# Federal Wetland Delineation Report

**for**

# S. Youngs Rd. Site

**Town of Amherst Erie County New York**

*Prepared for:*

Napierala Consulting
110 Fayette St
Manlius, NY 13104

Client: Rod Ives

Landowner: 669 Youngs Road LLC

*Prepared by:*

BME ASSOCIATES
ENGINEERS • SURVEYORS • LANDSCAPE ARCHITECTS

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Fairport, NY 14450
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BME Project No. 2089-173

August 2023

## TABLE OF CONTENTS



## Appendices

## INTRODUCTION

Napierala Consulting contracted BME Associates (BME) to examine and delineate wetlands on a ± 27.9-acre area of interest located west of S. Youngs Rd in the Town of Amherst, Erie County, New York (Appendix A, Exhibit 1). The site includes tax parcel number 81.03-5-20. The proposed development for the site will be for the construction of a commercial development which will not be federally funded under the Bipartisan Infrastructure Law. **A Combined Approved and Preliminary Jurisdictional Determination is requested for the subject site.**

The presence and location of wetlands and streams were determined using methods established in the 1987 *Corps of Engineers Wetland Delineation Manual*, *2012 Northeast Regional Supplement*, *2018 Field Indicators of Hydric Soils in the United States*, and other appropriate guidelines. The results of the delineation study are contained in this report.

## AGENCY RESOURCE INFORMATION

Prior to initiating the field wetland delineation study, BME reviewed the following background information:

- GIS Aerial Photo of the Site (Exhibit 1) – The site consists of undeveloped land including natural forest cover and successional field. The surrounding land use is mainly commercial and residential.

- The U.S. Geological Survey (USGS) Lancaster Quadrangle 7.5-minute topographic series was used to determine possible drainage patterns and the presence of streams and other water bodies (Exhibit 2). The USGS map indicates that the site is sloped in the southwestern direction. The USGS topographic map shows wetland symbols throughout most of the site. A perennial stream (Ellicott Creek) is shown along the southwestern boundary of the site.

- The U.S. Fish and Wildlife Service National Wetlands Inventory (NWI) map was used to locate any mapped Federal wetlands or streams on the site (Exhibit 3). The NWI map shows two wetlands, classified as PSS1E AND PFO1/SS1E. Additionally, a perennial stream classified as R2UBH is shown to run along the southwestern boundary of the site.

- The New York State Department of Environmental Conservation (NYSDEC) Environmental Resource Mapper was used to determine the presence of any mapped NYSDEC wetlands on the project site (Exhibit 4). The resource mapper does not show any mapped state wetlands on site; however, it does show a Class B stream along the southwestern boundary of the site.

- The Natural Resource Conservation Service Web Soil Survey was used to locate any hydric soils, or soils with potential hydric inclusions within the project site (Exhibit 5). The soil map indicates the presence of the following soils within the AOI (Area of Interest):

| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|---|---|---|---|---|
| CgB | Cazenovia silt loam, 3 to 8 percent slopes | 0 | 4.7 | 16.8% |
| OvA | Ovid silt loam, 0 to 3 percent slopes | 5 | 23.1 | 82.5% |
| W | Water | 0 | 0.2 | 0.7% |
| **Totals for Area of Interest** | | | 27.9 | **100.0%** |

## METHODOLOGY

BME conducted the federal wetland delineation for the site according to methods described in the 1987 *U.S. Army Corps of Engineers Wetlands Delineation Manual*, and the *2012 North Central and Northeast Region Supplement*. Atypical Situation methods were not utilized. The *2018 U.S. Army Corps of Engineers, National Wetland Plant List* was utilized for wetland indicator status while the *USDA, NRCS Field Indicators of Hydric Soils in the United States* was utilized for hydric soil identification. A general survey of the site was conducted to determine the presence of waters of the U.S. and potential wetland areas. Where potential wetlands were found, pairs of sample points were established to document soil and hydrological conditions in both the upland and wetland communities. A pair of sample points were taken at the wetlands, along with additional upland sampling points to support the location and extent of any wetlands. Site hydrology was evaluated by looking for and noting wetland hydrology indicators. Soils were evaluated by comparing soils taken from the sample sites with the *Munsell Soil Color Charts* (X-Rite Incorporated, Revised 2009), as well as evaluating additional hydric soil indicators. Soils were tested along wetland boundaries to aid in determining accurate wetland limits.

At each data sampling location, a list of dominant plants was documented and the percent cover for each species was estimated. Generally, a 5-foot radius from the sampling point was used to define herbaceous plants within the plant community, a 30-foot radius was used to define trees and woody vines, and a 15-foot radius to define shrubs and saplings. The "dominance measure methods" outlined in the *1987 Federal Delineation Manual* (Federal Interagency Committee for Wetland Delineation 1987) and the *2012 Northcentral and Northeast Region Supplement* were used to determine the presence of wetland vegetation while the *2018 U.S. Army Corps of Engineers National Wetland Plant List* was utilized for plant identification and determination of wetland plant indicator status.

Sample point locations and wetland boundaries were marked in the field by flags for identification by GPS equipment. The field survey of wetland points was completed by BME Associates. All delineated wetland boundaries and sample point locations are shown in Exhibit 6, and site photograph locations are shown in Exhibit 7 in Appendix A. Site photographs can be found in Appendix B, and data forms can be found in Appendix C.

## SITE ECOLOGY

The upland plant communities on the site include successional forest (successional southern hardwood forest), and successional field. The on-site wetland plant community consists of an emergent wetland (shallow emergent marsh).

### Successional Southern Hardwood Forest

The majority of upland areas on site are dominated by early successional species. Common tree and shrub species within these areas include black walnut (*Juglans nigra*), box elder (*Acer negundo*), black locust (*Robinia pseudoacacia*), hawthorns (*Crataegus spp.*), multiflora rose (*Rosa multiflora*), black raspberry (*Rubus occidentalis*), and honeysuckles (*Lonicera spp.*). Grasses and forbs that dominate these areas include timothy (*Phleum pratense*), Kentucky bluegrass (*Poa pratense*), white snakeroot (*Ageratina altissima*), thistle (*Cirsium spp.*), and black swallow-wort (*Cynanchum nigrum*).

