Wetland Delineation Report for the Site Specific Environmental Assessment for the Proposed Western New York National Cemetery

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1. Introduction

On behalf of Mabbett & Associates, Inc., AECOM has prepared this Wetland Delineation Report for the U.S. Department of Veterans Affairs (VA) proposed Western New York National Cemetery (Project). The purpose of the Project is to develop a new National Cemetery and ancillary facilities for veterans and their eligible family members in western New York.

The Project Study Area for this Wetland Delineation Report is an approximately 271-acre multiple land parcel site located at 1232 Indian Falls Road in the Town of Pembroke, Genesee County, New York (Figure 1). The purpose of this report is to identify regulated aquatic resources within the Project Study Area and to provide the results of the delineation along with related information for the United States Army Corps of Engineers (USACE) and New York State Department of Environmental Conservation (NYSDEC) to verify wetland delineation boundaries and to make and document Jurisdictional Determinations of the wetlands within the Project Study Area.

1.1. Project Overview

The purpose of this Wetland Delineation Report is to describe the methodology and results of the field investigation to identify and delineate aquatic resources that may be subject to regulation under federal and/or state jurisdiction at the Project Study Area. A secondary purpose of this report is to characterize those aquatic resources found and documented at the Project Study Area. The need for this wetland delineation arose because wetlands were identified during a preliminary wetland evaluation at the site at the time when the VA was still evaluating the adequacy of this site and two others for a new Western New York National Cemetery.

1.2. Regulatory Background

Article 24 of the Environmental Conservation Law, commonly known as the Freshwater Wetlands Act, protects New York’s freshwater wetlands. Pursuant to Article 24, wetlands greater than 12.4 acres or wetlands of any size that possess unique qualities are regulated by New York State. In an attempt to preserve and protect wetlands, New York regulates areas adjacent to wetlands. Those areas are defined as land or water that is outside a wetland and within 100 feet of the wetland’s boundary.

The USACE has regulatory jurisdiction over waters of the United States including wetlands pursuant to Section 404 of the Clean Water Act and Navigable Waters of the United States pursuant to Section 10 of the 1899 Rivers and Harbors Act.

2. Site Description and Location

2.1. Physiography

The Project Study Area is located within the Ontario-Erie Plain and Finger Lakes Region, which encompasses approximately 9,960 square miles. Most of this area is in the Eastern Lake Section of the Central Lowland Province of the Interior Plains. Bedrock underlying this area consists of alternating beds of limestone, dolomite, sandstone and shale of Ordovician to Devonian age. Most of the ground surface of this area consists of glacial till or lake sediments.
The 271 acre Study Area is comprised of three land parcels (Figure 1). Parcel 1 is approximately 132 acres and is located on the west side of the study area. Parcel 2 is in the central section of the study area and is approximately 62 acres. Parcel 3 is located on the east side of the study area and is approximately 77 acres in size. Parcel 1 includes a large agriculture field in the north (planted with beans), a forested complex in the central and western sections, a reverting old field (saturated soils) in the east central section, and old reverting fields and shrublands in the southern section (Figure 1). Parcel 2 is predominantly successional old field transitioning to shrubland with minor areas of forested growth. Parcel 3 contains two (2) agriculture fields (corn and carrots) and two (2) shrub/forest mixed areas in the central and southern sections. There is a swale, classified as an intermittent stream, running through the middle of Parcel 3. The swale runs east to west until it reaches the edge of the parcel and then heads north along the western parcel boundary, where it then goes under Indian Falls Road and eventually into Tonawanda Creek.

2.2. Hydrology

The Project Study Area is located within the Galloway Swamp-Tonawanda Creek watershed (HUC 041201040301) and Middle Murder Creek watershed (HUC 041201040202) (Figure 1).

2.3. Land Use

The site is dominated by past and present agricultural activities. Much of the site is abandoned agricultural fields reverting to old field successional growth. There are three (3) active agricultural fields on site. Two (2) are in Parcel 3, planted with corn and carrots, and the 3rd is in the northern section of Parcel 1 planted with beans. The major forested components on site are associated with wetland 2 in Parcel 1, and with wetland 3 and wetland 6 in Parcel 3. The site topography is relatively flat (Figure 1). The parcel is bounded by Allegany Road to the west, Indian Fall Road to the north, New York State Thruway I-90 to the south and undeveloped natural land to the east.

2.4. Wetland Ecosystems

Wetlands are an abundant resource within this region due to vegetative ecotypes, climactic conditions and landscape diversity. In this region, wetlands occur on the shores of lakes and ponds, broad flats on former glacial plains, depressions and blocked drainages formed by morainal deposits, outwash deposits of sand and gravel where groundwater discharges or is often near the surface, and deposits of unsorted glacial till that have created relatively impermeable subsoils on flats and slopes. The region also contains large river systems that periodically flood low lying areas creating floodplain wetlands of various types (USEPA-USACE 2011).

2.5. Vegetation
The presence and distribution of local vegetative communities is attributable to the socioeconomic development within the rural residential and agricultural landscape of the Town of Pembroke. The dispersion and density of land cover within this area is indicative of adjacent land use, development, and existing natural resources. The Town of Pembroke is predominantly farmland and an upland forest/wetland mosaic with some residential and commercial areas.

2.6. Soils

Soil information was obtained from the United State Department of Agriculture-Natural Resources Conservation Service (USDA-NRCS) (USDA-NRCS 2009). A list of soils present within the Project Study Area is presented in Table 1. Soils mapped in the Project Study Area by the NRCS are indicated in Figure 3. The dominant soils mapped in the Project Study Area include poorly drained Canandaigua silt loam, moderately well drained Phelps gravelly loam, well drained Ontario loam and somewhat poorly drained Ovid silt loam.

Poorly and very poorly drained soils are hydric soils. These areas typically support wetland plant communities. Areas mapped with somewhat poorly drained soils have the potential for hydric soil inclusions. Wetland areas can be found in association with these units.

Table 1. Soils Mapped within the Project Study Area

<table>
<thead>
<tr>
<th>Soil Map Unit Symbol</th>
<th>Soil Map Unit Name</th>
<th>Drainage Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>ApA</td>
<td>Appleton silt loam, 0 to 3 percent slopes</td>
<td>Somewhat poorly drained</td>
</tr>
<tr>
<td>CaA</td>
<td>Canandaigua silt loam, 0 to 2 percent slopes</td>
<td>Poorly drained</td>
</tr>
<tr>
<td>DuB</td>
<td>Dunkirk silt loam, 2 to 6 percent slopes</td>
<td>Well drained</td>
</tr>
<tr>
<td>FpA</td>
<td>Fredon gravelly loam, 0 to 3 percent slopes</td>
<td>Somewhat poorly drained</td>
</tr>
<tr>
<td>GnA</td>
<td>Galen very fine sandy loam, 0 to 2 percent slopes</td>
<td>Moderately well drained</td>
</tr>
<tr>
<td>GnB</td>
<td>Galen very fine sandy loam, 2 to 6 percent slopes</td>
<td>Moderately well drained</td>
</tr>
<tr>
<td>HaA</td>
<td>Halsey silt loam, 0 to 4 percent slopes</td>
<td>Very poorly drained</td>
</tr>
<tr>
<td>Ld</td>
<td>Lamson very fine sandy loam</td>
<td>Poorly drained</td>
</tr>
<tr>
<td>Le</td>
<td>Lamson mucky very fine sandy loam</td>
<td>Very poorly drained</td>
</tr>
<tr>
<td>LmA</td>
<td>Lima silt loam, 0 to 3 percent slopes</td>
<td>Moderately well drained</td>
</tr>
<tr>
<td>LmB</td>
<td>Lima silt loam, 3 to 8 percent slopes</td>
<td>Moderately well drained</td>
</tr>
<tr>
<td>NgA</td>
<td>Niagara silt loam, 0 to 2 percent slopes</td>
<td>Somewhat poorly drained</td>
</tr>
<tr>
<td>OnA</td>
<td>Ontario loam, 0 to 3 percent slopes</td>
<td>Well drained</td>
</tr>
<tr>
<td>OnB</td>
<td>Ontario loam, 3 to 8 percent slopes</td>
<td>Well drained</td>
</tr>
<tr>
<td>OvB</td>
<td>Ovid silt loam, 3 to 8 percent slopes</td>
<td>Somewhat poorly drained</td>
</tr>
<tr>
<td>PhA</td>
<td>Palmyra gravelly loam, 0 to 3 percent slopes</td>
<td>Well drained</td>
</tr>
<tr>
<td>PhB</td>
<td>Palmyra gravelly loam, 3 to 8 percent slopes</td>
<td>Well drained</td>
</tr>
<tr>
<td>PhC</td>
<td>Palmyra gravelly loam, 8 to 15 percent slopes</td>
<td>Well drained</td>
</tr>
<tr>
<td>PsA</td>
<td>Phelps gravelly loam, 0 to 3 percent slopes</td>
<td>Moderately well drained</td>
</tr>
</tbody>
</table>

Table 1, cont'd. Soils Mapped within the Project Study Area

<table>
<thead>
<tr>
<th>Soil Map Unit Symbol</th>
<th>Soil Map Unit Name</th>
<th>Drainage Class</th>
</tr>
</thead>
</table>
3. Methodology

3.1. Site Resources Review

A desktop analysis was conducted for the Project Study Area using existing information from federal and state agency databases, published literature review and state agency correspondence. The analysis was conducted to determine the presence and extent of biological and natural resources potentially occurring in the Project vicinity.

Vegetation cover types as defined by United States Geological Survey (USGS) Gap Analysis Program (GAP) Level 3 New York land cover data (USGS 2010b) were used to characterize vegetation communities at the site. Aerial photography was compared to GAP data to detect changes in vegetation structure and density associated with clearing of forested areas, development, restoration and land uses. Dominant vegetation communities were characterized according to the classification scheme presented in Ecological Communities of New York State, Second Edition (Edinger et al. 2002).

A review of existing information from NYSDEC Freshwater Wetland maps (CUGIR 2002) and United States Fish and Wildlife Service NWI wetland maps (USFWS 2009) was conducted to locate potential jurisdictional waters of the U.S. including wetlands (Figure 3). Current aerial imagery (NAIP 2009) and information from the NRCS soil survey (USDA-NRCS 2009) supplemented the review for potential wetland areas.

3.2. Field Surveys

3.2.1. Project Survey Area

The wetland delineation and surface waters survey in the Project Study Area were conducted by AECOM biologists in April, August and September 2015. The Project Study Area is shown on Figure 1.

3.2.2. Wetland Surveys

Wetlands in the Project Study Area were delineated using the routine methodology set forth in the USACE Wetland Delineation Manual (USACE 1987) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0) (USACE 2012). A three parameter approach is used with these methods: vegetation, soils, and hydrology are assessed to identify the presence of wetlands. Initial boundaries of wetlands are established through visual assessment of vegetation and hydrology. Soils are assessed to determine the final boundary. For each plant community, sampling plots were established and vegetation, soils and hydrology were characterized. The sections below describe the results of this sampling. Wetlands were determined to be present if the sample plots exhibited the qualifying criteria of a dominance of hydrophytic vegetation, hydric soils and wetland

<table>
<thead>
<tr>
<th>PsB</th>
<th>Phelps gravelly loam, 3 to 8 percent slopes</th>
<th>Moderately well drained</th>
</tr>
</thead>
<tbody>
<tr>
<td>RsA</td>
<td>Romulus silt loam, 0 to 3 percent slopes</td>
<td>Poorly drained</td>
</tr>
<tr>
<td>Um</td>
<td>Udorthents, smoothed</td>
<td>Well drained</td>
</tr>
</tbody>
</table>
The wetland determination for difficult or problematic wetlands was made utilizing guidance in Section 5 of the Northcentral and Northeast Supplement (USACE 2012).

For each delineated wetland, data recorded on the USACE Wetland Determination Data Forms included:

- Sketch map of each wetland feature
- Drainage patterns
- Sample plot locations
- Photo point locations and direction of photo
- Plant, soil, hydrology and other relevant information to support the determination

Photographs taken for each wetland area investigated are presented in Attachment 1. The USACE Wetland Determination and Stream Data Forms are presented in Attachment 2. Field-delineated wetlands and streams are presented in Figure 2. The following sections describe the methods used to evaluate vegetation, soils and hydrology.

**Vegetation**

For each sample plot, herbaceous, shrub, tree and vine strata were analyzed and characterized based on absolute cover, plant dominance and plant indicator status. The percent cover by species was determined using a 5-foot radius for the herbaceous layer, a 15-foot radius for the shrub/sapling layer, and 30-foot radii for tree and vine strata where present. The wetland indicator status was determined for each dominant plant species based on the USACE National Wetland Plant List (Lichvar 2013) and the 2014 Update of Wetland Ratings (Lichvar 2014). Problematic areas of vegetation with irregular shapes or sizes were evaluated using an adjusted survey area but still with the same square footage: 2,827 sq. ft. for a 30-foot radius plot (tree) and 707 sq. ft. for a 15-foot radius plot (shrub/sapling). For potential wetland areas that were smaller than the recommended sampling plot areas, the area was considered on the whole due to the limits of square footage.

**Soils**

Two soil test pits were dug at each investigated wetland area with a “sharpshooter” (5” drain tile) shovel to a maximum depth of 20 inches. The first soil test pit was placed in an area of readily distinguishable wetland plant communities. The second soil pit was placed in an adjacent upland area. The results of the soil survey were used to verify and document the boundary between wetlands and adjacent uplands. Soil profiles were inspected for the presence of hydric soil indicators as described in the USACE Northcentral and Northeast Regional Supplement (USACE 2012). A Munsell Soil Color Chart (Macbeth 1994) was used to define the soil hue, value and chroma of the samples collected from each test pit.

**Hydrology**

A visual assessment of primary and secondary wetland indicators was conducted at each wetland. In this region, primary wetland hydrology indicators include surface water, high water table, soil saturation, water-stained leaves, sediment deposits, drift deposits, algal mats or crust
and others. Secondary wetland hydrology indicators include surface soil cracks, moss trim lines, drainage patterns, oxidized rhizospheres on living roots, FAC-neutral test and others. The soil pits were observed for the presence and stabilization of an apparent high water table.

### 3.2.3. Stream Surveys

AECOM biologists evaluated surface waters in the Project Study Area following guidance provided in the USACE Jurisdictional Determination Form Instruction Guidebook, joint U.S. Environmental Protection Agency (USEPA) and USACE guidance regarding Clean Water Act (CWA) jurisdiction after Rapanos, and joint guidance on identifying waters protected by CWA (USEPA-USACE 2007, 2008, 2011).

A visual interpretation of the ordinary high water mark (OHWM), as defined by USACE (2005), was conducted for all streams and drainages. The stream bank was evaluated for physical characteristics established by the fluctuations of water to determine the OHWM. These characteristics included a clear, natural line impressed on the bank, shelving along the bank, changes in the character of the soil, disturbed vegetation, and the presence and location of debris in vegetation along the bank.

Stream characteristics such as stream width, water depth, substrate composition, bank vegetation, stream flow direction and Cowardin Classification (Cowardin et al. 1979) were recorded on Routine Data Forms (provided in Attachment 2).

### 3.2.4. Mapping Procedures

Wetland boundaries were identified and marked in the field with pink wetland delineation “surveyor” flagging tape. The wetland boundaries were surveyed using a Trimble Geo® XH™ Global Positioning System (GPS). This GPS unit generally possesses sub-meter accuracy with increased accuracy in open areas with little tree canopy. Factors including environmental (weather), topography, satellite positioning and user error can contribute to poor capture results. None of these factors influenced the data gathered during the delineation.

