

APPENDIX F - WETLAND DELINEATION REPORT



WETLAND DELINEATION REPORT FOR THE SALES DISTRIBUTION CENTER PROJECT

TOWN OF SCHODACK, RENSSELAER COUNTY, NEW YORK

Prepared for:

BERGMANN ASSOCIATES 10-B Madison Avenue Extension Albany, NY 12203

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TABLE OF CONTENTS

		Page
1.0	INTRODUCTION	1
2.0	BACKGROUND INFORMATION REVIEW	1
3.0	METHODS	1
4.0	RESULTS 4.1 Site Description 4.2 Site Ecology 4.3 Wetlands Descriptions	3
5.0	SUMMARY	7
6.0	REFERENCES	9

APPENDIX A - Photographs **APPENDIX B** - Field Data Sheets

APPENDIX C - Jurisdictional Determination Information

LIST OF FIGURES

(all figures follow text)

Figure 1. Site Location

Figure 2. NYS Freshwater Wetlands Map

Figure 3. National Wetlands Inventory Map

Figure 4. Soil Survey Map

Figure 5. Surface Water Classification Map

Figure 6. Flood Insurance Rate Map

Figure 7. Aerial Photograph of Site

Figure 8. Drainage Basin Map

Figure 9. Stream Reach

Figure 10. Wetland Locations

Figure 11. Wetland Boundaries with Sample Plot and Photograph Locations

1.0 INTRODUCTION

Terrestrial Environmental Specialists, Inc. (TES) was contracted by Bergmann Associates to perform a wetland investigation on a site in the Town of Schodack, Rensselaer County, New York. The study area is approximately 106 acres in size and is located south of Schodack Valley Road (NYS Route 150), north of Julianne Road, east of Interstate Route 90, and west of Columbia Turnpike (NYS Routes 9 and 20) (Figure 1).

The TES wetland investigation consisted of a review of available background information and a field delineation of wetlands and other regulated waters. This report addresses the results of the background information review and the wetland delineation. A variety of figures are included with this report, along with photographs and field data sheets.

2.0 BACKGROUND INFORMATION REVIEW

Prior to the field investigation at the site, TES assembled and reviewed available background information. This information included:

- the New York State Department of Transportation (NYSDOT) Topographic Map (East Greenbush quadrangle) (Figure 1);
- the New York State Department of Environmental Conservation (NYSDEC) New York State Freshwater Wetlands Map (Figure 2);
- the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) Map (Figure 3);
- the Rensselaer County Soil Survey Map prepared by the Natural Resources Conservation Service (Figure 4);
- the New York State Surface Water Classification Map (Figure 5);
- the Town of Rensselaer Flood Insurance Rate Map prepared by the Federal Emergency Management Agency (Figure 6); and
- an aerial photograph obtained from the New York State GIS Clearinghouse (Figure 7).

All figures are provided after the text.

3.0 METHODS

The agency resource information maps, soils descriptions, and the aerial photograph discussed above were used during the field review of the site. These maps and this information assisted in the initial identification of potential wetland areas.

Flagging of the wetlands on the site and data collection along the boundaries were performed by TES on November 15 and 16, 2011. The boundaries were delineated using the federal criteria for vegetation, soils, and hydrology (U.S. Army Corps of Engineers 2009, Environmental Laboratory 1987, Reed 1988, and NRCS 2011).

Surveyor's ribbons were placed along the wetland boundaries based on observations of vegetation, soils, and hydrology conditions. These observations were made along transects located perpendicular to the wetland boundaries. Additional observations of vegetation, soils, and hydrology were made at intermediate locations between the transects for the placement of additional flagging. Each wetland flag was labeled with a letter identifier of the wetland and was numbered consecutively (for example, A-1, A-2, A-3, *etc.*). The flagged wetland boundaries were surveyed by Brewer Engineering.

To further support the wetland boundaries, data on vegetation, soils, and hydrology were collected during the field effort in plots along transects located perpendicular to the wetland boundaries on the site. TES sampled 17 plots in and around the wetlands and in other representative areas of the site. Plots were generally located on the wetland and upland sides of the flagged wetland boundaries. The plot data were recorded on data sheets similar to those used in the regional supplement (U.S. Army Corps of Engineers 2009).