### Successional Field

The open field areas on site are dominated primarily by grasses and forbs with some upland shrub species. Common shrub species within these areas include multiflora rose (*Rosa multiflora*), black raspberry (*Rubus occidentalis*), and honeysuckles (*Lonicera spp.*). Grasses and

forbs that dominate these areas include timothy (*Phleum pratense*), Kentucky bluegrass (*Poa pratense*), white snakeroot (*Ageratina altissima*), thistle (*Cirsium spp.*), spotted knapweed (*Centaurea stoebe*), and black swallow-wort (*Cynanchum nigrum*).

**Shallow Emergent Marsh**

Wetland A is best characterized as a shallow emergent marsh. This wetland is vegetated with white cutgrass (*Leersia virginica)*, moneywort (*Lysimachia nummularia*), Gray's sedge (*Carex grayi*), grass-leaved goldenrod (*Euthamia graminifolia*), yellow flag iris (*Iris pseudacorus*), common rush *(Juncus effusus*), and horsetail (*Equisetum arvense*).

## WATER RESOURCE DESCRIPTIONS

The site includes one (1) delineated wetland, one (1) stream, and one (1) swale (see Exhibit 6).

Table 1. Water Resource Summary

| Name | Identification | Size (within site) | OHWM Dimensions | Flow Regime | Latitude and Longitude |
|---|---|---|---|---|---|
| Wetland A | PEM | 0.05 AC | - | - | 42.947266, -78.727813 |
| Stream A | - | ± 1,819 LF | ± 40-60' wide, ± 5-10' deep | Perennial | 42.947104, -78.728831 |
| Swale A | - | ± 876 LF | ± 5-10' wide, 2-5' deep | Ephemeral | 42.948630, -78.730210 |

**SITE WETLANDS:**

Wetland A (Area = ± 0.05 AC)

Wetland A is a linear floodplain wetland located in the southeastern portion of the site. This wetland is shown on the National Wetlands Inventory as a PFO1/SS1E wetland but is best classified as a PEM wetland. Soils are mapped as Ovid silt loam, 0 to 3 percent slopes with a hydric rating of 5. Wetland A appears to receive most of its hydrology from runoff from surrounding upland areas. However, it does appear that at one point in time that Wetland A received hydrology from Stream A via Swale A, likely during storm events or high-water events. There was saturation noted throughout Wetland A during the site visit. The dominant vegetation

in this wetland includes black willow (*Salix nigra*), white cutgrass (*Leersia virginica*), moneywort (*Lysimachia nummularia*), grass-leaved goldenrod (*Euthamia graminifolia*), Gray's sedge (*Carex grayi*), horsetail (*Equisetum arvense*), yellow flag iris (*iris pseudacorus*), and common rush (*Juncus effusus*).

**SITE STREAMS:**

Stream A (±1,819 LF)

Stream A runs along the southwestern boundary of the site. This stream originates off-site and exhibits a perennial flow regime. The northeastern bank of Stream A is severely undercut and eroded in many areas. The stream bank on the southwestern side of Stream A is much lower than the northeastern bank and likely receives the brunt of floodwaters from Stream A. The ordinary high-water mark (OHWM) of Stream A varies in dimension from ± 5-15' deep and ± 30-80' wide.

Swale A (±876 LF)

Swale A is in the northwestern portion of the area of interest. This swale is ± 876 LF and varies in width from ±4-6'. This swale can be characterized as ephemeral as it appears to flow periodically throughout the year, likely receiving water from surrounding upland areas. Swale A is perched approximately 10-15' above Stream A. Stream A appears to have overflowed to Swale A at one point in time during high water or storm events. However, with the high elevation of the northeastern bank of Stream A it is uncertain if Stream A could still convey flow to Swale A. This swale is vegetated with wetland and upland species and does not display any hydric soil indicators.

## CONCLUSIONS

Within the area of interest, one (1) wetland was identified, and field delineated by BME Associates based on the presence of all three parameters for federal jurisdictional wetlands (Appendix A, Exhibit 6). Furthermore, one (1) stream and one (1) swale were observed, and their flow regimes evaluated. Based on our field observations, Swale A and Wetland A do not appear to receive water from Stream A (Ellicott Creek) and therefore may be non-jurisdictional, subject to USACE final determination. On behalf of Rod Ives and Napierala Consulting, BME

Associates is requesting a Combined Approved and Preliminary Jurisdictional Determination for the subject site.

## REFERENCES


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- U.S Army Corps of Engineers 2018. National Wetland Plant List, Version 3.4