### 4. Results and Discussion

#### 4.1. Ecological Communities and Vegetation

The density and dispersion of existing natural resources in the Project Study Area site is similar to that of the surrounding areas. The Town of Pembroke consists mostly of agriculture fields, forested uplands, and wetland complexes with some residential and commercial areas.

Wetlands delineated in the Project Study Area consisted of emergent (wet meadow), scrub/shrub and forested wetland plant communities. Wetland 2 and Wetland 3 have similar ecological communities and are located in areas mapped with NYSDEC wetlands. The emergent wetland areas were primarily dominated by cattail (*Typha latifolia*), willow (*Salix* spp.), reed canary grass (*Phalaris arundinacea*), sedges (*Carex* and *Scirpus* spp.) and sensitive fern (*Onoclea sensibilis*). Scrub-shrub wetland plant communities were dominated by red-osier dogwood (*Cornus sericea*) and willow as well as emergent species. The forested components of the wetlands include red
maple (*Acer rubrum*), silver maple (*Acer saccharinum*), green ash (*Fraxinus pensylvanica*) and willow.

No State or Federal listed rare, threatened or endangered species were observed during the field investigations. Further investigation for the presence of rare, threatened and endangered species or habitats within the project site occurred in May, August and September 2015. The results of that investigation will be presented in a separate biological assessment report currently in development.

### 4.2. Soils

Twenty-two soil units mapped by the NRCS occur within the Project Study Area, as listed in Table 2 and depicted in Figure 3. The dominant soils mapped in the delineated wetland areas are poorly drained (hydric) and somewhat poorly drained (potential for hydric soil inclusions) soils. Hydric soils are defined as soils that are formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part (Federal Register 1994). The hydric criteria for soils in the Northcentral and Northeast Region of the United States have been updated in the Regional Supplement (USACE 2012). Soil characteristics can be important indicators of wetland and upland boundaries. This is especially useful in cases where potential wetland vegetation is lacking or has been removed or impacted. Although hydrophytic vegetation and wetland hydrology indicators must be confirmed before a wetland determination can be made, hydric soils information is useful in determining the potential presence of wetlands.

### 4.3. Hydrology

Local hydrology is influenced by seasonal pooling of storm and melt water, rainfall runoff and perched groundwater. Surface water observed during the field work in the Project Study Area included a very small open water section in the southwest corner of Wetland 1 and ponded water towards the center of the forested area in Wetland 2. The emergent wetlands in Wetland 2 in the central sections were ponded to a depth of approximately 2 inches and the small ponded area in the corner of Wetland 1 was about 6 inches in depth. Wetland 4 contained areas of open water up to approximately 8 inches in depth, and Wetland 5 contained an open water “swale” with water depth ranging from 4-24 inches. Wetland 3 and 6 did not possess any standing water at the time of documentation but signs of past pooled water including crack surface soil and sedimentation deposits were observed.

The most prevalent indicators of wetland hydrology in the delineated wetlands were Surface Water (A1), Saturation (A3), Inundation Visible on Imagery (B7), Hydrogen Sulfide Odor (C1), and Oxidized Rhizospheres on Living Roots (C3).

### 4.4. Wetlands

Six (6) wetlands totaling approximately 86.1 acres were delineated within the Project Study Area, as summarized in Table 2 and depicted in Figure 2.
Based on the results of the field survey and the review of topographic maps, aerial imagery, and hydrology data, it appears some of the wetland areas delineated have a hydrologic connection to adjacent off-site wetland areas, as describing in the comment field in Table 2.

### Table 2. Wetland Summary for the Project Study Area

<table>
<thead>
<tr>
<th>Wetland</th>
<th>Cowardin Classification(^{(1)})</th>
<th>NYSDEC Wetland</th>
<th>Parcel 1</th>
<th>Parcel 2</th>
<th>Parcel 3</th>
<th>Size in Project Study Area (acres approx.)</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>W1</td>
<td>PEM/PSS</td>
<td>-</td>
<td>0.3</td>
<td>16.5</td>
<td>16.8</td>
<td>Large shrubland wetland with a complex of historic agricultural swales.</td>
<td></td>
</tr>
<tr>
<td>W2</td>
<td>PFO/PSS/PEM</td>
<td>AK-14</td>
<td>42.0</td>
<td>4.6</td>
<td>46.6</td>
<td>Borders Alleghany Road to the west.</td>
<td></td>
</tr>
<tr>
<td>W3</td>
<td>PSS</td>
<td>AK-15</td>
<td>1.1</td>
<td>4.0</td>
<td>8.77</td>
<td>Attached hydrologically to NYSDEC AK-15 to the east.</td>
<td></td>
</tr>
<tr>
<td>W4</td>
<td>PFO/PSS</td>
<td>AK-14</td>
<td>2.8</td>
<td></td>
<td>3.1</td>
<td>Just south of Wetland 2, separated by a gravel access road.</td>
<td></td>
</tr>
<tr>
<td>W5</td>
<td>PFO/PSS</td>
<td>-</td>
<td>1.8</td>
<td></td>
<td>2.0</td>
<td>Connects to unnamed tributary of Murder Creek.</td>
<td></td>
</tr>
<tr>
<td>W6</td>
<td>PSS/PEM/PFO</td>
<td>-</td>
<td></td>
<td>3.4</td>
<td>3.4</td>
<td>Part of NWI wetland.</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>48.0</td>
<td>25.1</td>
<td>12.2</td>
<td>86.1</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**
1 – Cowardin et al. 1979
NA – Not applicable

### 4.5. Streams

An intermittent stream separates the two active agricultural fields in the eastern section of Parcel 3 where it flows east to west until it reaches the central successional old field and flows north along the western boundary of Parcel 3. This feature crosses Indian Falls Road via a culvert. This stream connects with Tonawanda creek (NYSDEC class B Stream) approximately .3 miles north of the site. Water was only found in the northern most reach near Indian Falls Road. A drainage ditch complex in Parcel 2 spreads throughout Wetland 1 and connects with the intermittent stream approximately 600 feet from Indian Falls Road. This was dry during the time of the survey.
One small ditch was observed along a hedgerow separating the north and south fields, as depicted on Figure 2. The ditch varies from 2 to 5 feet wide, 1 to 2 feet deep and is approximately 284 feet in length. The majority of the ditch is vegetated with emergent and shrubby plants with a few trees along the top of bank. This feature is likely a remnant of the past agricultural activity and does not meet the criteria for regulation.

Off the southern boundary of the study area is an un-named tributary to Murder Creek. This feature was observed in the field but not mapped since it was not part of the project study area. It is a medium sized man-made swale that runs parallel to NYS Thruway I-90 (approximately 10 feet wide and 1 foot deep). Wetland W-5 outfalls into this feature in the southwest corner of the study area via a small man-made drainage swale (2 to 3 feet wide and 0.5 to 1 foot deep) that runs parallel to Allegany Road.

5. Discussion

Field surveys for wetland delineations and water resources were conducted on April 28 and 29, August 26, 27, 28 and 31, and September 8, 2015, within the USDVANCA Project Study Area. The field surveys performed in April were on the western section (Parcel 1) and the August and September surveys were performed on the central and eastern sections (Parcels 2 & 3) (Figure 2). Six (6) wetlands totaling approximately 86.1 acres in size were delineated in the Project Study Area. One (1) intermittent stream was delineated on site.

Based on the field investigation and a review of aerial imagery, topographic maps and hydrologic data, the delineated wetlands appear to have a hydrologic connection to Waters of the U.S. and are therefore likely federal jurisdictional wetlands.

Wetland 2 is included in mapped NYSDEC Wetland AK-14. All of delineated Wetland 2 and 100-foot adjacent buffer area would likely be regulated by the NYSDEC. Due to close proximity to Wetland 2 and NYSDEC State Wetland AK-14, Wetland 4 may also be considered by the NYSDEC as part of the mapped Wetland AK-14 complex and fall under State jurisdiction. Wetland 3 is connected to NYSDEC Wetland AK-15 and may fall under State jurisdiction.

It is anticipated that wetlands permits and Jurisdictional Determination will be required from the NYSDEC and USACE via a Joint Application for Permit in accordance with NYSDEC Article 24-Freshwater Wetlands, and Section 401-Water Quality Certification, and Section 404 of the Clean Water Act.
6. References


New York State Department of Environmental Conservation - New York Natural Heritage Program website. Rare plant information, May 2003.


Figures
Figure 2

Legend
- Blue: Swale
- Pink: Wetland Continuation Line
- Black: Stream
- Green: Wetlands
- Red: Site Location
- Orange: Parcel Boundary

Field Data Collection Information:
- Data was collected on 4/28/15, 4/29/15, 8/26/15, 8/27/15, 8/28/15
- Boundary coordinates were collected using a Trimble GeoXH with ESRI’s ArcPad
- Data was Post Processed using Trimble’s GeoPathfinder Office

WETLAND & STREAM DELINEATION
VA PROPOSED WESTERN NEW YORK NATIONAL CEMETRY
PEMBROKE, NEW YORK

Sources:
- Aerial Photo: ESRI World Imagery, USDA Farm Service Agency National Agricultural Imagery Program 2013
- NYSDEC Wetlands and Streams: NYS GIS Clearinghouse, NYSDEC 2002
- USFWS Wetlands: USFWS National Wetlands Inventory 2014
Field Data Collection Information:
- Boundary coordinates were collected using a Trimble GeoXH with ESRI's ArcPad
- Data was Post-Processed using Trimble's GeoPathfinder Office

Sources:
- Aerial Photo: ESRI World Imagery, USDA Farm Service Agency National Agriculture Imagery Program 2013
- NYSDEC Wetlands and Streams: NYS GIS Clearinghouse, NYSDEC 2002
- USFWS Wetlands: USFWS National Wetlands Inventory 2014
FIGURE 4

VA PROPOSED WESTERN NEW YORK NATIONAL CEMETERY
PEMBROKE, NEW YORK

Legend

Site Location
Soil Boundary

Sources:
Aerial Imagery: ESRI World Imagery, USDA Farm Service Agency National Agriculture Imagery Program 2013
Soils: USDA NCRS Geospatial Data Gateway 2015

Map values:
^  0  Feet
400  0  400 Feet
Pennsylvania

FIGURE 4
Attachment 1
<table>
<thead>
<tr>
<th>Photo No.</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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</tr>
<tr>
<td>2</td>
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</tr>
<tr>
<td>Photo No.</td>
<td>Date</td>
<td>Description</td>
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</tr>
<tr>
<td>3</td>
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<td>Wetland W-2 eastern portion</td>
</tr>
<tr>
<td>4</td>
<td>28April15</td>
<td>Upland area for W-2 eastern portion</td>
</tr>
<tr>
<td>Photo No.</td>
<td>Date</td>
<td>Description</td>
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<td>5</td>
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<td>6</td>
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<td>Upland area for W-3</td>
</tr>
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## PHOTOGRAPHIC LOG

**Title:** USDVA Wetland Delineation  
**Location:** Pembroke NY

<table>
<thead>
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<th>Date</th>
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<tbody>
<tr>
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<td>8</td>
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<td>Upland area for W-4</td>
</tr>
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<td>Date</td>
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</tr>
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<td>9</td>
<td>28April15</td>
<td>Wetland W-5</td>
</tr>
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<td>10</td>
<td>28April15</td>
<td>Upland area for W-5</td>
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<tr>
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<td>Date</td>
<td>Description</td>
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</tr>
<tr>
<td>11</td>
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<td>Wetland W-2 western portion</td>
</tr>
<tr>
<td>12</td>
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<td>Upland for W-2 western portion</td>
</tr>
</tbody>
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### PHOTOGRAPHIC LOG

**Title:** USDVA Wetland Delineation  
**Location:** Pembroke NY

<table>
<thead>
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<th>Photo No.</th>
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<tbody>
<tr>
<td>13</td>
<td>27AUG15</td>
<td>Wetland W-1 (ext)</td>
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</table>

<table>
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<tr>
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<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
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<td>Upland area for W-1 (ext)</td>
</tr>
<tr>
<td>Photo No.</td>
<td>Date</td>
<td>Description</td>
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<tr>
<td>----------</td>
<td>----------</td>
<td>------------------------------</td>
</tr>
<tr>
<td>15</td>
<td>31AUG15</td>
<td>Wetland W-2 (ext)</td>
</tr>
<tr>
<td>16</td>
<td>31AUG15</td>
<td>Upland for W-2 (ext)</td>
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<td>Photo No.</td>
<td>Date</td>
<td>Description</td>
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<td>-----------</td>
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</tr>
<tr>
<td>17</td>
<td>26AUG15</td>
<td>Wetland W-3 (ext)</td>
</tr>
<tr>
<td>18</td>
<td>26AUG15</td>
<td>Upland area for W-3 (ext)</td>
</tr>
<tr>
<td>Photo No.</td>
<td>Date</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>--------</td>
<td>---------------------------</td>
</tr>
<tr>
<td>19</td>
<td>28AUG15</td>
<td>Wetland W-6</td>
</tr>
<tr>
<td>20</td>
<td>28AUG15</td>
<td>Upland for W-6</td>
</tr>
<tr>
<td>Photo No.</td>
<td>Date</td>
<td>Description</td>
</tr>
<tr>
<td>----------</td>
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</tr>
<tr>
<td>21</td>
<td>26AUG15</td>
<td>Stream S-1</td>
</tr>
<tr>
<td>22</td>
<td>26AUG15</td>
<td>Stream S-1-south central</td>
</tr>
</tbody>
</table>
**DATA FORM:**

**ROUTINE WETLAND DETERMINATION**

- **Project Number:** 60348076
- **Town:** Remmert
- **County:** Genesee
- **State:** New York
- **Sampling Date:** 28 April 2015
- **Community:** Pen & PS

**Hydrology**

- **Inundation Present?** Yes
- **Saturated Conditions?** Yes

**Field Observations**

- **Depth of Water (inches):** 36
- **Depth to Silt Soil (inches):** 0
- **Depth to Water (inches):** 0

**Stream Characteristics**

- **Perennial:** Bank Width: Gentle, Substrate: Bed Rock, Flow: No Flow
- **Intermittent:** Stream Width: Moderate, Water Depth: Steep, Water Depth: Gentle, Adjacent Community Type: Heavy
- **Instream Conditions:** Obscurred Banks, Deep Pools, Overhanging Vegetation

**Remarks**

Small open water wetland (pool) with fringe saturated soils on the east edge of site continues offshore.
## Vegetation

### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dominance Test worksheet:**

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

- Total Number of Dominant Species Across All Strata: 

- Percent of Dominant Species That Are OBL, FACW, or FAC: 

**Prevalence Index worksheet:**

- Total % Cover: 

- Multiply by: 

- OBL species: 
- FACW species: 
- FAC species: 
- FACU species: 
- UPL species: 

**Total Cover:**

**Hydrophytic Vegetation Indicators:**

- Rapid Test for Hydrophytic Vegetation
- Dominance Test >50%
- Prevalence Index < 0.1
- Morphological Adaptations (provide supporting data in remarks)
- Problematic Hydrophytic Vegetation (explain in remarks)

**Definitions of Vegetation Strata:**

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

### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cornus sericea</td>
<td>15</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>2</td>
<td>Salix spp.</td>
<td>5</td>
<td>N</td>
<td>FACW</td>
</tr>
</tbody>
</table>

**Total Cover:**

### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Typha spp</td>
<td>20</td>
<td>Y</td>
<td>OBL</td>
</tr>
<tr>
<td>2</td>
<td>Phalaris arundinacea</td>
<td>15</td>
<td>Y</td>
<td>FACW</td>
</tr>
</tbody>
</table>

