Other (Explain in Remarks) |

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

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

Hydric Soil Present? Yes ☒ No ☐

Remarks:

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: Clay 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° - 1/43%
 Right: 65° - 1/43%

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: Niagara River 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>24'</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 - Vegetated 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. Goldensrod, P. Loosetrife

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

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: Niagara 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	<u>4</u>	<u>2</u>	<u>4</u>
Top of Bank	<u>6</u>	<u>23</u>	<u>6</u>

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: 8/12/19 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" ~~18"~~ inches
 Wetted Perimeter Width: 6' ~~3'~~ feet
 Flow/Gradient Direction: South

Geomorphologic Characteristics

Primary Substrate Class: S:L

	Width (ft.)		
	at DP	Min	Max
OHWB	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