**BME Wetland Field Delineators**

Abigail Ludgate

# APPENDIX A
## Exhibits 1 – 7

**Exhibit 1 – Aerial Site Location Map**

**Exhibit 2 – USGS Quadrangle**

**Exhibit 3 – USFWS National Wetlands Inventory**

**Exhibit 4 – NYSDEC Environmental Resource Mapper**

**Exhibit 5 – NRCS Soil Survey**

**Exhibit 6 – Aerial Wetland Delineation Map**

**Exhibits 7 – Photo Location Map**


Site Boundary

150 0 75 150

Graphic Scale

P:\2089-173\Drawings\Final\2089-173 Wetland Exhibits Base.dwg

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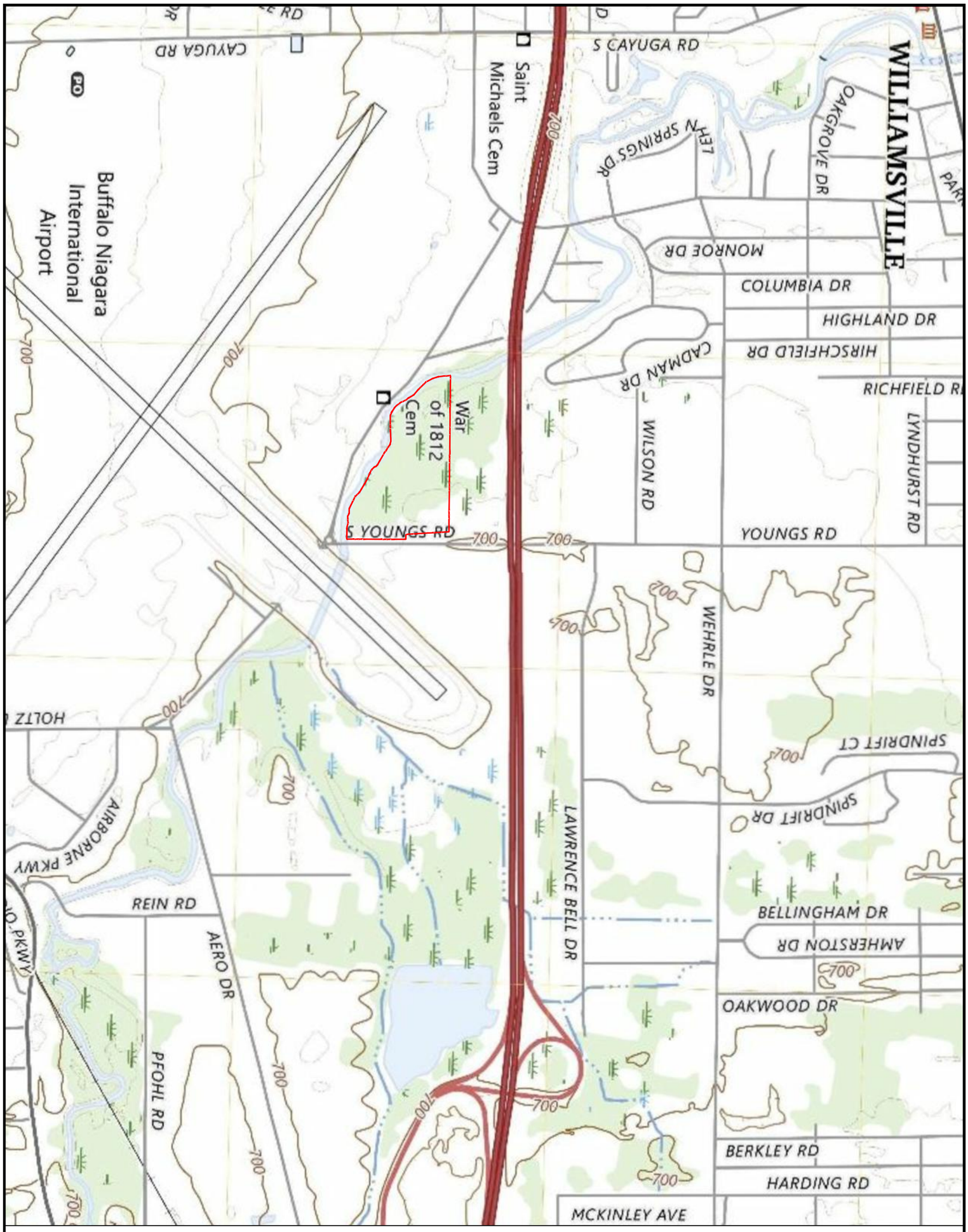
Scale:
1"=150'

S. Youngs Rd.
Aerial Site Location Map
Town of Amherst, Erie County, New York

Date: 08/21/2023
Project Number:
XXXX




Site Boundary

1000 0 500 1000

Graphic Scale

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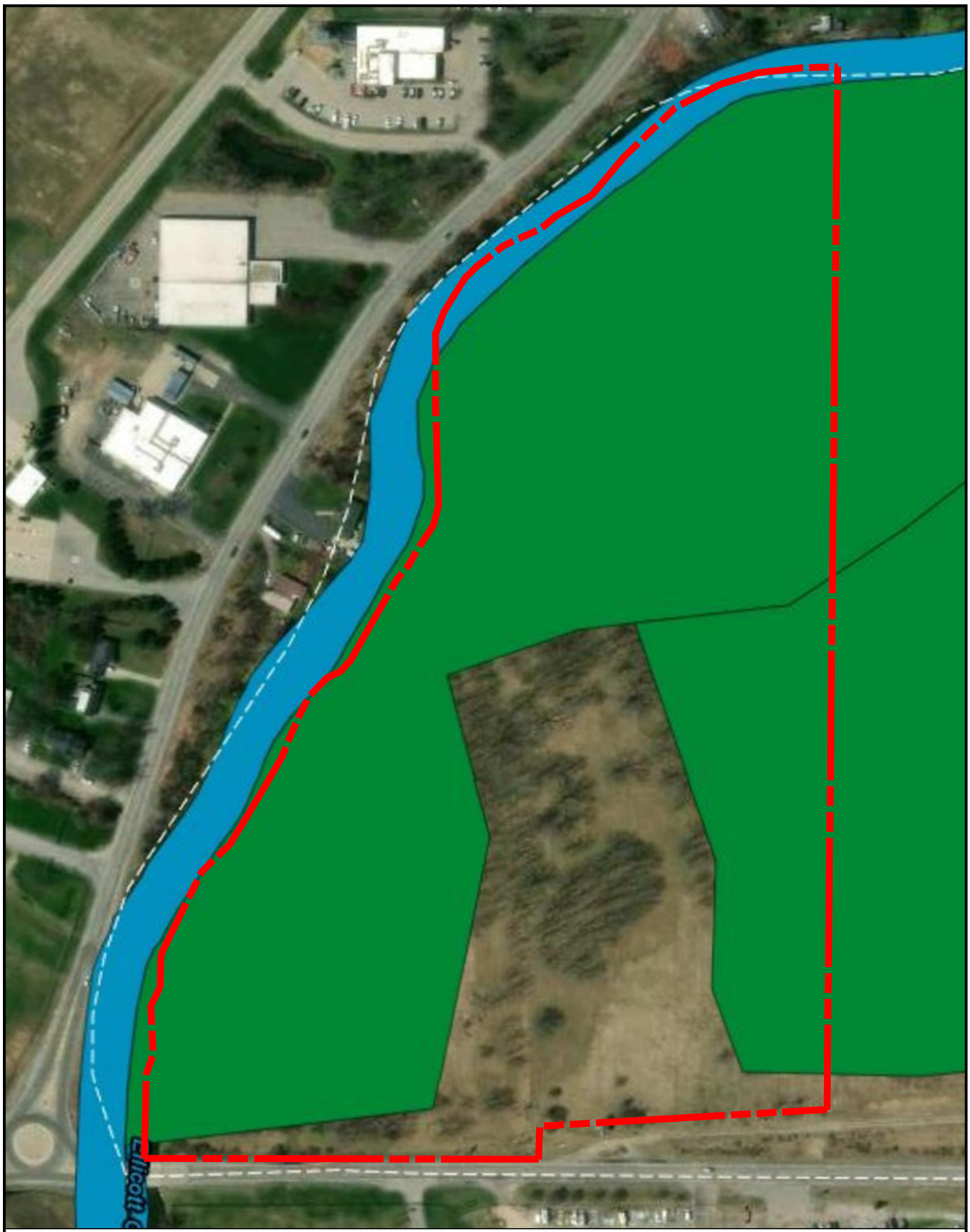
Scale: 1"=1000'