**Total Cover:**

### Woody Vine Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover:**

**Remarks**

1. FA (Follicular algae on surface of water)
2. BHS on upland fringe
### Soil Map Unit

LMA Silt Loam

### Soil Profile Description

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>Matrix</th>
<th>%</th>
<th>Color (moist)</th>
<th>Redox Features</th>
<th>Type</th>
<th>Loc</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-18</td>
<td>10YR 2/1</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18-20</td>
<td>10YR 3/2</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Frequency: F=Few, MA=Moderately Abundant, C=Common
2. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains
3. Location: P=Porphyry Lining, M=Matrix

### Hydric Soil Indicators

- Histosol (A1)
- Histic Epipedon (A2)
- Black Bistosol (A3)
- Hydrogen Sulphate (A4)
- Stratified Layers (A5)
- Delepted 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)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Delepted Matrix (F3)
- Delepted Dark Surface (F6)
- Delepted Dark Surface (F7)
- Redox Depressions (F8)

### Problematic Hydric Soil Indicators

- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Pleckton Floodplain Soils (F13)
- Mica Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

### Wetland Determination

- Hydrophytic Vegetation Present? Yes No
- Hydric Soil Present? Yes No
- Wetland Hydrology Present? Yes No
- Is this Sampling Point Within a Wetland? Yes No
- Is the wetland mapped in the NFW? Yes No
- Is the wetland a mapped state wetland? Yes No
- Hydrologic Connectivity to Off-site Wetlands? Yes No N/A
- Does Any Part of this Delineated Wetland Stream Extend Past the Flagged Boundary? Yes No N/A
- Is this Wetland Potentially Isolated? Yes No N/A
- If yes, indicate classification
- If yes, indicate wetland ID

### Remarks

Silty mud coved with 1-3" of water on edge open water pool
DATA FORM
ROUTINE WETLAND DETERMINATION
Northcentral and Northeast Regional Supplement

Project Number: 60345076
Applicant: USDA

Nearest Flag to Data Point:

Investigator(s): J. Lyons

Landform: Hillside/Sep
Tie of Slope: Depressional
Riparian: Is the area a potential problem area? Yes No

Landscape Position: Flat Undulating Sloping Convex Concave
Approximate Slope (%): 1-2

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No

Do Normal Circumstances exist on site? Yes No

Hydrology

Primary Indicators (min. - 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mats or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Mollusks (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 (min. - 2 required)
- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Mass Timelines (B16)
- Dry Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations
Inundation Present? Yes No
Saturated Conditions? Yes No

Depth of Water (inches):
Depth to Sat. Soil (inches):
Depth to Water (inches):

Stream Characteristics

Stream type: Perennial
Morphology: Bank Width
Stream Gradient: Gentle
Substrate: Bed Rock
Flow: No Flow

Intermittent Stream Width
Moderate
Boulder
Silt

Water Depth
Sleep
Cobble
City

Adjacent Community Type:

Instream Conditions:
- Obscured Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Riffles & Pools
- Vegetated Channel
- Eroded/Undercut Bank
- Other

Remarks:

Upload area is wetsp l wi in reowtng es feld.
(succesional growth visible)
### Vegetation

#### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Number</th>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2.</td>
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<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Cover = Total Cover

#### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>Number</th>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Total Cover = Total Cover

#### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>Number</th>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Trifolium spp.</td>
<td>10</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>2.</td>
<td>Taraxacum officiale</td>
<td>10</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>3.</td>
<td>Phleum pretense</td>
<td>25</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>4.</td>
<td>Solidago canadensis</td>
<td>5</td>
<td>Y</td>
<td>FACW</td>
</tr>
</tbody>
</table>

Total Cover = Total Cover

### Dominance Test worksheet:

- Number of Dominant Species That Are OBL, FACW, or FAC: [A]
- Total Number of Dominant Species Across All Strata: [B]
- Percent of Dominant Species That Are OBL, FACW, or FAC: [A/B]

### Prevalence Index worksheet:

- Multiply by:
  - OBL species: \(x_1\)
  - FACW species: \(x_2\)
  - FAC species: \(x_3\)
  - FACU species: \(x_4\)
  - UPL species: \(x_5\)
- Column Total: \(A\)
- Prevalence Index = \(B/A\)

### Hydrophytic Vegetation Indicators:

- Rapid Test for Hydrophytic Vegetation
  - Dominance Test > 50%
  - Prevalence Index is ≤ 0.01
  - Morphological Adaptations (provide supporting data in remarks)
  - Problematic Hydrophytic Vegetation (explain in remarks)

### Definitions of Vegetation Strata:

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

### Remarks

Background of dead veg. from last year.
**Project Number:** 6034 5076  
**Applicant:** USDA  
**Soil Map Unit:** Ouid silt loam

### Soils

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Radix Features</th>
<th>Frequency</th>
<th>Type†</th>
<th>Loc*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>10YR 3/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16-20</td>
<td>10YR 5/8</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Texture, Structure, Other:** Silt loam/sand  
Sandy loam

*Frequency: F=Few, M=Moderately Abundant, C=Common  
†Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains  
*Location: PL=Pour 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 Peaty (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

### Problematic Hydric Soil Indicators†
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Dark Surface (F6)
- Redox Dark Surface (F7)
- Redox Depressions (F8)

### Restrictive Layer (If observed)
- Type:  
- Depth (inches):

---

**Remarks**

Typical ag field soil - evidence of old plow depth.

---

### Wetland Determination

Hydrophytic Vegetation Present? Yes **NO**  
Hydric Soil Present? Yes **NO**  
Wetland Hydrology Present? Yes **NO**  
Is this Sampling Point Within a Wetland? Yes **NO**  
Hydrologic Connectivity to Off-site Wetlands? Yes **NO** (NA)

Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes **NO** (NA)

Is this Wetland Potentially Isolated? Yes **NO** (NA)

Is the wetland mapped in the NW? Yes **NO**  
If yes, indicate classification ________  
Is the wetland a mapped state wetland? Yes **NO**  
If yes, indicate wetland ID ________
AECOM
257 West Genesee Street
Suite 400
Buffalo, New York 14202

DATA FORM
ROUTINE WETLAND DETERMINATION
Northcentral and Northeast Regional Supplement

Project Number: 60345076
Applicant: USDA

Data Point ID (i.e. 2WEWat. G): W-2

Investigator(s): J. Lyons

Landform: Hillside/Seep Toe of Slope Depressional Riparian

Landscape Position: Flat Undulating Sloping Convex Concave

Is the area a potential problem area? Yes No
Is the site significantly disturbed? Yes No
Approximate Slope (%): 1-2

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No
Do Normal Circumstances exist on site? Yes No

Hydrology

Primary Indicators (min. - 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Depositions (B2)
- Drift Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Anundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Mud Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized RPhysics 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 (min. - 2 required)
- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Mosquito Bovine (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturated Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquifer (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations
Inundation Present? Yes X No
Saturated Conditions? Yes X No
Depth of Water (inches): 1.0
Depth to Sat. Soil (inches): 0
Depth to Water (inches): 0

Stream Characteristics

Stream Type: Perennial
Morphology: Bank Width
Stream Gradient: Gentle
Substrate: Bed Rock
Flow: No Flow

Intermittent
Stream Width
Moderate
Boulder

Water Depth
Steep
Silt

Adjancnt Community Type:

Instream Conditions:
Obscured Banks
Well Defined Banks
Eroded/Undercut Bank

Deep Pools
Riffles & Pools
Overhanging Vegetation
Vegetated Channel
Other

Remarks W-2 has a large complex with mainly pro in the west & central areas. Pools in the middle of the east areas with a small pro component. This is the east side of the site. Several data points were taken due to the size of the complexity of W-2. Part of Decr 4 WNW wetlands.
north as field

Indian Falls Rd.

W1

W2

W4

W3

W2

Road

Continues to the East

House
### Vegetation

#### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acer rubrum</td>
<td>5</td>
<td>y</td>
<td>FAC</td>
</tr>
<tr>
<td>Acer saccharinum</td>
<td>5</td>
<td>y</td>
<td>FAC</td>
</tr>
<tr>
<td>Populus tremuloides</td>
<td>5</td>
<td>y</td>
<td>FAC</td>
</tr>
</tbody>
</table>

#### Small Proportion Component (9 tiles)

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salix spp.</td>
<td>10</td>
<td>y</td>
<td>FAC</td>
</tr>
</tbody>
</table>

#### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cornus sericea</td>
<td>5</td>
<td>y</td>
<td>FAC</td>
</tr>
</tbody>
</table>

#### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phalaris auriculata</td>
<td>30</td>
<td>y</td>
<td>FAC</td>
</tr>
<tr>
<td>Oenothera serrulata</td>
<td>2</td>
<td>n</td>
<td>FAC</td>
</tr>
</tbody>
</table>

#### Woody Vine Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Moss covered leg/field)</td>
<td>10</td>
<td>y</td>
<td>FAC</td>
</tr>
</tbody>
</table>

**Hydrophytic Vegetation Indicators:**

- Rapid Test for Hydrophytic Vegetation
- Dominance Test > 50%
- Prevalence Index = 3.0
- Morphological Adaptations (provide supporting data in remarks)
- Problematic Hydrophytic Vegetation (explain in remarks)

**Definitions of Vegetation Strata:**

- Tree - Woody plants 3 in. (7.8 cm) or more in diameter at breast height (DBH), regardless of height.
- Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
- Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
- Woody vines - All woody vines greater than 3.28 ft in height.

**Remarks:**

The central area (old field with surface saturation) is mostly RCC & Salix. Data presented is from east central data points outside established 11EC/11NW wetlands. Vegetation in early stages of growth.
**Soils**

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Loc</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-18</td>
<td>10YR2/2</td>
<td>98</td>
<td>10YR2/2</td>
<td>E</td>
<td>c</td>
<td>n</td>
<td>Silty loam with slight mottles</td>
<td></td>
</tr>
<tr>
<td>18-20</td>
<td>GYR7/2</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Few small or no zones (sand) clay</td>
<td></td>
</tr>
</tbody>
</table>

1. Frequency: F=Few, MA=Moderately Abundant, C=Common
2. Type: C=Concentration, D=Deposition, R=Reduced Matrix, CS=Covered or Coated Sand Grains
3. Location: P=Prone Lining, M=Matrix

**Hydric Soil Indicators**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Histosol (A1)</td>
<td>Polyvalue Below Surface (S8)</td>
</tr>
<tr>
<td>Histic Epipedon (A2)</td>
<td>Thin Dark Surface (S9)</td>
</tr>
<tr>
<td>Black Histic (A3)</td>
<td>Loamy Mucky Mineral (F1)</td>
</tr>
<tr>
<td>Hydrogen Sulphide (A4)</td>
<td>Loamy Gleyed Matrix (F2)</td>
</tr>
<tr>
<td>Stratified Layers (A5)</td>
<td>Depleted Matrix (F3)</td>
</tr>
<tr>
<td>Depleted Below Dark Surface (A11)</td>
<td>Redox Dark Surface (F8)</td>
</tr>
<tr>
<td>Dark Surface (A12)</td>
<td>Depleted Dark Surface (F7)</td>
</tr>
<tr>
<td>Sandy Mucky Mineral (S1)</td>
<td>Redox Depressions (F9)</td>
</tr>
<tr>
<td>Sandy Gleyed Matrix (S4)</td>
<td></td>
</tr>
<tr>
<td>Sandy Redox (S5)</td>
<td></td>
</tr>
<tr>
<td>Stripped Matrix (S6)</td>
<td></td>
</tr>
<tr>
<td>Dark Surface (S7)</td>
<td></td>
</tr>
</tbody>
</table>

**Problematic Hydric Soil Indicators**

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 cm Muck (A10)</td>
<td>Coast Prairie Redox (A16)</td>
</tr>
<tr>
<td>5 cm Mucky Peat or Peat (S3)</td>
<td>Dark Surface (S7)</td>
</tr>
<tr>
<td>Polyvalue Below Surface (S8)</td>
<td>Thin Dark Surface (S9)</td>
</tr>
<tr>
<td>Iron-Manganese Masses (F12)</td>
<td>Very Shallow Dark Surface (TF12)</td>
</tr>
<tr>
<td>Pediment Floodplain Soils (F19)</td>
<td>Other (Explain in remarks)</td>
</tr>
<tr>
<td>Mesic Spodic (T9)</td>
<td></td>
</tr>
<tr>
<td>Red Parent Material (TF2)</td>
<td></td>
</tr>
</tbody>
</table>

**Restrictive Layer (if observed)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Depth (inches):</th>
</tr>
</thead>
</table>

**Remarks**

Muddy soils within 1 foot of clay layer @ 18". Other data points had larger/more evident mottling.

**Wetland Determination**

<table>
<thead>
<tr>
<th>Question</th>
<th>Yes</th>
<th>No</th>
<th>Unknown</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrophytic Vegetation Present?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Hydric Soil Present?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Wetland Hydrology Present?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Does Hydrologic Connectivity to Off-site Wetlands?</td>
<td>Yes</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Does Any Part of this Delineated Wetland Stream Extend Past the Flagged Boundary?</td>
<td>Yes</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Is this Sampling Point within a Wetland?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Is this Wetland Potentially Isolated?</td>
<td>Yes</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Is the wetland mapped in the NWI?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Is the wetland a mapped state wetland?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Hydrologic Connectivity to Off-site Wetlands?</td>
<td>Yes</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Does Any Part of this Delineated Wetland Stream Extend Past the Flagged Boundary?</td>
<td>Yes</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Is this Sampling Point within a Wetland?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Is this Wetland Potentially Isolated?</td>
<td>Yes</td>
<td>No</td>
<td>N/A</td>
</tr>
<tr>
<td>Is the wetland mapped in the NWI?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Is the wetland a mapped state wetland?</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
</tbody>
</table>

If yes, indicate classification

If yes, indicate wetland ID: **AK-14**
DATA FORM
ROUNDET WETLAND DETERMINATION
Northcentral and Northeast Regional Supplement
Project Number: 6034 S076
Applicant: USDA
Data Point ID (i.e. 2W @ Wet. G): UP-2
Nearest Flag to Data Point: undefined

Investigator(s): J. Lyons
Landform: Hillside/Seep Toe of Slope Depressional Riparian
Landscape Position: Flat Undulating Sloping Convex Concave
Are climatic/hydrologic conditions on the site typical for this time of year? Yes No

Do Normal Circumstances exist on site? Yes No

Hydrology
Primary Indicators (min. - 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A5)
- 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)
- Malt Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhizosphere on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction In Tilled Soil (C6)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Secondary Indicators (min. - 2 required)
- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Most Trim Lines (B15)
- Dry-Season Water Table (C2)
- Crystalline Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressful Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations
Inundation Present? Yes No
Saturated Conditions? Yes No
Depth of Water (inches):
Depth to Sat. Soil (inches):
Depth to Water (inches):

Stream Characteristics
Stream type: Perennial
Morphology: Bank Width
Stream Gradient: Gentle
Substrate: Bed Rock
Flow: No Flow
Intermittent Stream Width
Moderate
Boulder
Gentle
Water Depth
Steep
Silt
Cobble

Adjacent Community Type: 

Instream Conditions:
- Obscurred Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Pockets & Pools
- Vegetated Channel
- Eroded/Undecorated Bank
- Other

Remarks: Adapts to the north of eastern portion of W2 (POS) similar to UP-1.
### Vegetation

#### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Prevalence Index worksheet:**
- Total % Cover of:
  - Multiply by:
    - OBL species: \(\times 1\)
    - FACW species: \(\times 2\)
    - FAC species: \(\times 3\)
    - FACU species: \(\times 4\)
    - UPL species: \(\times 5\)

\[\text{Prevalence Index} = \frac{A}{B}\]

#### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><em>Trifolium</em> spp</td>
<td>15</td>
<td>Y</td>
<td>FACU</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover**

#### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td><em>Trifolium</em> spp</td>
<td>15</td>
<td>Y</td>
<td>FACU</td>
</tr>
<tr>
<td>2</td>
<td><em>Taraxacum officinale</em></td>
<td>5</td>
<td>Y</td>
<td>FACU</td>
</tr>
<tr>
<td>3</td>
<td><em>Medicago pratensis</em></td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>4</td>
<td><em>Solidago canadensis</em> (GRASS)</td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover**

**Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
- Dominance Test > 60%
- Prevalence Index is ≤ 50%
- Morphological Adaptations (provide supporting data in remarks)
- Problematic Hydrophytic Vegetation (explain in remarks)
- Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

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

**Remarks**
- *Seems to be edge of successional field.*
### Project Number: 60345026
### Applicant: USDA
### Soil Map Unit: Phelps County

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

<table>
<thead>
<tr>
<th>Depth (Inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type¹</th>
<th>Loc²</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>10YR 3/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>silty loam with sand &amp; few small rocks</td>
</tr>
<tr>
<td>16-20</td>
<td>10YR 5/8</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>sandy loam</td>
</tr>
</tbody>
</table>

¹Frequency: F= Few, M= Moderately Abundant, C= Common
²Type: C= Concentration, D= Depletion, R= Reduced, M= Matrix, G= Covered or Coated Sand Grains
³Location: PL= Pore Lining, M= Matrix

#### Hydric Soil Indicators
- Histosol (A1)
- Histic Epipedon (A2)
- Black Hist (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)

- Polyvalent Below Surface (S3)
- Thin Dark Surface (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Depleted Dark Surface (F7)

#### Problematic Hydric Soil Indicators²
- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalent Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils (F18)
- Mesic Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

#### Wetland Determination
- Hydrophytic Vegetation Present? Yes No
- Hydric Soil Present? Yes No
- Wetland Hydrology Present? Yes No
- Is this Sampling Point within a Wetland? Yes No
- Is the wetland mapped in the NWI? Yes No
- Is the wetland a mapped state wetland? Yes No
- Hydrologic Connectivity to Off-site Wetlands? Yes No
- Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes No
- Is this Wetland Potentially Isolated? Yes No

If yes, indicate classification:
If yes, indicate wetland ID:

**Remarks:** Similar to 04-1 - typical upland soils.
DATA FORM
ROUTINE WETLAND DETERMINATION
Northcentral and Northeast Regional Supplement

Project Number: 60345076
Applicant: USDVA
Town: Pennbrok
County: Genesee
State: New York
Community: Penn/PSA

Data Point ID (i.e. 2W@Win. G): W-3
Nearest Flag to Data Point: 

Investigator(s): J. Lyons

Is the area a potential problem area? Yes
Is the site significantly disturbed? No
Approximate Slope (%): 1:3

Hydrology

Primary Indicators (min. - 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- 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)

Secondary Indicators (min. - 2 required)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Melt Deposits (B15)
- Hydrogen Sulphide Odor (C1)
- Oxidized Rhythmites on Living Roots (C3)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C9)
- Thin Muck Surface (C7)
- Other (Explain in Remarks)

Field Observations
Inundation Present? Yes
Saturated Conditions? Yes
Depth of Water (inches): 0
Depth to Sat. Soil (inches): 1-6
Depth to Water (inches): 1-6

Stream Characteristics

Stream type: Perennial
Morphology: Bank Width
Stream Gradient: Gentle
Substrate: Bed Rock
Flow: No Flow

Intermittent Stream Width
Water Depth: Steep
Cobble
Gravel

Adjacents Community Type: 

Instream Conditions:
- Obscured Banks
- Well Defined Banks
- Eroded/Undersized Bank
- Deep Pools
- Riffles & Pools
- Overhanging Vegetation
- Vegetated Channel
- Other

Remarks: Small wetland in sw corner of 6 acres extending to northeast.
**Vegetation**

**Tree Stratum (Plot size: 30-foot radius)**

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Prevalence Index worksheet:**

<table>
<thead>
<tr>
<th></th>
<th>Multiply by:</th>
</tr>
</thead>
<tbody>
<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>
</tbody>
</table>

Column Totals: (A)

Prevalence Index = (B/A)

**Total Cover =**

**Sapling/Shrub Stratum (Plot size: 15-foot radius)**

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Salix spp</td>
<td>15</td>
<td>y</td>
<td>FACW</td>
</tr>
<tr>
<td>2.</td>
<td>Corinus niger</td>
<td>16</td>
<td>y</td>
<td>FACW</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover =**

**Herb Stratum (Plot size: 5-foot radius)**

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Phalaris arundinacea</td>
<td>50</td>
<td>y</td>
<td>FACW</td>
</tr>
<tr>
<td>2.</td>
<td>Salix spp</td>
<td>10</td>
<td>y</td>
<td>FACW</td>
</tr>
<tr>
<td>3.</td>
<td>Oenothera biennis</td>
<td>10</td>
<td>y</td>
<td>FACW</td>
</tr>
<tr>
<td>4.</td>
<td>Sagittaria latifolia</td>
<td>5</td>
<td>y</td>
<td>FACW</td>
</tr>
<tr>
<td>5.</td>
<td>Scorpus cynosorus</td>
<td>10</td>
<td>y</td>
<td>BBF</td>
</tr>
</tbody>
</table>

**Total Cover =**

**Woody Vine Stratum (Plot size: 30-foot radius)**

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover =**

**Remarks**

- seamless mix of species
- smaller shrub increases (seems to be in a reversion stage)
**Soils**

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Loc*</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 14</td>
<td>10YR 2/2</td>
<td>70</td>
<td>10YR 2/6</td>
<td>F</td>
<td>C</td>
<td>m</td>
</tr>
</tbody>
</table>

*Frequency: F= Few, MA= Moderately Abundant, C= Common
Type: C= Concentration, D= Deglution, RM= Reduced Matrix, CS= Covered or Coated Sand Grains
Loc: PL= Pore Lining, M= Matrix

**Hydric Soil Indicators**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulphide (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 (S9)
- Dark Surface (S7)
- Polysoluble Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depression (F8)
- Polyvalue Below Surface (S8)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils F19
- Spodic Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

**Problematic Hydric Soil Indicators**

- 2 cm Muck (A10)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils F19
- Spodic Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

**Restrictive Layer (If observed)**

- Type: Rock
- Depth (inches): 14

**Remarks**

- C horizon missing in spots. This area may have been impacted in the past. (?) may have rock fill in lower horizons.

**Wetland Determination**

- Hydrophytic Vegetation Present? Yes No
- Hydrologic Connectivity to Off-site Wetlands? Yes No N/A
- Hydric Soil Present? Yes No
- Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes No N/A
- Wetland Hydrology Present? Yes No
- Is this Wetland Potentially Isolated? Yes No N/A
- Is this Sampling Point within a Wetland? Yes No
- If yes, indicate classification
- Is the wetland mapped in the NWI? Yes No
- If yes, indicate wetland ID
- Is the wetland a mapped state wetland? Yes No
DATA FORM
ROUTE WETLAND DETERMINATION
Northcentral and Northeast Region Supplement

Project Number: 60345076
Sampling Date: 28 Apr 2015
Applicant: USDA

Investigator(s): S. Lyons

Landform: Hillside/Seep Toe of Slope Depressional Riparian

Is the area a potential problem area? Yes [No]

Nearest Flag to Data Point:

Landscape Position: Flat Undulating Sloping Convex Concave

Is the site significantly disturbed? Yes [No]

Approximate Slope (%): 13

Are climatic/hydrologic conditions on the site typical for this time of year? Yes [No]

Do normal circumstances exist on site? Yes [No]

Hydrology

Primary Indicators (min. 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Rippled Deposits (B3)
- Algal Mat or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Leaves (S9)
- Aquatic Fauna (B19)
- 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 (min. 2 required)
- Surface Soil Cracks (G6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Spotted Water Table (C2)
- Clay Tablet (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquifer (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations
Inundation Present? Yes [No]
Saturated Conditions? Yes [No]

Depth of Water (inches):
Depth to Sat. Soil (inches):
Depth to Water (inches):

Stream Characteristics

Stream type: Perennial
Morphology: Bank Width
Stream Gradient: Gentle
Substrate: Bed Rock
Flow: No Flow

Intermediate Width
Morphology: Stream Width
Stream Gradient: Moderate
Substrate: Boulder
Flow: Gentle

Water Depth
Morphology: Water Depth
Stream Gradient: Steep
Substrate: Cobble
Flow: Moderate

Adjacent Community Type:

Instream Conditions:
- Obscured Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Riffles & Pools
- Vegetated Channel
- Eroded/Undercut Bank
- Other

Remarks: Upland area north of W3 in succession growth field.

US Army Corps of Engineers Northcentral and Northeast Region - Interim Version
## Vegetation

### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Prevalence Index worksheet:**
- Total % Cover of:
  - OBL species: x 1 =
  - FACW species: x 2 =
  - FAC species: x 3 =
  - FACU species: x 4 =
  - UPL species: x 5 =
  - Column Totals: (A) =

**Prevalence Index** = B/A =

### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>20 y FACU</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>10 y FACW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>20 y FACW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>20 y FACW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>5 N FAC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
- Dominance Test >50%
- Prevalence Index ≤ 0.6
- Morphological Adaptations (provide supporting data in remarks)
- Problematic Hydrophytic Vegetation (explain in remarks)

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

### Woody Vine Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Remarks**

- Densely (US) (as) field
- Some dead veg (Sapindae) present
- bare ground
### Soils

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Log</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-16</td>
<td>10%</td>
<td>R3/8</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>sandy loam w/ few small rocks</td>
</tr>
</tbody>
</table>

1. Frequency: F=Few, MA=Moderately Abundant, C=Common
2. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains
3. Location: PL=Pore Lining, M=Matrix

### Hydric Soil Indicators

- Histosol (A1)
- Histic Epipedon (A2)
- Black Hist (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)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depolyed Matrix (F3)
- Redox Dark Surface (F6)
- Redox Depressions (F6)

*Indicators of hydorphic vegetation and wetland hydrology must be present, unless disturbed or problematic.

### Problematic Hydric Soil Indicators

- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Massee (F12)
- Piedmont Floodplain Soils F19
- Mosso Spectic (T6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

### Wetland Determination

- Hydrophytic Vegetation Present? Yes No
- Hydric Soil Present? Yes No
- Wetland Hydrology Present? Yes No
- Is this Sampling Point Within a Wetland? Yes No
- Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes No
- Is this Wetland Potentially Isolated? Yes No
- Is the wetland mapped in the NWI? Yes No
- Is the wetland a mapped state wetland? Yes No
- If yes, indicate classification
- If yes, indicate wetland ID

US Army Corps of Engineers Northcentral and Northeast Region - Interim Version
DATA FORM

Routine Wetland Determination
Northcentral and Northeast Regional Supplement

Project Number: 60345076
Applicant: USDI

Data Point ID (i.e. 2W @ Wet. G): W 4
Nearest Flag to Data Point: Small Pines

Investigator(s): J. Lyons

Is the area a potential problem area? Yes No
Is the site significantly disturbed? Yes No
Approximate Slope (%): 1 - 2

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No
Do Normal Circumstances exist on site? Yes No

Hydrology

Primary Indicators (min. - 1 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)

Secondary Indicators (min. - 2 required)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B13)
- Muck 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)

Field Observations

Inundation Present? Yes No
Saturated Conditions? Yes No
Depth of Water (inches): 4 inches
Depth to Sat. Soil (inches): 0
Depth to Water (inches): 0

Stream Characteristics

Stream type: Perennial
Morphology: Bank Width: Gentle
Stream Gradient: Bed Rock
Substrate: Sand
Flow: No Flow

Intemittent
Stream Width: Moderate
Water Depth: Steep

Adjacent Community Type:

Instream Conditions:
- Obscured Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Riffles & Pools
- Vegetated Channel
- Eroded/Undercut Bank
- Other

Remarks

This area is separated from W2 by a hard gravel access road. A small section of fringe is present. Some open water areas, large open areas exist. (Handwritten notes: US Army Corps of Engineers)
<table>
<thead>
<tr>
<th>Vegetation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tree Stratum</strong> (Plot size: 30-foot radius)</td>
</tr>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
</tr>
<tr>
<td>5.</td>
</tr>
<tr>
<td><strong>Total Cover</strong> = 10</td>
</tr>
</tbody>
</table>

| **Sapling/Shrub Stratum** (Plot size: 15-foot radius) |
| 1. | Salix spp. | 5 | N | FACW |
| 2. | Cornus sericea | 5 | N | FACW |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| **Total Cover** = 10 |

| **Herb Stratum** (Plot size: 5-foot radius) |
| 1. | Typha spp. (latifolia) | 70 | Y | OBL |
| 2. | Carex spp. (Juncus effusus) | 5 | N | FACW |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| **Total Cover** = 75 |

| **Woody Vine Stratum** (Plot size: 30-foot radius) |
| 1. | | | | |
| 2. | | | | |
| 3. | | | | |
| 4. | | | | |
| 5. | | | | |
| **Total Cover** |

**Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
- Dominance Test ≥50%
- Prevalence Index ≥3.0
- Morphological Adaptations (provide supporting data in remarks)
- Proximate Hydrophytic Vegetation (explain in remarks)

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

**Remarks**
- WY interior has cattails - a fringe of cattails on west side of pond water to ~10".
- Sample more within edge of cattail area.
**Soils**

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency¹</th>
<th>Type²</th>
<th>Loc³</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 3</td>
<td>10YR 2/1</td>
<td>100</td>
<td>10YR 5/6</td>
<td>Muck</td>
<td>C</td>
<td>M</td>
<td>Silty Loam with very little sand.</td>
</tr>
<tr>
<td>3 - 12</td>
<td>10YR 2/2</td>
<td>90</td>
<td>10YR 5/6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12 - 20</td>
<td>10YR 2/2</td>
<td>90</td>
<td>10YR 5/6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹Frequency: F=Few, MA=Moderately Abundant, C=Common
²Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains
³Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators**

- Histosol (A1)
- Histc Epipedon (A2)
- Black Histc (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Dark Umbric Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

- Polyvalue Below Surface (S8)
- Thin Dark Surface (S6)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

**Problematic Hydric Soil Indicators**

- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S6)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils (F19)
- Mecic Spodic (T16)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

**Restrictive Layer (if observed)**

<table>
<thead>
<tr>
<th>Type:</th>
<th>Depth (inches):</th>
</tr>
</thead>
</table>

**Remarks**

A large amount of leaf litter from cattails on surface with saturated soils - strong odor.