Vegetation data were collected in all the plots. Ocular estimates of the percent areal cover by plant species for each vegetation layer (tree, shrub, and herbaceous layers) were recorded. The plots varied in size by vegetation layer being sampled. The sizes were: 30-foot radius for the trees, 15-foot radius for the shrubs, 5-foot radius for the herbaceous layer, and 30-foot radius for vines.

The presence of wetland vegetation was determined when more than 50 percent of the dominant species in a sample plot had an indicator status of obligate (OBL), facultative-wet (FACW), or facultative (FAC). The dominant species for each layer in a plot were determined by ranking the species in decreasing order of percent cover and recording those species which, when cumulatively totaled, immediately exceeded 50 percent of the total cover of that layer. Additionally, any plant species that comprised 20 percent or more of the total cover for each layer was considered to be a dominant species.

Scientific nomenclature for plant species follows *A Checklist of New York State Plants* (Mitchell and Tucker 1997). The indicator status for each dominant plant species was determined using the *National List of Plants that Occur in Wetlands: Northeast (Region 1)* (Reed 1988), excluding the positive (+) or negative (-) modifiers for facultative indicator categories. For any species not included in the list, the indicator status was designated using the *Manual of Vascular Plants of Northeastern United States and Adjacent Canada* (Gleason and Cronquist 1991), *New Britton and Brown Illustrated Flora* (Gleason 1952), and *Gray's Manual of Botany* (Fernald 1950).

Soil and hydrology data were collected in soil pits or soil borer holes to a minimum depth of 20 inches within each sample plot. Soil characteristics were noted along the soil profile at the depth specified by the Corps criteria (U.S. Army Corps of Engineers 2009). Procedures for identifying hydric soils as outlined in the *Field Indicators of Hydric Soils in the United States* (USDA NRCS 2010) were also followed. Soil colors were determined by using the Munsell© color chart. Primary and secondary indicators of hydrology were also noted at each sample plot. The wetland boundaries were refined on the basis of intermediate soil borer holes along each transect.

4.0 RESULTS

The following section of the report provides a site description and wetland descriptions at the sales distribution center project site.

4.1 Site Description

The NYSDOT topographic map (Figure 1) shows the site located north of Julianne Road, west of Columbia Turnpike (NYS Routes 9 and 20), south of Schodack Valley Road (NYS Route 150), and east of NYS Interstate Route 90 in the Town of Schodack, Rensselaer County, New York (Figure 1). Elevations on the site range from approximately 270 to 374 feet above mean sea level (amsl). The northeast portion of the site was used as a sand and gravel quarry. The southwestern portion of the property contained two depressions and a saddle landform feature. There are two streams associated with the site (Figure 5). The Moordener Kill flows along the northwestern boundary of the site with a steep slope leading down to the stream bank. A tributary of the Moordener Kill flows along the northeast boundary of the site.

The NYSDEC New York State Freshwater Wetlands Map (Figure 2) does not show any state-regulated wetlands on, or adjacent to, the site.

According to the USFWS NWI Map (Figure 3), two wetland types occur on the property. They are designated by the USFWS as palustrine, emergent, persistent, semipermanently flooded (PEM1F) and palustrine, forested, broad-leaved deciduous, seasonally flooded/saturated (PFO1E) wetland cover types. These areas are located in the southwestern and southeastern portions of the site. The wetland in the southeastern corner of the property has both emergent and broad-leaf deciduous forest cover types. The wetland in the southwestern corner is a broad-leaf deciduous forest. They are associated with Wetlands A and E (Figure 10).