S. Youngs Rd.
USGS Quadrangle Map, Lancaster Quad
Town of Amherst, Erie County, New York

Date: 08/21/2023
Project Number: XXXX



Site Boundary

150 0 75 150

Graphic Scale

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Scale:
1"=150'

S. Youngs Rd.
USFWS National Wetlands Inventory
Town of Amherst, Erie County, New York

Date: 08/21/2023
Project Number:
XXXX


Site Boundary

150 0 75 150

Graphic Scale

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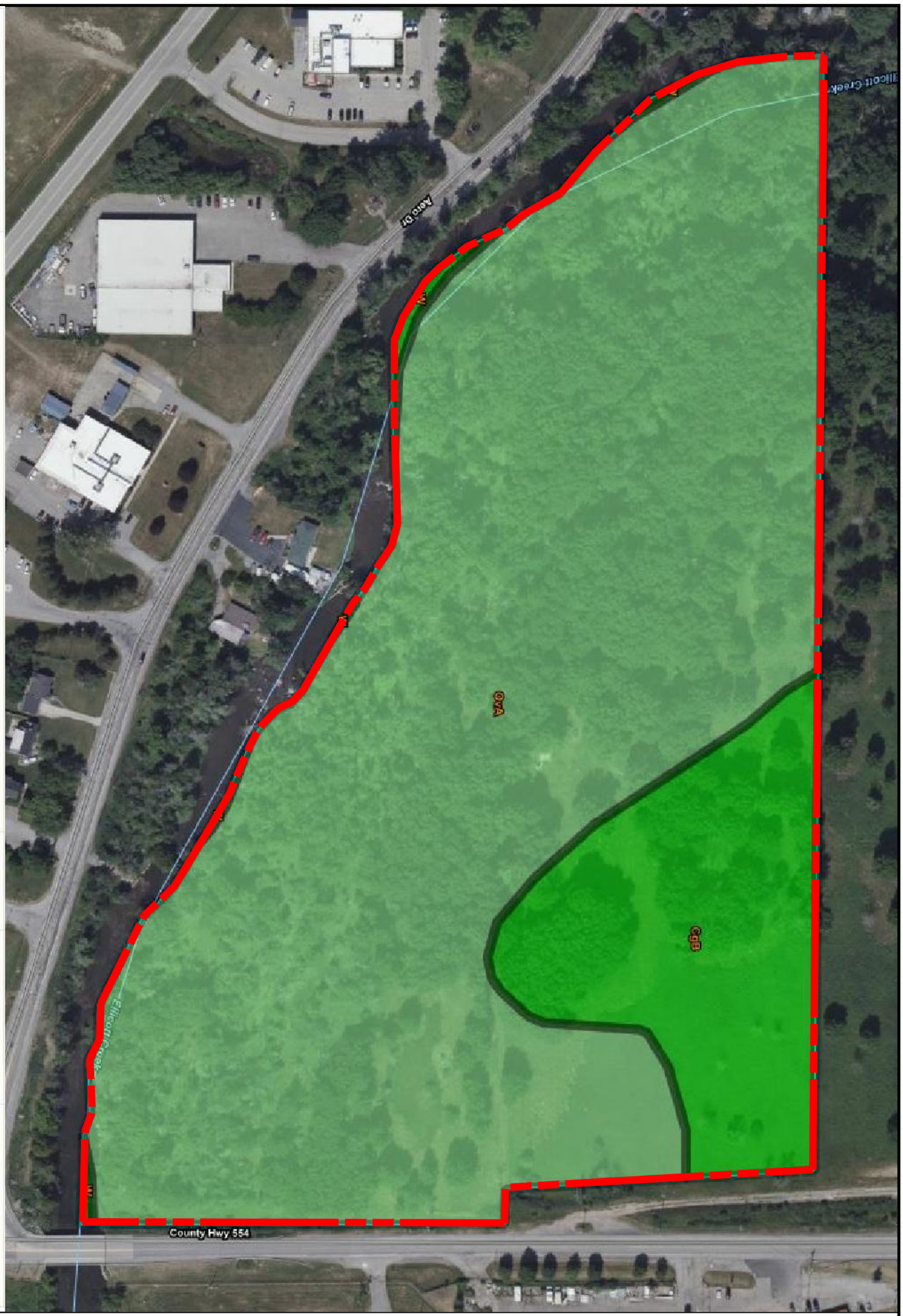
Scale:
1"=150'

S. Youngs Rd.
NYSDEC Environmental Resource Mapper
Town of Amherst, Erie County, New York

Date: 08/21/2023
Project Number:
XXXX




| Map unit symbol | Map unit name | Rating | Acres in AOI | Percent of AOI |
|---|---|---|---|---|
| CgB | Cazenovia silt loam, 3 to 8 percent slopes | 0 | 4.7 | 16.8% |
| OvA | Ovid silt loam, 0 to 3 percent slopes | 5 | 23.1 | 82.5% |
| W | Water | 0 | 0.2 | 0.7% |
| **Totals for Area of Interest** | | | **27.9** | **100.0%** |