---

**Wetland Determination**

- **Hydric Vegetation Present?** Yes ☑ No
- **Hydric Soil Present?** Yes ☑ No
- **Wetland Hydrology Present?** Yes ☑ No
- **Is this Sampling Point Within a Wetland?** Yes ☑ No
- **Is the wetland mapped in the NWI?** Yes ☑ No
- **Is the wetland a mapped state wetland?** Yes ☑ No

**Hydrologic Connectivity to Off-site Wetlands?** Yes ☑ No / N/A
**Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary?** Yes ☑ No / N/A
**Is this Wetland Potentially Isolated?** Yes ☑ No / N/A

If yes, indicate classification ____________
If yes, indicate wetland ID ____________

US Army Corps of Engineers
Northcentral and Northeast Region - Interim Version
Data Form
Routine Wetland Determination
Northcentral and Northeast Regional Supplement

Project Number: 60345076
Applicant: USDA

Data Point ID (i.e., 2W@Wet. G.): UP-7
Nearest Flag to Data Point:

Investigator(s): Lyons

Landform: Hillside/Seep, Toe of Slope, Depressional, Riparian

Landscape Position: Flat, Undulating, Sloping, Convex, Concave

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No

Do Normal Circumstances exist on site? Yes No

Hydrology

Primary Indicators (min. 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (A1)
- 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)

Secondary Indicators (min. 2 required)
- Water-Stained Leaves (B9)
- Aquatic Fauna (B10)
- Mammal Traps (B11)
- 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)

Field Observations

Inundation Present? Yes No Depth of Water (inches):
Saturated Conditions? Yes No Depth to Sat. Soil (inches):

Depth to Water (inches):

Stream Characteristics

Stream type: Perennial
Morphology: Bank Width
Stream Gradient: Gentle
Substrate: Bed Rock
Flow: No Flow

Intermittent
Stream Width: Moderate
Water Depth: Deep
Boulder
Clay

Adjacent Community Type:

Instream Conditions:
- Obscured Banks
- Well Defined Banks
- Eroded/Undercut Bank

Deep Pools
Ripples & Pools
Overhanging Vegetation
Vegetated Channel

Remarks
Upland reverting field, south of W4.

Dead veg.
### Vegetation

#### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dominance Test worksheet:**
- Number of Dominant Species That Are OBL, FACW, or FAC: __________
- Total Number of Dominant Species Across All Strata: __________
- Percent of Dominant Species That Are OBL, FACW, or FAC: __________

**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: __________
- Prevalence Index $= B/A = $ __________

#### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover =** __________

#### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>10</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>40</td>
<td>7</td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover =** __________

#### Woody Vine Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover =** __________
**Soils**

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Loc</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20</td>
<td></td>
<td>10243/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sandy Loam with few rocks</td>
</tr>
</tbody>
</table>

1\(^{st}\) Frequency: F=Few, M=Moderately Abundant, C=Common
2\(^{nd}\) Type: C=Concentration, D=Deposition, RM=Reduced Matrix, CS=Covered or Coated Sand Grains
3\(^{rd}\) Location: PL=Pore Lining, M=Matrix

**Hydric Soil Indicators**

- Histosol (A1)
- Histic Epipedon (A2)
- Black Histic (A3)
- Hydrogen Sulphide (A6)
- Stratified Layers (A5)
- Depressed Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)

**Problematic Hydric Soil Indicators**

- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depressed Matrix (F3)
- Depressed Dark Surface (F6)
- Redox Dark Surface (F7)
- Redox Depressions (F8)

**Restrictive Layer (If observed)**

Type: __________

Depth (inches): __________

**Remarks**

Typical as field soil upslope from WY.

Western side is residential yards.

**Wetland Determination**

Hydrophytic Vegetation Present? Yes No
Hydric Soil Present? Yes No
Wetland Hydrology Present? Yes No
Is this Sampling Point Within a Wetland? Yes No
Is the wetland mapped in the NWI? Yes No
Is the wetland a mapped state wetland? Yes No

Hydrologic Connectivity to Off-site Wetlands? Yes No
Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes No
Is this Wetland Potentially Isolated? Yes No

If yes, indicate classification: __________

If yes, indicate wetland ID: __________
**DATA FORM**

**Routine Wetland Determination**

**Neighborhood and Northeast Regional Supplement**

**Project Number:** 60345076

**Applicant:** USDA

**Data Point ID (i.e. 2W80W, G):** W5

**Nearest Flag to Data Point:**

**Investigator(s):** J. Lyons

**Landform:** Hillside/Steep Toe of Slope Depressional Riparian

**Landscape Position:** Flat Undulating Sloping Convex Concave

Are climatic/hydrologic conditions on the site typical for this time of year? **Yes** No

**Hydrology**

Primary Indicators (min. - 1 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)

Secondary Indicators (min. - 2 required)
- 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)

**Field Observations**

- Inundation Present? **Yes** No
- Saturated Conditions? **Yes** No

<table>
<thead>
<tr>
<th>Depth of Water (inches):</th>
<th>1-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depth to Sat. Soil (inches):</td>
<td>5</td>
</tr>
<tr>
<td>Depth to Water (inches):</td>
<td>0</td>
</tr>
</tbody>
</table>

**Stream Characteristics**

**Stream type:** Perennial

**Morphology:** Bank Width

**Stream Gradient:** Moderate

**Substrate:** Bed Rock Sand

**Flow:** No Flow

**Adjacent Community Type:**

**Instream Conditions:**
- Obscured Banks
- Well Defined Banks
- Eroded/Undercut Bank

**Deep Pools**

**Riffles & Pools**

**Overhanging Vegetation**

**Vegetation Channel**

**Other**

**Remarks**

WS is a 50 ft/15 m complex with a drainage channel leading to a smaller one which drains south towards I-90. It has a major highway drainage. Open water areas.
### Vegetation

#### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

#### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Alnus incana</em></td>
<td>15</td>
<td>Y FACW</td>
<td></td>
</tr>
<tr>
<td>2. <em>Cornus sericea</em></td>
<td>10</td>
<td>Y FACW</td>
<td></td>
</tr>
<tr>
<td>3. <em>Acer rubrum</em></td>
<td>2</td>
<td>N FAC</td>
<td></td>
</tr>
</tbody>
</table>

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

#### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Oxalis sensibilis</em></td>
<td>5</td>
<td>Y FACW</td>
<td></td>
</tr>
<tr>
<td>2. <em>Lychnis spp.</em></td>
<td>5</td>
<td>Y FACW</td>
<td></td>
</tr>
<tr>
<td>3. <em>Carex spp. Young</em></td>
<td>5</td>
<td>Y FACW</td>
<td></td>
</tr>
</tbody>
</table>

**Hydrophytic Vegetation Indicators:**
- Rapid Test for Hydrophytic Vegetation
- Dominance Test > 50%
- Prevalence index is < 1.0
- Morphological Adaptations (provide supporting data in remarks)
- Problematic Hydrophytic Vegetation (explain in remarks)

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

### Remarks

Small amounts of veg. present. FA on water surface & moss on logs.
Project Number: 60345076
Applicant: USD/VA
Sampling Date: 28 Apr/2015
Data Point ID: W5

Soil Map Unit: Veddeharts/Lamson (GnB)\text{\textit{Ell}}

### Soils

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Loc</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-4</td>
<td>10YR 2/1</td>
<td>100</td>
<td>10YR 2/1</td>
<td>1</td>
<td>c</td>
<td>Muck</td>
<td>Silty Loam, 4/1, some sand</td>
</tr>
<tr>
<td>4-16</td>
<td>10YR 2/2</td>
<td>95</td>
<td>10YR 2/1</td>
<td></td>
<td>c</td>
<td></td>
<td>Silty Loam, 4/1, some sand, siltic debris</td>
</tr>
<tr>
<td>16-20</td>
<td>10YR 2/2</td>
<td>90</td>
<td>10YR 2/1</td>
<td></td>
<td>c</td>
<td></td>
<td>Silty Loam, some clay</td>
</tr>
<tr>
<td></td>
<td>6GY 2/4 1/2</td>
<td></td>
<td></td>
<td></td>
<td>c</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Frequency: F-Few, MA-Moderately Abundant, C-Common

*Type: C-Concentration, D-Depletion, RM-Reduced Matrix, CS-Covered or Coated Sand Grains

*Location: PL-Pore Lining, M-Matrix

### Hydric Soil Indicators

- Histosol (A1)
- Histosol 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 Glyeayd Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)

### Polyvalue Below Surface (S8)

- Thin Dark Surface (S9)
- Loam Mucky Mineral (F1)
- Loam Glyeayd Matrix (F9)
- Depleted Matrix (F3)
- Dark Surface (F7)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

### Problematic Hydric Soil Indicators

- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils (F19)
- Mesic Spodic (T9)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

### Restrictive Layer (if observed)

- Type: 
- Depth (inches): 

### Notes

- Varies degree of open water/ mucky soils.
- Humus/loamy terrain in P.O. sections

### Wetland Determination

Hydrophytic Vegetation Present? Yes No
Hydro Soil Present? Yes No
Wetland Hydrology Present? Yes No

- If yes, indicate classification
- If yes, indicate wetland ID

Hydrologic Connectivity to Off-site Wetlands? Yes No N/A
Does Any Part of this Delineated Wetland Stream Extend beyond the Flagged Boundary? Yes No N/A
Is this Wetland Potential Isolated? Yes No N/A
DATA FORM
ROUTINE WETLAND DETERMINATION
Northcentral and Northeast Region Supplement:

Project Number: 28435076
Town: Upstate
Applicant: USDA
County: New York
Nearest Flag to Data Point: UP-5
State: New York
Community: Uplands

Investigator(s): J Lyons
Landform: Hillside/Seep Toe of Slope Depressional Riparian
Is the area a potential problem area? Yes/No
Landscape Position: Flat Undulating Sloping Convex Concave
Is the site significantly disturbed? Yes/No
Are climatic/hydrologic conditions on the site typical for this time of year? Yes/No
Approximate Slope (%): 1-2
Do Normal Circumstances exist on site? Yes/No

Hydrology
Primary indicators (min. 1 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)
- Muli Deposits (B15)
- Hydrogen Sulfide Odor (C1)
- Oxidized Rhythropheres 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 (min. 2 required)
- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Crayfish Burrows (C8)
- Saturation Visible in Aerial Imagery (C9)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations
Inundation Present? Yes/No
Saturated Conditions? Yes/No
Depth of Water (inches):
Depth to Sat. Soil (inches):
Depth to Water (inches):

Stream Characteristics
Stream type: Perennial
Stream Gradient: Gentle
Substrate: Bedrock
Flow: No Flow
Perennial Bank Width
Intermittent Stream Width Moderate
Water Depth Steep

Adjacent Community Type:__________________________

Instream Conditions:
- Obscured Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Riffles & Pools
- Vegetated Channel
- Eroded/Undercut Bank
- Other

Remarks:
Upgraders to south west flow

US Army Corps of Engineers
Northcentral and Northeast Region - Interim Version
### Vegetation

**Tree Stratum (Plot size: 30-foot radius)**

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Number of Dominant Species That Are OBL, FACW, or FAC: (A)</td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td>Total Number of Dominant Species Across All Strata: (B)</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td>Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td>Prevalence Index worksheet:</td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td>Total % Cover of: Multiply by:</td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td>OBL species x 1 =</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FACW species x 2 =</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FAC species x 3 =</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>FACU species x 4 =</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>UPL species x 5 =</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Column Totals: (A) (B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Prevalence Index = B/A =</td>
</tr>
</tbody>
</table>

**Sapling/Shrub Stratum (Plot size: 15-foot radius)**

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
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<td></td>
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<td>---</td>
</tr>
</tbody>
</table>

| = Total Cover |

**Herb Stratum (Plot size: 5-foot radius)**

<table>
<thead>
<tr>
<th></th>
<th>Species</th>
<th>% Cover</th>
<th>OBL</th>
<th>FACW</th>
<th>FAC</th>
<th>FACU</th>
<th>UPL</th>
<th>Hydrophytic Vegetation Indicators:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td><em>Phalaris canariensis</em></td>
<td>20</td>
<td>Y</td>
<td></td>
<td>Y</td>
<td></td>
<td></td>
<td>Rapid Test for Hydrophytic Vegetation</td>
</tr>
<tr>
<td>2.</td>
<td><em>Echinochloa spp.</em></td>
<td>30</td>
<td>Y</td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td>Dominance Test &gt;50%</td>
</tr>
<tr>
<td>3.</td>
<td><em>Taraxacum officinale</em></td>
<td>5</td>
<td>Y</td>
<td></td>
<td>Y</td>
<td></td>
<td></td>
<td>Prevalence Index &gt;3.0</td>
</tr>
<tr>
<td>4.</td>
<td><em>Trifolium spp.</em></td>
<td>5</td>
<td>Y</td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
<td>Morphological Adaptations* (provide supporting data in remarks)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Problematic Hydrophytic Vegetation* (explain in remarks)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Y</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>*Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</td>
</tr>
</tbody>
</table>

**Definitions of Vegetation Strata:**

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

### Remarks

<p>| | | | | |</p>
<table>
<thead>
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</tbody>
</table>

| = Total Cover |

**Woody Vine Stratum (Plot size: 30-foot radius)**

<p>| | | | | |</p>
<table>
<thead>
<tr>
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</tr>
</tbody>
</table>

| = Total Cover |
Project Number: 60345076  
Applicant: USDA  
Soil Map Unit: Galen Very Fine Sandy Loam  
Sampling Date: 28 April 2015  
Data Point ID: UP  

### Soils

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Redox Features</th>
<th>Type</th>
<th>Loc</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-17</td>
<td>107R 3/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>sandy loam with rocks</td>
</tr>
</tbody>
</table>

*Frequency: F= Few, MA= Moderately Abundant, C= Common

*Type: C= Concentration, D= Depletion, RM= Reduced Matrix, CS= Covered or Coated Sand Grains

*Location: PL= Pore Lining, M= Matrix

### Hydric Soil Indicators

- Histosol (A1)
- Helio Epipedon (A2)
- Black Hist (A3)
- Hydrogen Sulphide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Glyeysd Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S8)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Minerals (F1)
- Loamy Glyeysd Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

### Problematic Hydric Soil Indicators

- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils (F18)
- Mesic Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

### Restrictive Layer (if observed)

**Type:** Rock  
**Depth (inches):** 17

### Remarks

Upland area - somewhat maintained.