The Rensselaer County Soil Survey prepared by the Natural Resources Conservation Service indicates that nine different soils occur on the site (Figure 4):

- Castile gravelly silt loam, 0 to 5 percent slopes (CbA);
- Fluvaquents-Udifluvents complex, 0 to 3 percent slopes (FIA);
- Hoosic gravelly sandy loam, 3 to 8 percent slopes (HoB);
- Hoosic gravelly sandy loam, rolling (HoC);
- Hoosic gravelly sandy loam, steep (HoE);
- Limerick silt loam, 0 to 3 percent slopes (LmA);
- Nassau-Manlius complex, rolling (NaC);
- Pits, gravel (Pg); and
- Saprists and Aquents, ponded (Sa).

Fluvaquents-Udifluvents complex, Limerick silt loam, and Saprists and Aquents are recognized as hydric soils. These soils are located in the northwest and southeast portions of the site and are associated with Stream 2 and Wetland A.

The New York State Surface Water Classification map (Figure 5) shows a tributary of the Moordener Kill, as well as the Moordener Kill, flowing through the property. The tributary runs along the northeast border, and a small portion of the Moordener Kill passes through the northwest border of the property. This tributary is designated with a water quality of Class C with C Standards, and this creek is designated with a water quality of Class C with C(TS) Standards by the NYDEC. The Moordener Kill is a state-protected waterbody since it has a Classification or Standard of CT (trout) or higher.

The Town of Rensselaer Flood Rate Insurance Map prepared by the Federal Emergency Management Agency (Figure 6) shows small portions of the site in Zones A2 and B, and the majority of the site located within Zone C. Zone A2 indicates areas of 100-year flood; base flood elevations and flood hazard factors are determined. Zone B indicates areas between the limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. Zone C indicates areas of minimal flooding.

The 2007 (Figure 7) aerial photograph shows that the site is undeveloped land. The majority of the site is evergreen forest and deciduous forest uplands. The northern portion of the site contained an old sand and gravel quarry.

The drainage basin for the site (Figure 8) is approximately 160 acres in size. This figure shows the location of two relatively permanent waterbody (RPW) streams located on the site. The Moordener Kill (stream order 3) and a tributary of the Moordener Kill (stream order 1) are located in the northeastern and northwestern portions of the site. The Moordener Kill is a tributary to the Hudson River, a traditional navigable water (TNW) (Figure 9).

4.2 Site Ecology

The site consisted of quarries, deciduous forest upland, evergreen forest upland, wetlands, and streams.

The quarry consisted primarily of bare soil with scattered plants. Lespedeza bush clover (*Lespedeza capitata*) was the dominant herbaceous plant.

The majority of the site was deciduous forest upland, which comprised the central and western portions of the site. The dominant species found in the tree layer were black cherry (Prunus serotina), sugar maple (Acer saccharum), red maple (Acer rubrum), red oak (Quercus rubra), black oak (Quercus velutina), shagbark hickory (Carya ovata), big tooth aspen (Populus grandidentata), black birch (Betula lenta), green ash (Fraxinus pensylvanica), eastern white pine (Pinus strobus), and pitch pine (Pinus rigida). The dominant species found in the shrub layer were shagbark hickory, white ash (Fraxinus americana), tatarian honeysuckle (Lonicera tatarica), eastern hop hornbeam (Ostrya virginia), white pine, and sugar maple. The herbaceous layer contained Christmas fern (Polystichum achrosticoides), evergreen woodfern (Dryopteris intermedia), white pine, garlic mustard (Alliaria petiolata), tatarian honeysuckle, Canada goldenrod (Solidago canadensis), orchard grass (Dactylis glomerata), fescue (Fescuta sp.), and highbush blueberry (Vaccinium corymbosum).

The evergreen forest upland cover type contained white pine and pitch pine in the tree layer. The dominant species in the shrub layer were white pine, eastern hop hornbeam, and red maple. The herb layer contained highbush blueberry. This cover type is located in the central and southeastern portions of the site.

Wetlands and streams will be described in the following section.