Site Boundary

150 0 75 150

Graphic Scale

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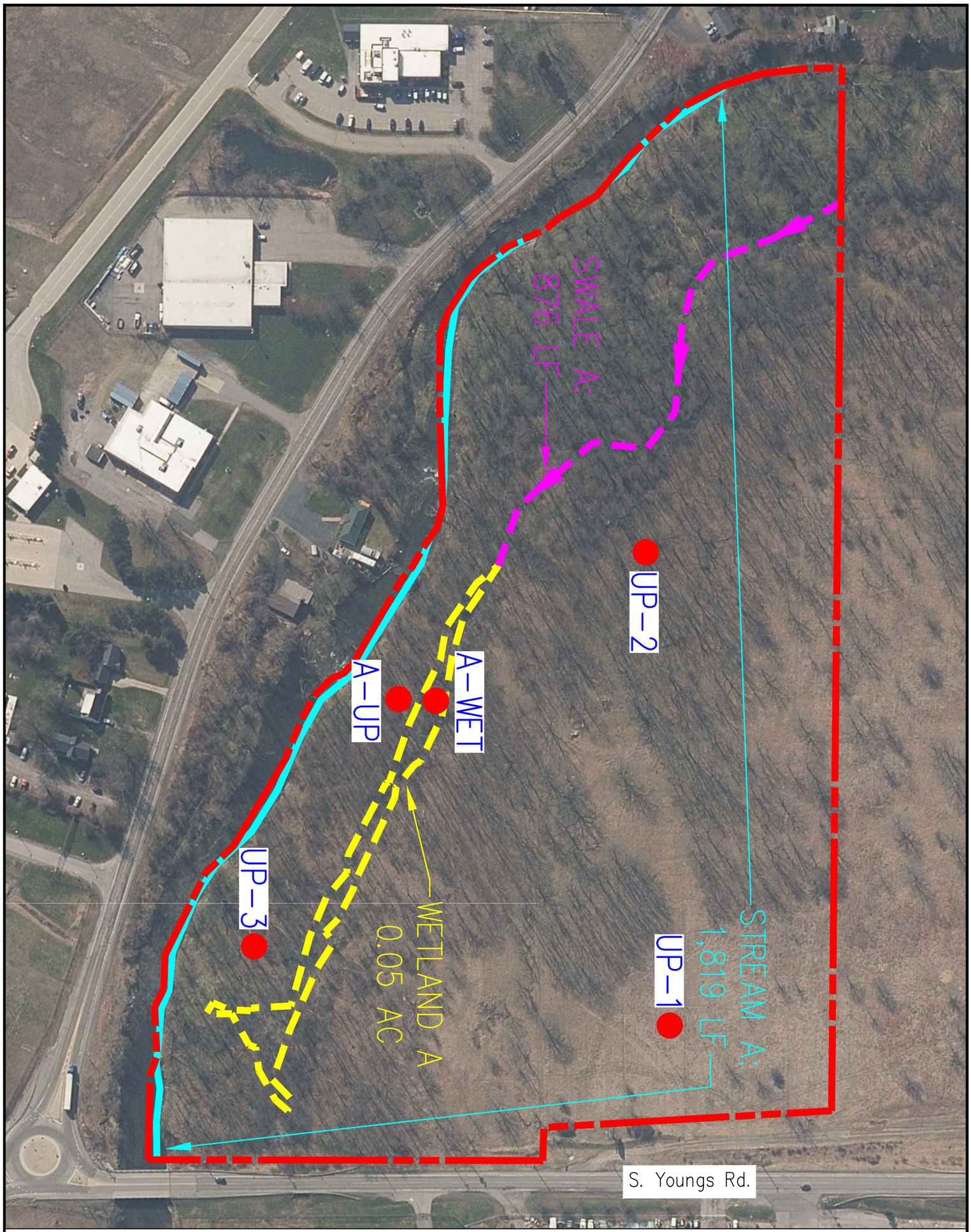
Scale: 1"=150'

S. Youngs Rd.
NRCS Web Soil Survey
Town of Amherst, Erie County, New York

Date: 08/21/2023
Project Number: XXXX




Site Boundary

Delineated Wetland

Perennial Stream

Swale

Data Sampling Point

150 0 75 150

Graphic Scale

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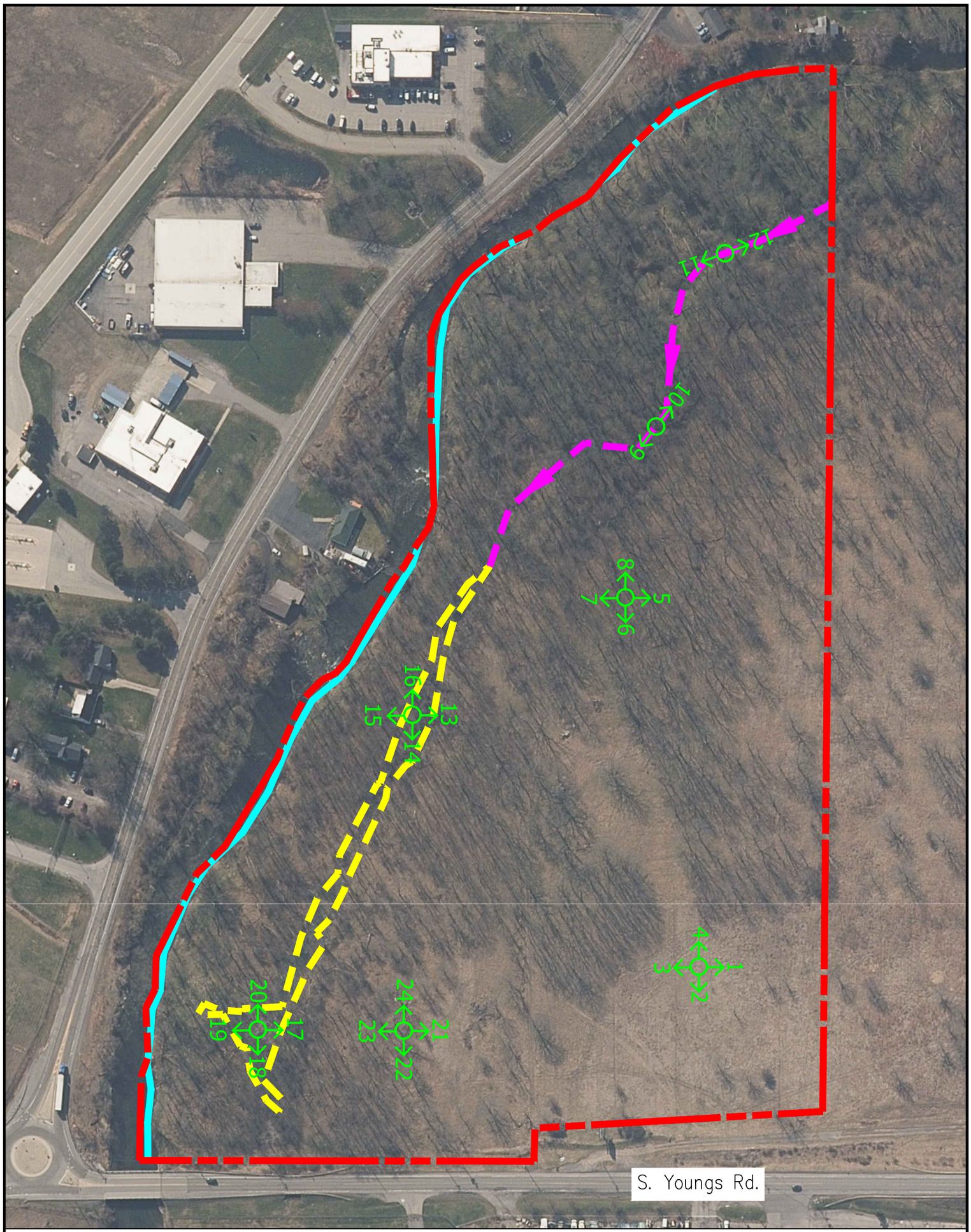
Scale:
1"=150'