### Wetland Determination

- Hydrophytic Vegetation Present? Yes  
- Hydrologic Connectivity to Off site Wetlands? Yes  
- Hydric Soil Present? Yes  
- Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes  
- Wetland Hydrology Present? Yes  
- Is this Sampling Point Within a Wetland? Yes  
- Wetland Potential Isolated? Yes  
- Is the wetland mapped in the NWI? No  
- Is the wetland a mapped state wetland? Yes

If yes, indicate classification

If yes, indicate wetland ID

---

US Army Corps of Engineers  
Northcentral and Northeast Region - Interim Version
**DATA FORM**

**Routine Wetland Determination**

- **Project Number:** 60345076
- **Applicant:** USDA
- **Data Point ID (i.e. 2W NW 32, R.):** WI (ext)
- **Town:** Remboke
- **County:** Genesee
- **State:** New York
- **Community:** Rem/855
- **Investigator(s):** J. Lyons R. Runge
- **Landform:** Hillside/Steep, Toe of Slope, Riparian
- **Landscape Position:** Flat, Undulating, Sloping, Convex, Concave
- **Is the area a potential problem area?** Yes/No
- **Is the site significantly disturbed?** Yes/No
- **Approximate Slope (%):** 2-4
- **Hydrology**
  - Water Stained Leaves (B9)
  - Aquatic Fauna (B13)
  - Mott Deposits (B15)
  - Recent Iron Reduction in Tilled Soils (C6)
  - Thin Muck Surface (C7)
  - Other (Explain in Remarks)
  - Drainage Patterns (B10)
  - Moss Trim Lines (B12)
  - Dry-Season Water Table (C2)
  - Crayfish Burrows (C9)
  - Aquatic Plant Distribution (D-1)
  - Geomorphic Position (D2)
  - Shallow Aquitard (D3)
  - Microtopographic Relief (D4)
  - FAC-Neutral Test (D6)
- **Inundation Present?** Yes/No
- **Saturated Conditions?** Yes/No
- **Depth of Water (inches):** [Indicate depth in "in."
- **Depth to Sat. Soil (inches):** [Indicate depth in "in.
- **Depth to Water (inches):** [Indicate depth in "in.
- **Stream Characteristics**
  - **Stream type:** Perennial
  - **Morphology:** Bank Width: Gentle
  - **Stream Gradient:** Bed Rock: Moderate
  - **Substrate:** Boulder: Sleep
  - **Flow:** Gentle
  - **Adjacents Community Type:** N/A
  - **Instream Conditions:**
    - Obscured Banks
    - Well Defined Banks
    - Eroded/Undercut Bank
  - **Deep Pools:**
  - **Overhanging Vegetation:**
  - **Vegetated Channel:**
- **Remarks**

This wetland is an extension of a small pool/ct wetland on the parcel edge. It is mostly Pm soil with a PSS fringe & few trees in the SE corner. Historic drainage swales are present.
<table>
<thead>
<tr>
<th>Tree Stratum (Plot size: 30-foot radius)</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
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<tr>
<td>3.</td>
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<tr>
<td>4.</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Dominant Species That Are OBL, FACW, or FAC: <strong>(A)</strong></td>
</tr>
<tr>
<td>Total Number of Dominant Species Across All Strata: <strong>(B)</strong></td>
</tr>
<tr>
<td>Percent of Dominant Species That Are OBL, FACW, or FAC: <strong>(A/B)</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Prevalence Index worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total % Cover of:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OBL species</th>
<th>x1 =</th>
</tr>
</thead>
<tbody>
<tr>
<td>PACW species</td>
<td>x2 =</td>
</tr>
<tr>
<td>FAC species</td>
<td>x3 =</td>
</tr>
<tr>
<td>FACU species</td>
<td>x4 =</td>
</tr>
<tr>
<td>UPL species</td>
<td>x5 =</td>
</tr>
<tr>
<td>Column Totals:</td>
<td><strong>(A)</strong></td>
</tr>
<tr>
<td><strong>(B)</strong></td>
<td></td>
</tr>
<tr>
<td>Prevalence Index = <strong>B/A</strong></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sapling/Shrub Stratum (Plot size: 15-foot radius)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Salix</em> spp</td>
</tr>
<tr>
<td>2. <em>Corylus virginica</em></td>
</tr>
</tbody>
</table>

| Total Cover = |

<table>
<thead>
<tr>
<th>Herb Stratum (Plot size: 5-foot radius)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. <em>Phalaris arundinacea</em></td>
</tr>
<tr>
<td>2. <em>Sedum vanosulans</em></td>
</tr>
<tr>
<td>3. <em>Oenothera</em></td>
</tr>
<tr>
<td>4. <em>Aster tataricus</em></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hydrophytic Vegetation Indicators:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rapid Test for Hydrophytic Vegetation</td>
</tr>
<tr>
<td>Dominance Test &gt;50%</td>
</tr>
<tr>
<td>Prevalence Index is &lt;3.0</td>
</tr>
<tr>
<td>Morphological Adaptations (provide supporting data in remarks)</td>
</tr>
<tr>
<td>Problematic Hydrophytic Vegetation (explain in remarks)</td>
</tr>
<tr>
<td>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Definitions of Vegetation Strata:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (GBH), regardless of height.</td>
</tr>
<tr>
<td>Sapling/shrub - Woody plants less than 3 in. DBH greater than 3.28 ft (1 m) tall.</td>
</tr>
<tr>
<td>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</td>
</tr>
<tr>
<td>Woody vines - All woody vines greater than 3.28 ft in height.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>distinctive veg ches - RCG 1/2 golden rod (con.)</td>
</tr>
<tr>
<td>Common emergent spot picked for data:</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Woody Vine Stratum (Plot size: 30-foot radius)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
<tr>
<td>4.</td>
</tr>
<tr>
<td>5.</td>
</tr>
</tbody>
</table>

| Total Cover = |
### Soils
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators).

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Location</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2</td>
<td>10YR 2/1</td>
<td>100</td>
<td>10YR 6/2</td>
<td>F</td>
<td>C</td>
<td>m</td>
<td>Silty mud (Sheep)</td>
</tr>
<tr>
<td>2-18</td>
<td>10YR 2/2</td>
<td>90</td>
<td>10YR 6/2</td>
<td>f</td>
<td>C</td>
<td>m</td>
<td>Silty loam, with some sand</td>
</tr>
<tr>
<td>18-20</td>
<td>10YR 5/3</td>
<td>95</td>
<td>10YR 6/2</td>
<td>f</td>
<td>C</td>
<td>m</td>
<td>Dry clay loam with sand inclusions</td>
</tr>
</tbody>
</table>

1. Frequency: F=Few, MA=Moderately Abundant, C=Common
2. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains
3. Location: PL=Pore Line, M=Matrix

### Hydric Soil Indicators
- Histosol (A1)
- Histic Epipedon (A2)
- Black Hist (A3)
- Hydrogen Sulfide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Glazed Matrix (S4)
- Sandy Redox (S6)
- Stripped Matrix (S8)
- Dark Surface (S7)

### Problematic Hydric Soil Indicators
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Glazed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

### Restrictive Layer (if observed)
- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Pleistocene Floodplain Soils (F19)
- Moos Spodic (T8)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)

### Wetland Determination
- Hydrophytic Vegetation Present? Yes
- Hydric Soil Present? Yes
- Wetland Hydrology Present? Yes
- Is this Sampling Point Within a Wetland? Yes
- Is the wetland mapped in the NWI? Yes
- Is the Wetland a Mapped State Wetland? Yes

- Hydrologic Connectivity to Off-site Wetlands? Yes
- Does Any Part of this Delineated Wetland/Swamp Extend Past the Flagged Boundary? Yes
- Is this Wetland Potentially Isolated? Yes

If yes, indicate classification
If yes, indicate wetland ID
DATA FORM
ROUTINE WETLAND DETERMINATION
Northcentral and Northeast Regional Supplement:

Project Number: 60345076
Applicant: USDA

Data Point ID (i.e. 2W @ Wet. G): UPL (04)
Nearest Flag to Data Point:

Investigator(s): J. Lyons R. Runge
Landform: Hillside/Seep Toe of Slope Depressional Riparian
Is the area a potential problem area? Yes
Is the site significantly disturbed? Yes
Landscape Position: Flat Undulating Sloping Convex Concave
Approximate Slope (%): 25

Are climatic/hydrologic conditions on the site typical for this time of year? Yes
Do Normal Circumstances exist on site? Yes

Hydrology

Primary Indicators (min. - 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Gag 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 (min. - 2 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 (D-1)
- Geomorphic Position (D2)
- Shallow Aquifer (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations
Inundation Present? Yes No
Saturated Conditions? Yes No
Depth of Water (inches): Depth to Sat. Soil (inches): Depth to Water (inches):
N/A

Stream Characteristics
Stream type: Perennial Intermittent
Morphology: Bank Width Gentle
Stream Gradient: Bed Rock
Substrate: Sand
Water Depth: Cobble
Gravel
Adjacent Community Type:

Instream Conditions:
- Obscured Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Riffles & Pools
- Vegetated Channel
- Eroded/Undercut Bank
- Other

Remarks
Upland area adjacent to Upland of W1 (left).
Canada goldenrod.

Area has dom. of gray dogwood (herb.) & shrub.
### Vegetation

**Tree Stratum** (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Number</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
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<td>3.</td>
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<tr>
<td>4.</td>
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<td></td>
</tr>
</tbody>
</table>

**Dominance Test worksheet:**

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

Total Number of Dominant Species Across All Strata: \( (A) \)

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

**Prevalence Index worksheet:**

\[ \text{Prevalence Index} = \frac{B}{A} \]

\[ \text{Total % Cover of:} \]

- OBL species \( x = 1 \)
- FACW species \( x = 2 \)
- FAC species \( x = 3 \)
- FACU species \( x = 4 \)
- UPL species \( x = 5 \)

**Herb Stratum** (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>Number</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Solidago canadensis</td>
<td>30</td>
<td>Y</td>
<td>FACU</td>
</tr>
<tr>
<td>2.</td>
<td>Solidago altissima</td>
<td>10</td>
<td>Y</td>
<td>FACU</td>
</tr>
<tr>
<td>3.</td>
<td>Solidago odora</td>
<td>5</td>
<td>N</td>
<td>NUL</td>
</tr>
<tr>
<td>4.</td>
<td>Phlox maculata</td>
<td>5</td>
<td>N</td>
<td>FACU</td>
</tr>
<tr>
<td>5.</td>
<td>Daucus carota</td>
<td>3</td>
<td>N</td>
<td>UPL</td>
</tr>
<tr>
<td>6.</td>
<td>Phlox procumbens</td>
<td>5</td>
<td>N</td>
<td>FACU</td>
</tr>
<tr>
<td>7.</td>
<td>Cornus racemosa</td>
<td>5</td>
<td>N</td>
<td>UPL</td>
</tr>
<tr>
<td>8.</td>
<td>Asclepias syriaca</td>
<td>5</td>
<td>N</td>
<td>UPL</td>
</tr>
</tbody>
</table>

\[ \text{Total Cover} = 15 \]

**Hydrophytic Vegetation indicators:**

- Rapid Test for Hydrophytic Vegetation
- Dominance Test > 50%
- Prevalence Index is < 0%
- Morphological Adaptations* (provide supporting data in remarks)
- Problematic Hydrophytic Vegetation* (explain in remarks)

**Definitions of Vegetation Strata:**

- **Tree** - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
- **Sapling/Herb** - Woody plants less than 3 in. DBH and greater than 32 ft (1 m) tall.
- **Hemix** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 32 ft tall.
- **Woody vines** - All woody vines greater than 32 ft in height.

**Remarks:**

- Lots of veg. detritus on ground.
- Upland from wetland basin.
Hydric Soil Indicators

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>Matrix</th>
<th>Redox Features</th>
<th>Problematic Hydric Soil Indicators*</th>
<th>Restrictive Layer (If observed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>1072°3'2&quot;</td>
<td>100%</td>
<td></td>
<td>2 cm Muck (A10)</td>
<td>Type: ___________________________</td>
</tr>
<tr>
<td>1-20</td>
<td>1072°3'3&quot;</td>
<td>100%</td>
<td></td>
<td></td>
<td>Depth (inches): ________________</td>
</tr>
</tbody>
</table>

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

Remarks

Historic farmland - mixed horizons - homogenized.

Wetland Determination


Is this Sampling Point Within a Wetland? Yes No [Yes]

Is the wetland mapped in the NWI? Yes No [No] If yes, indicate classification ________

Is the wetland a mapped state wetland? Yes No [Yes] If yes, indicate wetland ID ________

Hydrologic Connectivity to Off-site Wetlands? Yes No N/A

Does Any Part of this Delineated Wetland/Stream Extend Past the Flaged Boundary? Yes No N/A

Is this Wetland Potentially Isolated? Yes No N/A

US Army Corps of Engineers

Northcentral and Northeast Region - Interim Version
DATA FORM
ROUTINE WETLAND DETERMINATION
Northcentral and Northeast Region Supplement

Project Number: 60345076
Applicant: USDA
Data Point ID (i.e. 2W@Wet. G): W2 (EXT)

Investigator(s): J. Lyons R. Pung
Landform: Hillside/Slope Toe of Slope Depressional Riparian
Landscape Position: Flat Undulating Sloping Convex Concave

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No
Do Normal Circumstances exist on site? Yes No

Hydrology

Primary Indicators (min. - 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Stains on Bank (B1)
- Sediment Deposits (B2)
- Drainage Pattern (B3)
- Algal Mat or Clot (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)
- Presence of Reduced Iron (C4)
- Recent Iron Reduction in Tilled Soils (C6)
- Thirn Muck Surface (C7)
- Other (Explain In Remarks)

Secondary Indicators (min. - 2 required)
- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Saison Water Table (C2)
- crayfish Burrows (C9)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquitard (C3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations
Inundation Present? Yes No
Saturated Conditions? Yes No Depth of Water (inches):
Depth to Sat. Soil (inches): 18
Depth to Water (inches):

Stream Characteristics
Stream type: Perennial Intermittent
Morphology:
Bank Width: Gentle
Stream Gradient:
Bed Rock
Substrate: Sand
Flow:
No Flow
Gentle
Moderate
Heavy

Water Depth: Sleep
Water Depth: Cobble
Gravel

Adjacent Community Type: N/A

Instream Conditions:
- Obscured Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Rifles & Pools
- Vegetated Channel
- Eroded/Underscut Bank
- Other

Remarks
Wetland W2 was extended from the land parcel to the west. It is a mix of PEM (mostly) and SS with a line of small grove of willows.
**Vegetation**

**Tree Stratum** (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Number of Dominant Species</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>That Are OBL, FACW, or FAC:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(A)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total Number of Dominant</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Species Across All Strata:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(B)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Percent of Dominant Species</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>That Are OBL, FACW, or FAC:</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>(A/B)</td>
</tr>
</tbody>
</table>

Prevalence Index worksheet:

<table>
<thead>
<tr>
<th>Total % Cover of:</th>
<th>Multiply by:</th>
</tr>
</thead>
<tbody>
<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:</td>
<td>(A)</td>
</tr>
</tbody>
</table>

Prevalence Index = B/A =

**Sapling/Shrub Stratum** (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>sapling</th>
<th>% Cover</th>
<th>Indicator Status</th>
<th>Hydrophytic Vegetation Indicators:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salix sp.</td>
<td>3</td>
<td>Y</td>
<td><em>Rapid Test for Hydrophytic Vegetation</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>Dominance Test &gt; 50%</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><em>Prevalence Index is ≤ 3.0</em></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Morphological Adaptations (provide supporting data in remarks)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Problematic Hydrophytic Vegetation (explain in remarks)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.</td>
</tr>
</tbody>
</table>

**Herb Stratum** (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Indicator Status</th>
<th>Definitions of Vegetation Strata:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oenothera sensibilis</td>
<td>15</td>
<td>Y</td>
<td>Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</td>
</tr>
<tr>
<td>Solidago odorum</td>
<td>5</td>
<td>N</td>
<td>Sapling/shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</td>
</tr>
<tr>
<td>Solidago gigantea</td>
<td>10</td>
<td>Y</td>
<td>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</td>
</tr>
<tr>
<td>Scirpus americanus</td>
<td>2</td>
<td>N</td>
<td>Woody vines - All woody vines greater than 3.28 ft in height.</td>
</tr>
<tr>
<td>Phalaris arundinacea</td>
<td>50</td>
<td>Y</td>
<td></td>
</tr>
</tbody>
</table>

Remarks:

Woody field cover: Grass
- Wetland area is in wetland type low depression area
- Veg. is thick/lush

Woody Vine Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Woody Vine Stratum (Plot size: 30-foot radius)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

Total Cover
Project Number: 60345076
Applicant: USDVA
Soil Map Unit: N/A

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Loc</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-1</td>
<td>10YR 2/2</td>
<td>100</td>
<td>2.5YR 4/6</td>
<td>F</td>
<td>c</td>
<td>m</td>
<td>Silty loam w/ roots</td>
</tr>
<tr>
<td>1-16</td>
<td>10YR 2/2</td>
<td>80</td>
<td>10YR 5/4</td>
<td>F</td>
<td>c</td>
<td>m</td>
<td>Sandy loam</td>
</tr>
<tr>
<td>16-20</td>
<td>10YR 9/4</td>
<td>95</td>
<td>10YR 2/4</td>
<td>F</td>
<td>c</td>
<td>m</td>
<td>Clay (dry)</td>
</tr>
</tbody>
</table>

1. Frequency: F=Few, MA=Moderately Abundant, C=Common
2. Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains
3. Location: P=Porosity, L=Matrix

Hydric Soil Indicators
- Histosol (A1)
- Histic Epipedon (A2)
- Black Hist (A3)
- Hydrogen Sulphide (A4)
- Stratified Layers (A5)
- Depleted Below Dark Surface (A11)
- Thick Dark Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Greyed Matrix (S4)
- Sandy Redox (S5)
- Stripped Matrix (S6)
- Dark Surface (S7)

Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Greyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Redox Depressions (F8)
- Redox Peat (F3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils F19
- Mastic Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)

Problematic Hydric Soil Indicators
- 2 cm Muck (A10)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils F19
- Mastic Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)

Restrictive Layer (if observed)

Type: ____________________________ Depth (inches): ____________

Remarks
Soil is hydric but has main tilled a homogenous structure more than likely from past plowing (till activites). Combed clay layer in lower horizon.