4.3 Wetlands Descriptions

Four wetlands were found on the site and are referred to as Wetland A, Wetland D, Wetland E, and Wetland F. Two streams were found on the site and are referred to as Stream 1 (Wetland B) and Stream 2 (Wetland C). The boundaries of the wetlands and streams were flagged with coded surveyor's ribbon using the methods described in the Corps 2009 Interim Regional Supplement to the Corps of Engineers Wetland Delineation Manual. The delineated wetland boundaries are shown on Figure 10 and were surveyed by Brewer Engineering. Wetlands A, D, E and F total 3.54 acres. Streams 1 and 2 are located along the property boundary of the site. Stream 1 occupies approximately 0.05 acre of the site with a length of 237 feet within the property boundary. Stream 2 has a length of 234 feet within the property boundary.

Wetland sample plot and photograph locations are shown on Figure 11. Photographs and field data sheets are provided in Appendix A and Appendix B respectively.

Wetland A

Wetland A is the largest wetland on the site and is 3.03 acres. It is located in the southeastern portion of the site (Figure 10), and is associated with two USFWS NWI wetlands, including PEM1F and PFO1E (Figure 3). Wetland A is approximately 80 percent open water, and 20 percent shrub fringe surrounding the open water. The shrub fringe surrounding the open water consisted of a sparse tree layer as well as shrub and herb layers. The tree layer contained red maple and American elm (*Ulmus americana*). The shrub layer included silky dogwood (*Cornus amomum*), common buttonbush (*Cephalanthus occidentalis*), and northern arrow-wood (*Viburnum dentatum*). The herb layer contained blueflag (*Iris versicolor*) and purple loosestrife (*Lythrum salicaria*).

The soils of Wetland A are mapped as hydric and include Saprists and Aquents, ponded; and Limerick silt loam, 0 to 3 percent slopes (Figure 4). These soils fit three of the NRCS hydric soil indicators including A11 (depleted below dark surface), F2 (loamy gleyed matrix), and F3 (depleted matrix). The topsoil at the north end of the wetland consisted of black (7.5YR 2.5/1) loam, and the subsoil consists of dark gray (N 4/0) silt loam. The topsoil layer at the south end of the wetland consisted of black (10YR 2/1) loam. The subsoil at the south end consisted of gray (10YR 5/1) clay loam with brownish yellow (10YR 6/6) mottles.

Hydrology indicators in Wetland A included surface water, saturation, water marks, inundation visible on aerial imagery, and moss trim lines. This wetland has a surface water connection to a tributary of the Moordener Kill that flows along the eastern boundary of the site. Therefore, this wetland is considered to be a Corps-jurisdictional area.

Wetland D

Wetland D is 0.05 acre and is found in the southwestern portion of the site in a depression that can be seen on the topographic map (Figure 10). Wetland D is a vernal pool and contained only shrub and herb layers. There was silky dogwood in the shrub layer, and the herbaceous layer consisted of sedge (*Carex sp.*), and skunk-cabbage (*Symplocarpus foetidus*).

Soils in Wetland D are mapped as Castile gravelly silt loam, 0 to 5 percent slopes (Figure 4), a non-hydric soil. While not located in an area of hydric soils, soils consisted of dark gray (10YR 4/1) loam in the topsoil layer. The subsoil layer contained dark gray (10YR 4/1) silt loam with strong brown (7.5YR 5/8) mottles. This soil fits the NRCS F3 indicator (depleted matrix).

Hydrology indicators throughout this wetland included surface water, water stained leaves, and hydrogen sulfide odor. This wetland does not appear to be connected to a tributary system and is, therefore, considered isolated. The Corps should be consulted regarding the jurisdictional status of Wetland D.

Wetland E

Wetland E is 0.12 acre and is found in the southwestern corner of the site in a depression that can also be seen on the topographic map (Figure 10). It is associated with USFS NWI wetland PFO1E (Figure 3). Wetland E is a vernal pool and contained no tree or shrub layers. The herbaceous layer consisted of sedge and royal fern (*Osmunda regalis*).

Soils in Wetland E are mapped as Hoosic gravelly sandy loam, steep (Figure 4), a non-hydric soil. While not located in an area of hydric soils, soils consisted of brown (10YR 5/3) loam in the topsoil layer. The subsoil layer contained dark gray (10YR 4/1) clay loam. This soil fits the NRCS F3 indicator (depleted matrix).