S. Youngs Rd
Aerial Wetland Delineation Exhibit
Town of Amherst, Erie County, New York

Date: 08/21/2023
Project Number:
XXXX




Site Boundary

Delineated Wetland

Perennial Stream

Swale

Photo Locations

Graphic Scale 150 0 75 150

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Scale: 1"=150'

S. Youngs Rd.
Photo Location Map
Town of Amherst, Erie County, New York

Date: 08/21/2023
Project Number: XXXX

# APPENDIX B
## Site Photographs

# S. Youngs Rd. Site Photos

Photo 1: Upland, facing north.

Photo 2: Upland, facing east.

# S. Youngs Rd. Site Photos

Photo 3: Upland, facing south.

Photo 4: Upland, facing west.

# S. Youngs Rd. Site Photos

Photo 5: Upland, facing north.

Photo 6: Upland, facing east.

# S. Youngs Rd. Site Photos

Photo 7: Upland, facing south.

Photo 8: Upland, facing west.

# S. Youngs Rd. Site Photos

Photo 9: Swale A, facing southeast.

Photo 10: Swale A, facing northwest.

# S. Youngs Rd. Site Photos

Photo 11: Swale A, facing southeast.

Photo 12: Swale A, facing northwest.

# S. Youngs Rd. Site Photos

Photo 13: Wetland A, facing north.

Photo 14: Wetland A, facing east.

# S. Youngs Rd. Site Photos

Photo 15: Wetland A, facing south.

Photo 16: Wetland A, facing west.

# S. Youngs Rd. Site Photos

Photo 17: Wetland A, facing north.

Photo 18: Wetland A, facing east.

# S. Youngs Rd. Site Photos

Photo 19: Wetland A, facing south.

Photo 20: Wetland A, facing west.

# S. Youngs Rd. Site Photos

Photo 21: Upland, facing north.

Photo 22: Upland, facing east.

# S. Youngs Rd. Site Photos

Photo 23: Upland, facing south.

Photo 24: Upland, facing west.

# APPENDIX C
## Data Forms

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: S. Youngs Rd City/County: Amherst/ Erie Sampling Date: 8/16/23

Applicant/Owner: Rod Ives, Napierala Consulting State: NY Sampling Point: A-WET

Investigator(s): AL Section, Township, Range: Town of Amherst

Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): concave Slope %: 2

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.947208 Long: -78.727553 Datum: NAD83

Soil Map Unit Name: OvA NWI classification: PFO1/SS1E

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

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

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

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

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes X | No ____ | **Is the Sampled Area** |
| Hydric Soil Present? | Yes X | No ____ | **within a Wetland?** **Yes** X **No** ____ |
| Wetland Hydrology Present? | Yes X | No ____ | If yes, optional Wetland Site ID: ____ |

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

### HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- X Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ 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)
- X FAC-Neutral Test (D5)

**Field Observations:**

| | | | |
|---|---|---|---|
| Surface Water Present? | Yes ____ | No X | Depth (inches): ____ |
| Water Table Present? | Yes ____ | No X | Depth (inches): ____ |
| Saturation Present? (includes capillary fringe) | Yes X | No ____ | Depth (inches): 0 |

**Wetland Hydrology Present?** **Yes** X **No** ____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

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

Sampling Point: A-WET

| Tree Stratum (Plot size: 30' ) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Salix nigra* | 30 | Yes | OBL |
| 2. *Juglans nigra* | 20 | Yes | FACU |
| 3. *Fraxinus pennsylvanica* | 10 | No | FACW |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 60 | =Total Cover | |
| **Sapling/Shrub Stratum** (Plot size: 15' ) | | | |
| 1. *Crataegus crus-galli* | 10 | Yes | FAC |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 10 | =Total Cover | |
| **Herb Stratum** (Plot size: 5' ) | | | |
| 1. *Leersia virginica* | 55 | Yes | FACW |
| 2. *Lysimachia nummularia* | 30 | Yes | FACW |
| 3. *Euthamia graminifolia* | 15 | No | FAC |
| 4. *Carex grayi* | 5 | No | FACW |
| 5. *Equisetum arvense* | 5 | No | FAC |
| 6. *Iris pseudacorus* | 10 | No | OBL |
| 7. *Juncus effusus* | 3 | No | OBL |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 123 | =Total Cover | |
| **Woody Vine Stratum** (Plot size: 15' ) | | | |
| 1. | | | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| | | =Total Cover | |

**Dominance Test worksheet:**

Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)

Total Number of Dominant Species Across All Strata: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 80.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 43 | x 1 = | 43 |
| FACW species | 100 | x 2 = | 200 |
| FAC species | 30 | x 3 = | 90 |
| FACU species | 20 | x 4 = | 80 |
| UPL species | 0 | x 5 = | 0 |
| Column Totals: | 193 (A) | | 413 (B) |

Prevalence Index = B/A = 2.14

**Hydrophytic Vegetation Indicators:**

___ 1 - Rapid Test for Hydrophytic Vegetation

X 2 - Dominance Test is >50%

X 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** X **No** ___

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

## SOIL

Sampling Point A-WET

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

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-16 | 10YR 3/2 | 98 | 5YR 5/8 | 2 | C | M | Mucky Loam/Clay | |
| 16-18 | 10YR 4/2 | 60 | 5YR 5/8 | 40 | C | M | Mucky Loam/Clay | |

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

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

**Hydric Soil Indicators:**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- X Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 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**)
- ___ 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 (F22)
- ___ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** **Yes** X **No** ____