Wetland Determination
Hydrophytic Vegetation Present? Yes ☑ No ☐
Hydric Soil Present? Yes ☑ No ☐
Wetland Hydrology Present? Yes ☑ No ☐
Is this Sampling Point Within a Wetland? Yes ☑ No ☐
Is the wetland mapped in the NWI? Yes ☑ No ☐
If yes, indicate classification _____________________
Is the wetland a mapped state wetland? Yes ☑ No ☐
If yes, indicate wetland ID _____________________
DATA FORM
ROUTINE WETLAND DETERMINATION

Project Number: 60345076
Applicant: USDA

Town: Pembroke
County: Genesee
State: New York
Community: N/A

Data Point ID (i.e. 2W@Wet. G.): UP 2 (ext)

Investigator(s): J. Lyons R. Runge

Landform: Hillside/Seep Tote of Slope Depressional Riparian
Landscape Position: Flat Undulating Sloping Convex Concave

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No

Hydrology

Primary Indicators (min. - 1 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)
- Salt Deposits (B15)
- Hydrogen Sulphide Color (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 (min. - 2 required)
- Surfase Soil Cracks (E6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Grayish Burrows (C8)
- Saturated Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquifer (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations

Inundation Present? Yes No
Saturated Conditions? Yes No

Depth of Water (inches):
Depth to Sat. Soil (inches):
Depth to Water (inches):

Stream Characteristics

Stream type: Perennial
Morphology: Bank Width Gentle
Stream Gradient: Bed Rock
Substrate: Sand
Flow: No Flow

Intermittent
Stream Width Moderate
Water Depth Steep

Adjacent Community Type: N/A

Instream Conditions:
- Obscured Banks
- Well Defined Banks
- Eroded/Undercut Bank
    - Deep Pools
    - Riffles & Pools
    - Overhanging Vegetation
    - Vegetated Channel
    - Other

Remarks:
uplands are adjacent to wet areas upland is up slope in elevation from wetland - (historize as field?)
difference in dom. veg. & lighten soils colors.
### Vegetation

**Tree Stratum (Plot size: 30-foot radius)**

<table>
<thead>
<tr>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dominance Test worksheet:**

- Number of Dominant Species: 
  - That Are OBL, FACW, or FAC: (A)
  - Total Number of Dominant Species Across All Strata: (B)
  - Percent of Dominant Species That Are OBL, FACW, or FAC: (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: 

Prevalence Index = $\text{B} \times (\text{Total Cover})$

### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Herb Stratum (Plot size: 5-foot radius)**

<table>
<thead>
<tr>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solidago canadensis</td>
<td>20</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>S. odon</td>
<td>3</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>S. glitissima</td>
<td>5</td>
<td>N</td>
<td>N/A</td>
</tr>
<tr>
<td>Phlox rosea</td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>Daucus carota</td>
<td>7</td>
<td>Y</td>
<td>UPL</td>
</tr>
<tr>
<td>Asclepias syriaca</td>
<td>8</td>
<td>Y</td>
<td>UPL</td>
</tr>
<tr>
<td>Phleum praetense</td>
<td>10</td>
<td>Y</td>
<td>FACU</td>
</tr>
<tr>
<td>Cornus racemosa</td>
<td>10</td>
<td>Y</td>
<td>FAC</td>
</tr>
</tbody>
</table>

**Hydrophytic Vegetation Indicators:**

- Rapid Test for Hydrophytic Vegetation
- Dominance Test >50%
- Prevalence Index is ≤3.0
- Morphological Adaptations' (provide supporting data in remarks)
- Problematic Hydrophytic Vegetation' (explain in remarks)
- Indicators of hypoxic soil and wetland hydrology must be present, unless disturbed or problematic.

**Definitions of Vegetation Strata:**

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

**Remarks**

Thick variety of veg low brush on this area all amigual
### Soil Profile Description

(Describe the depth needed to document the indicator or confirm the absence of indicators.)(1)

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Loc^1</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-20</td>
<td>107 R 3/3</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sandy loam with small few grass</td>
</tr>
</tbody>
</table>

1: Frequency: F=Frequent, M=Moderately Abundant, C=Common
2: Type: C=Concentration, D=Deposition, RM=Reduced Matrix, CS=Covered or Coated Sand Grains
3: Location: FL=Pore Lining, M=Matrix

### Hydric Soil Indicators

- Histosol (A1)
- Histic Epipedon (A2)
- Black Hist (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)

### Problematic Hydric Soil Indicators

- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils F19)
- Mica Spodio (F16)
- Red Parent Material (F2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

### Restrictive Layer (if observed)

- Type: __________
- Depth (inches): __________

### Remarks

Historic as field - lighten colored soils. Lots of roots

### Wetland Determination

- Hydrophytic Vegetation Present? Yes No
- Hydric Soil Present? Yes No
- Wetland Hydrology Present? Yes No
- Is this Sampling Point Within a Wetland? Yes No
- Is the wetland mapped in the NWI? Yes No
- Is the wetland a mapped state wetland? Yes No

- Hydrologic Connectivity to Off-site Wetlands? Yes No N/A
- Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes No N/A
- Is this Wetland Potentially Isolated? Yes No N/A

If yes, indicate classification __________
If yes, indicate wetland ID __________
AECOM
257 West Genesee Street
Suite 400
Buffalo, New York 14202

Project Number: 60345076
Applicant: US DVA

Data Point ID (i.e. 2W 8 Wet. G): W3 (art)

Nearest Flag to Data Point:

Investigator(s): J. Lyons R. Runge

Landform: Hillside/Seep Toe of Slope Depressional Riparian

Landscape Position: Flat Undulating Sloping Convex Concave

Is the area a potential problem area? Yes No
Is the site significantly disturbed? Yes No
Approximate Slope (%): 2-4

Do Normal Circumstances conditions exist on site? Yes No

Hydrology

Primary Indicators (min. - 1 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 (min. - 2 required)
- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Grayfish Burrows (C8)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquifer (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations

Inundation Present? Yes No Depth of Water (inches):
Saturated Conditions? Yes No Depth to Sat. Soil (inches): 19

Depth to Water (inches): 19 +

Stream Characteristics

Stream type: Perennial Intermittent
Morphology: Bank Width Gentle
Stream Gradient: Bed Rock
Substrate: Sand
Flow: No Flow
Intermittent Stream Width Moderate
Water Depth Sleep

Adjacent Community Type:

N/A

Instream Conditions:
- Obscured Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Riffles & Pools
- Vegetated Channel
- Eroded/Undercut Bank
- Other

Remarks:
Emergent wetland w/ small cattail component. Wetland basin is apparent & depression from surrounding areas.

US Army Corps of Engineers
Northcentral and Northeast Region - Interim Version
<table>
<thead>
<tr>
<th>Vegetation</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tree Stratum (Plot size: 30-foot radius)</td>
<td></td>
<td></td>
<td></td>
<td>Number of Dominant Species That Are OBL, FACW, or FAC: (A)</td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td>Total Number of Dominant Species Across All Strata: (B)</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
<td>Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)</td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>4.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slovakia</td>
<td></td>
<td></td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>Sapling/Shrub Stratum (Plot size: 15-foot radius)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
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<td>3.</td>
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<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>= Total Cover</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Herb Stratum (Plot size: 5-foot radius)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>30</td>
<td></td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>15</td>
<td></td>
<td>OBL</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>10</td>
<td></td>
<td>OBL</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>10</td>
<td></td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>5</td>
<td></td>
<td>FACW</td>
<td></td>
</tr>
<tr>
<td>= Total Cover</td>
<td>70</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrophytic Vegetation Indicators:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Rapid Test for Hydrophytic Vegetation</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Dominance Test &gt;50%</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Prevalence Index ≥ 0.5</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Morphological Adaptations (provide supporting data in remarks)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Problematic Hydrophytic Vegetation (explain in remarks)</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Indicators of hydric soil and wetland hydrology must be present; unless disturbed or probamatric</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Definitions of Vegetation Strata:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Sapling/Shrub - Woody plants less than 3 in. DBH and greater than 3.28 ft (1 m) tall.</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Woody vines - All woody vines greater than 3.28 ft in height.</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remarks: Different vegetation components to this wetland: (i.e. monoculture of CI)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SOLIS

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

<table>
<thead>
<tr>
<th>Depth (Inches)</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency ±</th>
<th>Type ±</th>
<th>Loc ±</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2</td>
<td>10YR 2/1</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Muck, Hydrol. Form.</td>
</tr>
<tr>
<td>2-18</td>
<td>10YR 2/2</td>
<td>90</td>
<td>10YR 2/6</td>
<td>±</td>
<td></td>
<td></td>
<td>Silty loam, weak root zones</td>
</tr>
<tr>
<td>18-20</td>
<td>7.5YR 2/1</td>
<td>90</td>
<td>7.5YR 2/1</td>
<td>±</td>
<td></td>
<td></td>
<td>Clays, clayish clay, with colored sand inclusions</td>
</tr>
</tbody>
</table>

Frequency: F= Few, M= Moderately Abundant, C= Common
Type: C= Concentration, D= Depletion, RM= Reduced Matrix, CS= Covered or Coated Sand Grains
Loc: 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)
- Hard Hard Surface (A12)
- Sandy Mucky Mineral (S1)
- Sandy Gleyed Matrix (S4)
- Sandy Redox (S6)
- Stripped Matrix (S6)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Redox Depressions (F6)

Problematic Hydric Soil Indicators
- 2 cm Muck (A10)
- Coastal Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Massee (F12)
- Piedmont Floodplain Soils F19
- Muscic Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

Restrictive Layer (If observed)
Type: __________ Depth (Inches): __________

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

Remarks
Clayish material in bottom horizon.

WETLAND DETERMINATION

- Hydric Vegetation Present? Yes ☑ No
- Hydric Soil Present? Yes ☑ No
- Wetland Hydrology Present? Yes ☑ No
- Is this Sampling Point Within a Wetland? Yes ☑ No
- Hydrologic Connectivity to Off-site Wetlands? Yes ☑ No N/A
- Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes ☑ No N/A
- Is this Wetland Potentially Isolated? Yes ☑ No N/A
- Is the wetland mapped in the NWI? Yes ☑ No
- Is the wetland a mapped state wetland? Yes ☑ No
- If yes, indicate classification: __________
- If yes, indicate wetland ID: AK-15

US Army Corps of Engineers
Northcentral and Northeast Region - Interim Version
DATA FORM
ROUTINE WETLAND DETERMINATION
Northcentral and Northeast Regional Supplement

Project Number: 60345076
Applicant: USDVA

Investigator(s): J. Lyons R. Ruq

Landform: Hillslope Toe of Slope Depressional Riparian
Landscape Position: Flat Undulating Sloping Convex Concave

Are climatic/hydrologic conditions on the site typical for this time of year? Yes No

Do Normal Circumstances exist on site? Yes No

Hydrology

Primary Indicators (min. - 1 required; check all that apply):
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Wells (B1)
- Sediment Deposits (B2)
- Drift Deposits (B3)
- Algal Mats or Crust (B4)
- Iron Deposits (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)
- Water-Stained Surface (C9)
- Aquatic Fauna (B13)
- Met Deposits (B13)
- 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 (min. - 2 required):
- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trim Lines (B16)
- Dry-Season Water Table (C2)
- Clayfish Burrows (C9)
- Saturation Visible on Aerial Imagery (C9)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquifer (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

Field Observations
Inundation Present? Yes No Depth of Water (inches):
Saturated Conditions? Yes No Depth to Sat. Soil (inches):

Stream Characteristics
Stream type: Perennial
Morphology: Bank Width Gentle
Stream Gradient: Moderate
Substrate: Bed Rock Boulder Cobble Gravel
Flow: No Flow Gentle Moderate Heavy

Intermittent
Stream Width
Water Depth

Adjacent Community Type:

Instream Conditions:
- Obscured Banks
- Well Defined Banks
- Erodable/Undercut Bank
- Deep Pools
- Riffles & Pools
- Overhanging Vegetation
- Vegetated Channel
- Other

Remarks:
Upland area ad to W3 (ext) - north.
Area is emergent to slinky & uploge from wetland area.
### Vegetation

#### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>5</td>
<td>N</td>
<td>FAC</td>
</tr>
<tr>
<td>2.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th></th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>50</td>
<td>Y</td>
<td>FAC</td>
</tr>
<tr>
<td>2.</td>
<td>5</td>
<td>N</td>
<td>FAC</td>
</tr>
<tr>
<td>3.</td>
<td>10</td>
<td>Y</td>
<td>ULC</td>
</tr>
<tr>
<td>4.</td>
<td>5</td>
<td>N</td>
<td>FAC</td>
</tr>
<tr>
<td>5.</td>
<td>15</td>
<td>Y</td>
<td>FAC</td>
</tr>
</tbody>
</table>

Hydrophytic Vegetation Indicators:
- Rapid Test for Hydrophytic Vegetation
- Dominance Test > 50%
- Prevalence Index = <3.0%
- Morphological Adaptations (provide supporting data in remarks)
- Problematic Hydrophytic Vegetation (explain in remarks)

Definitions of Vegetation Strata:
- Tree - Woody plants 5 in. (12.7 cm) or more in diameter at breast height (DBH), regardless of height
- Sapling/shrub - Woody plants less than 5 in. DBH and greater than 3.28 ft (1 m) tall.
- Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
- Woody vines - All woody vines greater than 3.28 ft in height.

### Remarks

Upload veg. w/ some RC grass. all upslope.
Project Number: 60345076  
Applicant: USDA  

Soil Map Unit: P3.13  

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix</th>
<th>Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Loc</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-18</td>
<td>100%</td>
<td>100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Sandy loam w/ some gravel.</td>
</tr>
</tbody>
</table>

*Frequency: F=Few, MA=Moderately Abundant, C=Common  
*Type: C=Concentration, D=Deposition, RM=Reduced Matrix, CS=Covered or Coated Sand Grains  
*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 (S6)  
- Thin Dark Surface (S9)  
- Loamy Mucky Mineral (F1)  
- Loamy Gleyed Matrix (F2)  
- Depleted Matrix (F3)  
- Redox Dark Surface (F6)  
- Depleted Dark Surface (F7)  
- Redox Depressions (F8)  

Problematic Hydric Soil Indicators  
- 2 cm Muck (A10)  
- Coast Prairie Redox (A16)  
- 5 cm Mucky Peat or Peat (S3)  
- Dark Surface (S7)  
- Polyvalue Below Surface (S8)  
- Thin Dark Surface (S9)  
- Iron-Manganese Masses (F12)  
- Piedmont Floodplain Soils F19  
- Mesic Soils (TM)  
- Red Parent Material (T2)  
- Very Shallow Dark Surface (F12)  
- Other (Explain in remarks)  

Restrictive Layer (if observed)  
Type: Rock  
Depth (inches): 18

Hydrologic Connectivity to Off-site Wetlands? Yes No N/A  
Does Any Part of this Delineated Wetland/Stream Exceed the Flagged Boundary? Yes No N/A  
Is this Wetland Potentially Isolated? Yes No N/A  

If yes, indicate classification  
If yes, indicate wetland ID  

Remarks  
Homogenous soil profile with little activity. (old as soils.)