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: S. Youngs Rd City/County: Amherst/ Erie Sampling Date: 8/16/23

Applicant/Owner: Rod Ives, Napierala Consulting State: NY Sampling Point: A-UP

Investigator(s): AL Section, Township, Range: Town of Amherst

Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): convex Slope %: 4

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.946982 Long: -78.727484 Datum: NAD83

Soil Map Unit Name: OvA NWI classification: PFO1/SS1E

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

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

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

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

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes ____ | No X | **Is the Sampled Area** |
| Hydric Soil Present? | Yes ____ | No X | **within a Wetland?** **Yes** ____ **No** X |
| Wetland Hydrology Present? | Yes ____ | No X | If yes, optional Wetland Site ID: ____ |

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

### HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ 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 ____ | No X | Depth (inches): ____ |
| Water Table Present? | Yes ____ | No X | Depth (inches): ____ |
| Saturation Present? (includes capillary fringe) | Yes ____ | No X | Depth (inches): ____ |

**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: A-UP

| Tree Stratum (Plot size: 30' ) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Juglans nigra* | 65 | Yes | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 65 | =Total Cover | |
| **Sapling/Shrub Stratum** (Plot size: 15' ) | | | |
| 1. *Rubus occidentalis* | 30 | Yes | UPL |
| 2. *Crataegus crus-galli* | 15 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 45 | =Total Cover | |
| **Herb Stratum** (Plot size: 5' ) | | | |
| 1. *Phleum pratense* | 30 | Yes | FACU |
| 2. *Poa pratensis* | 50 | Yes | FACU |
| 3. *Ageratina altissima* | 25 | Yes | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 105 | =Total Cover | |
| **Woody Vine Stratum** (Plot size: 15' ) | | | |
| 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: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 15 | x 3 = | 45 |
| FACU species | 170 | x 4 = | 680 |
| UPL species | 30 | x 5 = | 150 |
| Column Totals: | 215 (A) | | 875 (B) |

Prevalence Index = B/A = 4.07

**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** X

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

**SOIL**

Sampling Point A-UP

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

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-15 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | |
| 15-18 | 7.5YR 5/8 | 100 | | | | | Sandy | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

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

**Hydric Soil Indicators:**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 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**)
- ___ 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 (F22)
- ___ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** **Yes** ____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: S. Youngs Rd City/County: Amherst/ Erie Sampling Date: 8/16/23

Applicant/Owner: Rod Ives, Napierala Consulting State: NY Sampling Point: UP-1

Investigator(s): AL Section, Township, Range: Town of Amherst

Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): convex Slope %: 6

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.948128 Long: -78.725845 Datum: NAD83

Soil Map Unit Name: CgB NWI classification: N/A

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

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

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

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

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes ____ | No X | **Is the Sampled Area** |
| Hydric Soil Present? | Yes ____ | No X | **within a Wetland?** **Yes** ____ **No** X |
| Wetland Hydrology Present? | Yes ____ | No X | If yes, optional Wetland Site ID: ____ |

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

### HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ 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 ____ | No X | Depth (inches): ____ |
| Water Table Present? | Yes ____ | No X | Depth (inches): ____ |
| Saturation Present? (includes capillary fringe) | Yes ____ | No X | Depth (inches): ____ |

**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: UP-1

| Tree Stratum (Plot size: 30' ) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. | 65 | Yes | |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 65 | =Total Cover | |
| **Sapling/Shrub Stratum** (Plot size: 15' ) | | | |
| 1. *Lonicera morrowii* | 3 | No | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 3 | =Total Cover | |
| **Herb Stratum** (Plot size: 5' ) | | | |
| 1. *Phleum pratense* | 25 | Yes | FACU |
| 2. *Cirsium discolor* | 35 | Yes | UPL |
| 3. *Cynanchum nigrum* | 25 | Yes | UPL |
| 4. *Poa pratensis* | 25 | Yes | FACU |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 110 | =Total Cover | |
| **Woody Vine Stratum** (Plot size: 15' ) | | | |
| 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: 5 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 53 | x 4 = | 212 |
| UPL species | 60 | x 5 = | 300 |
| Column Totals: | 113 (A) | | 512 (B) |

Prevalence Index = B/A = 4.53

**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** X

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

**SOIL**

Sampling Point UP-1

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

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-18 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
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| | | | | | | | | |
| | | | | | | | | |

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

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

**Hydric Soil Indicators:**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 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**)
- ___ 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 (F22)
- ___ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** **Yes** ____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: S. Youngs Rd City/County: Amherst/ Erie Sampling Date: 8/16/23

Applicant/Owner: Rod Ives, Napierala Consulting State: NY Sampling Point: UP-2

Investigator(s): AL Section, Township, Range: Town of Amherst

Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): convex Slope %: 5

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.948536 Long: -78.728870 Datum: NAD83

Soil Map Unit Name: OvA NWI classification: N/A

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

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

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

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

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes ____ | No X | **Is the Sampled Area** |
| Hydric Soil Present? | Yes ____ | No X | **within a Wetland?** **Yes** ____ **No** X |
| Wetland Hydrology Present? | Yes ____ | No X | If yes, optional Wetland Site ID: ____ |

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

### HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ 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 ____ | No X | Depth (inches): ____ |
| Water Table Present? | Yes ____ | No X | Depth (inches): ____ |
| Saturation Present? (includes capillary fringe) | Yes ____ | No X | Depth (inches): ____ |

**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: UP-2

| Tree Stratum (Plot size: 30' ) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Juglans nigra* | 75 | Yes | FACU |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 75 | =Total Cover | |
| Sapling/Shrub Stratum (Plot size: 15' ) | | | |
| 1. *Rubus occidentalis* | 50 | Yes | UPL |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 50 | =Total Cover | |
| Herb Stratum (Plot size: 5' ) | | | |
| 1. *Phleum pratense* | 30 | Yes | FACU |
| 2. *Poa pratensis* | 55 | Yes | FACU |
| 3. *Ageratina altissima* | 20 | No | FACU |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 105 | =Total Cover | |
| Woody Vine Stratum (Plot size: 15' ) | | | |
| 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: 4 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 0 | x 3 = | 0 |
| FACU species | 180 | x 4 = | 720 |
| UPL species | 50 | x 5 = | 250 |
| Column Totals: | 230 (A) | | 970 (B) |