Wetland Determination  
Hydrophytic Vegetation Present? Yes No  
Hydric Soil Present? Yes No  
Wetland Hydrology Present? Yes No  
Is this Sampling Point Within a Wetland? Yes No  
Is the wetland mapped in the NWI? Yes No  
Is the wetland a mapped state wetland? Yes No  

US Army Corps of Engineers  
Northcentral and Northeast Region - Interim Version
# DATA FORM

**Routine Wetland Determination**

**Northeastern and Northeast Region Supplement**

**Project Number:** 60346076

**Applicant:** USDA

**Data Point ID (i.e. 2W0@Wet. G.):** W6

**Town:** Rochester

**County:** Genesee

**State:** New York

**Community:** PEM/PSS/PRO

**Sampling Date:** 28 Aug 2015

**Nearest Flag to Data Point:**

**Investigator(s):** J. Lyons R. Runge

**Landform:** Hillside/Seep Toe of Slope Depressional Riparian

**Landscape Position:** Flat Undulating Sloping Convex Concave

**Is the area a potential problem area?** Yes ☐ No ☑

**Is the site significantly disturbed?** Yes ☐ No ☑

**Approximate Slope (%):** 1-3

**Are climatic/hydrologic conditions on the site typical for this time of year?** Yes ☐ No ☑

**Do Normal Circumstances exist on site?** Yes ☐ No ☑

## Hydrology

**Primary Indicators (min. - 1 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)
- Mud 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 (min. - 2 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 (D-1)
- Geomorphic Position (D2)
- Shallow Aquifer (D3)
- Microtopographic Relief (D4)
- FAC-Neutral Test (D5)

## Field Observations

**Inundation Present?** Yes ☑ No ☐

**Saturated Conditions?** Yes ☑ No ☐

**Depth of Water (inches):**

**Depth to Saturated Soil (inches):** 19

## Stream Characteristics

**Stream type:** Perennial

**Morphology:** Bank Width

**Gradient:** Gentle

**Substrate:** Bed Rock

**Flow:** No Flow

**Height:**

**Width:**

**Intermittent:**

**Stream Width:** Moderate

**Water Depth:** Shallow

**Flow:** Gentle

**Height:**

**Width:**

**Adjacent Community Type:** N/A

**Instream Conditions:**

- Obscured Banks
- Deep Pools
- Overhanging Vegetation

- Well Defined Banks
- Riffles & Pools
- Vegetated Channel

- Eroded/Undercut Bank

- Other

## Remarks

WE SPONS A PEM, PSS, & PFO area. - Forested component is hummocky

Wetlands - R.O. doaded in PSS - Pem mostly - Pem - PSS - Pem. Access road
cuts through middle.
### Vegetation

#### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Number</th>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Corylus avellana</em></td>
<td>10</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td><em>Alnus incana</em></td>
<td>10</td>
<td>Y</td>
<td>FACW</td>
</tr>
</tbody>
</table>

#### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Oenothera sensibilis</em></td>
<td>20</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td><em>Cornus sericea</em></td>
<td>5</td>
<td>N</td>
<td>FACW</td>
</tr>
<tr>
<td><em>Solidago gigantea</em></td>
<td>10</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td><em>S. ocana</em></td>
<td>3</td>
<td>N</td>
<td>FUL</td>
</tr>
<tr>
<td><em>S. canadensis</em></td>
<td>3</td>
<td>N</td>
<td>FACW</td>
</tr>
<tr>
<td><em>Rubus sp.</em></td>
<td>2</td>
<td>N</td>
<td>FACW</td>
</tr>
<tr>
<td><em>Phalaris arundinacea</em></td>
<td>10</td>
<td>Y</td>
<td>FACW</td>
</tr>
</tbody>
</table>

#### Woody Vine Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>Species</th>
<th>% Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Vitis</em></td>
<td>3</td>
<td>N</td>
<td>FACW</td>
</tr>
</tbody>
</table>

**Remarks:**

A few plants of *Rumex* were observed. The area is a component of the *BPO*.
**Soils**

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Color (moist)</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Location</th>
<th>Texture, Structure, Other</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2</td>
<td>10YR 8/1</td>
<td>10YR 8/1</td>
<td>100</td>
<td></td>
<td></td>
<td>dry muck, silty</td>
</tr>
<tr>
<td>2-14</td>
<td>10YR 8/2</td>
<td>10R 7/4</td>
<td>95</td>
<td>MA</td>
<td>0</td>
<td>sandy loam, 10cm w/ root zone</td>
</tr>
<tr>
<td>14-20</td>
<td>10YR 8/1</td>
<td>10YR 4/6</td>
<td>90</td>
<td>F</td>
<td>c</td>
<td>depleted sandy 10cm</td>
</tr>
</tbody>
</table>

**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 Glyeod Matrix (S4)
- Sandy Redox (S6)
- Stripped Matrix (S6)
- Dark Surface (S7)

**Problematic Hydric Soil Indicators**

- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Loamy Mucky Mineral (F1)
- Loamy Glyeod Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)
- 2 cm Muck (A10)
- Coastal Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyvalue Below Surface (S8)
- Thin Dark Surface (S9)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils (F19)
- Mucic Spodic (TA6)
- Red Parent Material (TF2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in remarks)

**Restrictive Layer (If observed)**

- Type: 
- Depth (inches): 

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

**Remarks**

"a variety of soil areas - silty topsoil with clay to clayish subsoil."

**Wetland Determination**

- Hydrophytic Vegetation Present? Yes No
- Hydric Soil Present? Yes No
- Wetland Hydrology Present? Yes No
- Is this Sampling Point Within a Wetland? Yes No
- Is the wetland mapped in the NWI? Yes No
- Is the wetland a mapped state wetland? Yes No
- Hydrologic Connectivity to Off-site Wetlands? Yes No N/A
- Does Any Part of this Delineated Wetland/Stream Extend Past the Flagged Boundary? Yes No N/A
- Is this Wetland Potentially Isolated? Yes No N/A
- If yes, indicate classification: [PF01] 5/16
- If yes, indicate wetland ID: 

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US Army Corps of Engineers
Northcentral and Northeast Region - Interim Version
DATA FORM
ROUTINE WETLAND DETERMINATION
Northeastern and Northwest Regional Supplement

Project Number: 60345076
Applicant: USDA

Investigator(s): J. Lyons R. Runo

Landform: Hillside/Seep: Toe of Slope: Depressional: Riparian:

Landscape Position: Flat: Undulating: Sloping: Convex: Concave:

Is the area a potential problem area? Yes No
Is the site significantly disturbed? Yes No
Approximate Slope (%): 2-4

Hydrology

Primary Indicators (min. - 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposits (B2)
- Debris 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)
- Mott 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 (min. - 2 required)
- Surface Soil Cracks (B6)
- Drainage Patterns (B10)
- Moss Trimmings (B16)
- Dry-Season Water Table (C2)
- Grayfish Burrows (C9)
- Saturation Visible on Aerial Imagery (C3)
- Stunted or Stressed Plants (D-1)
- Geomorphic Position (D2)
- Shallow Aquitard (D3)
- Microtopographic Relief (D4)
- FAC-Ground Test (F5)

Field Observations
Inundation Present? Yes No
Saturated Conditions? Yes No
Depth of Water (inches):
Depth to Sat. Soil (inches):
Depth to Water (inches):

Stream Characteristics

Stream type: Perennial
Morphology: Bank Width
Stream Gradient: Gentle
Substrate: Bed Rock
Flow: No Flow

Stream type: Intermittent
Morphology: Stream Width
Stream Gradient: Moderate
Substrate: Boulder
Flow: Gentle

Water Depth: Steep
Substrate: Cobble
Flow: Moderate

Adjacent Community Type: N/A

Instream Conditions:
- Obscured Banks
- Deep Pools
- Overhanging Vegetation
- Well Defined Banks
- Riffles & Pools
- Vegetated Channel
- Eroded/Undercut Bank
- Other

Remarks:
Upland area adjacent to W6 - slightly elevated from wetland basin.

Emergent shrubs present.
### Vegetation

#### Tree Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>Number of Dominant Species That Are OBL, FACW, or FAC: [A]</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>Total Number of Dominant Species Across All Strata: [B]</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Sapling/Shrub Stratum (Plot size: 15-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
<th>Prevalence Index worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>Total % Cover of: OBL species x 1 =</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>FACW species x 2 =</td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>FAC species x 3 =</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
<td>FACU species x 4 =</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td>UPL species x 5 =</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Column Totals: (A) (B)</td>
</tr>
</tbody>
</table>

**Total Cover**

#### Herb Stratum (Plot size: 5-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Species</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Dominance Test worksheet:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Solidago canadensis</td>
<td>25</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>2</td>
<td>Cicuta vulgata</td>
<td>5</td>
<td>N</td>
<td>N/L</td>
</tr>
<tr>
<td>3</td>
<td>Plathymenia aurantiaca</td>
<td>5</td>
<td>N</td>
<td>FACW</td>
</tr>
<tr>
<td>4</td>
<td>Daucus carota</td>
<td>10</td>
<td>Y</td>
<td>UPL</td>
</tr>
<tr>
<td>5</td>
<td>Phleum pratense</td>
<td>15</td>
<td>Y</td>
<td>FACW</td>
</tr>
<tr>
<td>6</td>
<td>Trifolium spp</td>
<td>5</td>
<td>N</td>
<td>FACW</td>
</tr>
<tr>
<td>7</td>
<td>Taraxacum officinale</td>
<td>5</td>
<td>N</td>
<td>FACW</td>
</tr>
</tbody>
</table>

**Total Cover**

#### Woody Vine Stratum (Plot size: 30-foot radius)

<table>
<thead>
<tr>
<th>#</th>
<th>Absolute % Cover</th>
<th>Dominant Species?</th>
<th>Indicator Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Cover**

### Hydrophytic Vegetation Indicators:
- Rapid Test for Hydrophytic Vegetation
- Dominance Test >50%
- Presence Index is ≥ 3.0'°
- Morphological Adaptors (provide supporting data on remarks)
- Problematic Hydrophytic Vegetation (explain in remarks)
- 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 0.28 ft (1 m) tall.
- **Herb** - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 0.28 ft tall.
- **Woody vines** - All woody vines greater than 0.28 ft in height.

### Remarks
- Forested section has a quaking aspen canopy.
- Evergreen pines are abundant in the area nearby.
- Area has been mowed recently.
Project Number: 60345026
Applicant: USDVA
Sampling Date: 28 Aug 2015
Data Point ID: 184

Soil Map Unit: CaA

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

<table>
<thead>
<tr>
<th>Depth (inches)</th>
<th>Matrix Color (moist)</th>
<th>%</th>
<th>Color (moist)</th>
<th>Frequency</th>
<th>Type</th>
<th>Loc</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-2</td>
<td>1072 7/8</td>
<td>100</td>
<td>1072 7/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-18</td>
<td>1072 7/8</td>
<td>100</td>
<td>1072 7/8</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Frequency: F=Few, M=Moderately Abundant, C=Common
- Type: C=Concentration, D=Depletion, R=Reduced Matrix, CS=Covered or Coated Sand Grains
- Location: PL=Pore Lining, M=Matrix

### Hydric Soil Indicators
- Histosol (A1)
- Histic Epipedon (A2)
- Black Hist (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)
- Polyaque Below Surface (SB)
- Thin Dark Surface (SB)
- Lacry Mucky Mineral (F1)
- Lacry Gleyed Matrix (F2)
- Depleted Matrix (F3)
- Redox Dark Surface (F6)
- Depleted Dark Surface (F7)
- Redox Depressions (F8)

### Problematic Hydric Soil Indicators
- 2 cm Muck (A10)
- Coast Prairie Redox (A16)
- 5 cm Mucky Peat or Peat (S3)
- Dark Surface (S7)
- Polyaque Below Surface (SB)
- Thin Dark Surface (SB)
- Iron-Manganese Masses (F12)
- Piedmont Floodplain Soils F19
- Mesic Spodic (TA6)
- Red Parent Material (TH2)
- Very Shallow Dark Surface (TF12)
- Other (Explain in Remarks)

### Restrictive Layer (if observed)
- Type: Rock/gravel
- Depth (inches): 18

### Remarks
Soil colors are lighter with some small gravel. May indicate past plowing/filling activities (horizon mixing).

### Wetland Determination
- Hydrophytic Vegetation Present? Yes No
- Hydric Soil Present? Yes No
- Wetland Hydrology Present? Yes No
- Is the Sampling Point Within a Wetland? Yes No
- Hydrologic Connectivity to Off-site Wetlands? Yes No N/A
- Does Any Part of this Delineated Wetland/Stream Exceed Past the Flagged Boundary? Yes No N/A
- Is this Wetland Potentially Isolated? Yes No N/A
- Is the wetland mapped in the NWI? Yes No
- Is the wetland a mapped state wetland? Yes No

If yes, indicate classification if yes, indicate wetland ID.
DATA FORM

ROUTINE WETLAND DETERMINATION

AECOM
257 West Genesee Street
Suite 400
Buffalo, New York 14202

Applicant: US DVA

Project Number: 160345026

Nearest Flag to Data Point: 3-1

Investigator(s): J. Lyons, R. Runo

Landform: Hillside/Steep, Toe of Slope, Depressional, Riparian

Approximate Slope (%): 3-5

Landscape Position: Flat, Undulating, Sloping, Convex, Concave

Is the area a potential problem area? Yes

Is the site significantly disturbed? No

Approximate Slope (%): 3-5

Are climatic/hydrologic conditions on the site typical for this time of year? Yes

Do Normal Circumstances exist on site? Yes

Hydrology

DRAINAGE SWALE FOR 46 LANDS.

Primary Indicators (min. - 1 required; check all that apply)
- Surface Water (A1)
- High Water Table (A2)
- Saturation (A3)
- Water Marks (B1)
- Sediment Deposition (B2)
- Drift Deposits (B3)
- Algal Mats or Crust (B4)
- Iron Depositions (B5)
- Inundation Visible on Aerial Imagery (B7)
- Sparsely Vegetated Concave Surface (B8)

Secondary Indicators (min. - 2 required)
- 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)

Soils - CaA

Field Observations

Inundation Present? Yes

Saturated Conditions? Yes

Depth of Water (inches): 1-2 pools

Depth to Sat. Soil (inches): 1-2 pools

Depth to Water (inches): 0-12

Stream Characteristics

Stream type: Perennial

Stream Morphology: Bank Width: 3-12'

Stream Gradient: Steep

Substrate: Sand

Flow: No Flow

Instream Conditions:

- Obscured Banks
- Deep Pools
- Overhanging Vegetation

- Well Defined Banks
- Riffles & Pools
- Vegetated Channel

- Eroded/Undercut Bank

Remarks:

Most soils under mostly dry channel -> seasonally flows. Snow/ice melt, heavy rain events. Most likely connected to ag. field drains tiles, manmade drainage features connects to drainage swales in the west.

US Army Corps of Engineers

Northeastern and Northern Region - Information Systems

8-1-60345026