Prevalence Index = B/A = 4.22

**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** X

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

**SOIL**

Sampling Point UP-2

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

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-15 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | |
| 15-18 | 7.5YR 5/8 | 100 | | | | | Sandy | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

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

**Hydric Soil Indicators:**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 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**)
- ___ 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 (F22)
- ___ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** **Yes** ____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)

## WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: S. Youngs Rd City/County: Amherst/ Erie Sampling Date: 8/16/23

Applicant/Owner: Rod Ives, Napierala Consulting State: NY Sampling Point: UP-3

Investigator(s): AL Section, Township, Range: Town of Amherst

Landform (hillside, terrace, etc.): none Local relief (concave, convex, none): convex Slope %: 6

Subregion (LRR or MLRA): LRR L, MLRA 101 Lat: 42.946581 Long: -78.726542 Datum: NAD83

Soil Map Unit Name: OvA NWI classification: N/A

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

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

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

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

| | | | |
|---|---|---|---|
| Hydrophytic Vegetation Present? | Yes ____ | No X | **Is the Sampled Area** |
| Hydric Soil Present? | Yes ____ | No X | **within a Wetland?** **Yes** ____ **No** X |
| Wetland Hydrology Present? | Yes ____ | No X | If yes, optional Wetland Site ID: ____ |

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

### HYDROLOGY

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one is required; check all that apply)

- ___ Surface Water (A1)
- ___ High Water Table (A2)
- ___ Saturation (A3)
- ___ Water Marks (B1)
- ___ Sediment Deposits (B2)
- ___ Drift Deposits (B3)
- ___ Algal Mat or Crust (B4)
- ___ Iron Deposits (B5)
- ___ Inundation Visible on Aerial Imagery (B7)
- ___ Sparsely Vegetated Concave Surface (B8)
- ___ Water-Stained Leaves (B9)
- ___ Aquatic Fauna (B13)
- ___ Marl Deposits (B15)
- ___ Hydrogen Sulfide Odor (C1)
- ___ Oxidized Rhizospheres on Living Roots (C3)
- ___ Presence of Reduced Iron (C4)
- ___ Recent Iron Reduction in Tilled Soils (C6)
- ___ Thin Muck Surface (C7)
- ___ Other (Explain in Remarks)

Secondary Indicators (minimum of two required)

- ___ 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 ____ | No X | Depth (inches): ____ |
| Water Table Present? | Yes ____ | No X | Depth (inches): ____ |
| Saturation Present? (includes capillary fringe) | Yes ____ | No X | Depth (inches): ____ |

**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: UP-3

| Tree Stratum (Plot size: 30' ) | Absolute % Cover | Dominant Species? | Indicator Status |
|---|---|---|---|
| 1. *Juglans nigra* | 60 | Yes | FACU |
| 2. *Acer negundo* | 20 | Yes | FAC |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 80 | =Total Cover | |
| **Sapling/Shrub Stratum** (Plot size: 15' ) | | | |
| 1. *Rubus occidentalis* | 55 | Yes | UPL |
| 2. | | | |
| 3. | | | |
| 4. | | | |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| | 55 | =Total Cover | |
| **Herb Stratum** (Plot size: 5' ) | | | |
| 1. *Phleum pratense* | 15 | No | FACU |
| 2. *Poa pratensis* | 30 | Yes | FACU |
| 3. *Ageratina altissima* | 25 | Yes | FACU |
| 4. *Cynanchum nigrum* | 35 | Yes | UPL |
| 5. | | | |
| 6. | | | |
| 7. | | | |
| 8. | | | |
| 9. | | | |
| 10. | | | |
| 11. | | | |
| 12. | | | |
| | 105 | =Total Cover | |
| **Woody Vine Stratum** (Plot size: 15' ) | | | |
| 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: 6 (B)

Percent of Dominant Species That Are OBL, FACW, or FAC: 16.7% (A/B)

**Prevalence Index worksheet:**

| Total % Cover of: | | Multiply by: | |
|---|---|---|---|
| OBL species | 0 | x 1 = | 0 |
| FACW species | 0 | x 2 = | 0 |
| FAC species | 20 | x 3 = | 60 |
| FACU species | 130 | x 4 = | 520 |
| UPL species | 90 | x 5 = | 450 |
| Column Totals: | 240 (A) | | 1030 (B) |

Prevalence Index = B/A = 4.29

**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** X

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

**SOIL**

Sampling Point UP-3

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

| Depth | Matrix | | Redox Features | | | | | |
|---|---|---|---|---|---|---|---|---|
| (inches) | Color (moist) | % | Color (moist) | % | Type[1] | Loc[2] | Texture | Remarks |
| 0-16 | 10YR 3/2 | 100 | | | | | Loamy/Clayey | |
| 16-18 | 7.5YR 5/8 | 100 | | | | | Sandy | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

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

**Hydric Soil Indicators:**

- ___ Histosol (A1)
- ___ Histic Epipedon (A2)
- ___ Black Histic (A3)
- ___ Hydrogen Sulfide (A4)
- ___ Stratified Layers (A5)
- ___ Depleted Below Dark Surface (A11)
- ___ Thick Dark Surface (A12)
- ___ Sandy Mucky Mineral (S1)
- ___ Sandy Gleyed Matrix (S4)
- ___ Sandy Redox (S5)
- ___ Stripped Matrix (S6)
- ___ Dark Surface (S7)
- ___ Polyvalue Below Surface (S8) (**LRR R, MLRA 149B**)
- ___ Thin Dark Surface (S9) (**LRR R, MLRA 149B**)
- ___ High Chroma Sands (S11) (**LRR K, L)**
- ___ Loamy Mucky Mineral (F1) (**LRR K, L**)
- ___ Loamy Gleyed Matrix (F2)
- ___ Depleted Matrix (F3)
- ___ Redox Dark Surface (F6)
- ___ Depleted Dark Surface (F7)
- ___ Redox Depressions (F8)
- ___ Marl (F10) (**LRR K, L**)

**Indicators for Problematic Hydric Soils[3]:**

- ___ 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**)
- ___ 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 (F22)
- ___ Other (Explain in Remarks)

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

**Restrictive Layer (if observed):**

Type: _____

Depth (inches): _____

**Hydric Soil Present?** **Yes** ____ **No** X

Remarks:

This data form is revised from Northcentral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicators of Hydric Soils, Version 7.0, 2015 Errata. (http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)