Hydrology indicators throughout this wetland included surface water, and water stained leaves. This wetland does not appear to be connected to a tributary system and is, therefore, considered isolated. The Corps should be consulted regarding the jurisdictional status of Wetland E.

Wetland F

Wetland F is 0.34 acre and is found in the southwestern portion of the site (Figure 10). Wetland F is a deciduous forest wetland located in a low area associated with a saddle landform feature. The tree layer contained green ash (*Fraxinus pennsylvanica*) and red maple. The shrub layer consists of American elm.

Soils in Wetland F are mapped as Castile gravelly silt loam, 0 to 5 percent slopes (Figure 4), a non-hydric soil. While not located in an area of hydric soils, soils consisted of very dark grayish brown (10YR 3/2) silt loam in the topsoil and subsoil layers. The subsoil also contained brown (7.5YR 4/4) mottles. This soil fits the NRCS A11 (depleted below dark surface) and F3 (depleted matrix) indicators.

Hydrology indicators throughout this wetland included water marks, sediment deposits, inundation visible on aerial imagery, sparsely vegetated concave surface, water-stained leaves, oxidized rhizospheres along living roots, drainage patterns, moss trim lines, geomorphic position, and mircotopographic relief. Wetland F appears to receive storm water/upland drainage from a residential development via a constructed swale to the south. This wetland does not have an outlet and is not connected to a tributary system and is, therefore, considered isolated. The Corps should be consulted regarding the jurisdictional status of Wetland F.

Stream 1

Stream 1 (Wetland B) is located along the northeastern boundary of the site, and occupies approximately 0.05 acre of the site (Figure 10). The stream enters and exits the property several times along the site boundary, and 237 feet of this stream occurs within the boundary of the site. This stream appears to be an intermittent RPW, and contained 5 inches of water at the time of the delineation. Stream 1 is a tributary of the Moordener Kill and is a Class C stream with C standards. Because Stream 1 has a connection to the Hudson River via the Moordener Kill, it is considered a Corps jurisdictional waterbody because the Hudson River is considered a TNW.

Stream 2

Stream 2 is a perennial RPW located along the northwestern boundary of the site (Figure 10). The average depth was approximately 18 inches and 234 feet of this stream occured within the boundary of the site. There is a steep slope leading down to the edge of the stream bank. Stream 2 is part of the Moordener Kill and is a Class C stream with C(TS) Standards. This stream is a state-protected waterbody since has a Classification or Standard of CT (trout) or higher. The Moordener Kill flows into the Hudson River to the west. The Hudson River a TNW, therefore the Moordener Kill is a Corps jurisdictional waterbody.

5.0 SUMMARY

Terrestrial Environmental Specialists, Inc. (TES) was contracted by Bergmann Associates to perform a wetland investigation on a site in the Town of Schodack, Rensselaer County, New York. The study area is approximately 106 acres and is located south of Schodack Valley Road (NYS Route 150), north of Julianne Road, east of Interstate Route 90, and west of Columbia Turnpike (NYS Routes 9 and 20).

TES collected and reviewed available background information and maps including a topographic map, wetland maps, soils map and descriptions, surface water classification map, flood rate insurance map, and an aerial photograph to locate potential wetlands on the site. There are no mapped state-regulated wetlands on the site.

Delineation of the wetlands on the site and data collection along the boundaries were performed by TES on November 16-17, 2011. The boundaries were delineated using the federal criteria for vegetation, soils, and hydrology (U.S. Army Corps of Engineers 2009, Reed 1988, and NRCS 2011).

Four wetlands were delineated and are referred to as Wetland A (3.03 acres), Wetland D (0.05 acre), Wetland E (0.12 acre) and Wetland F (0.34 acre). There are also two streams on the site referred to as Stream 1 (Wetland B) and Stream 2 (Wetland C). Wetland A is an open water wetland associated with Stream 1. This wetland is a federal-jurisdictional area since it is associated with tributary systems to navigable waters. Wetland A is located in the southeastern portion of the site.

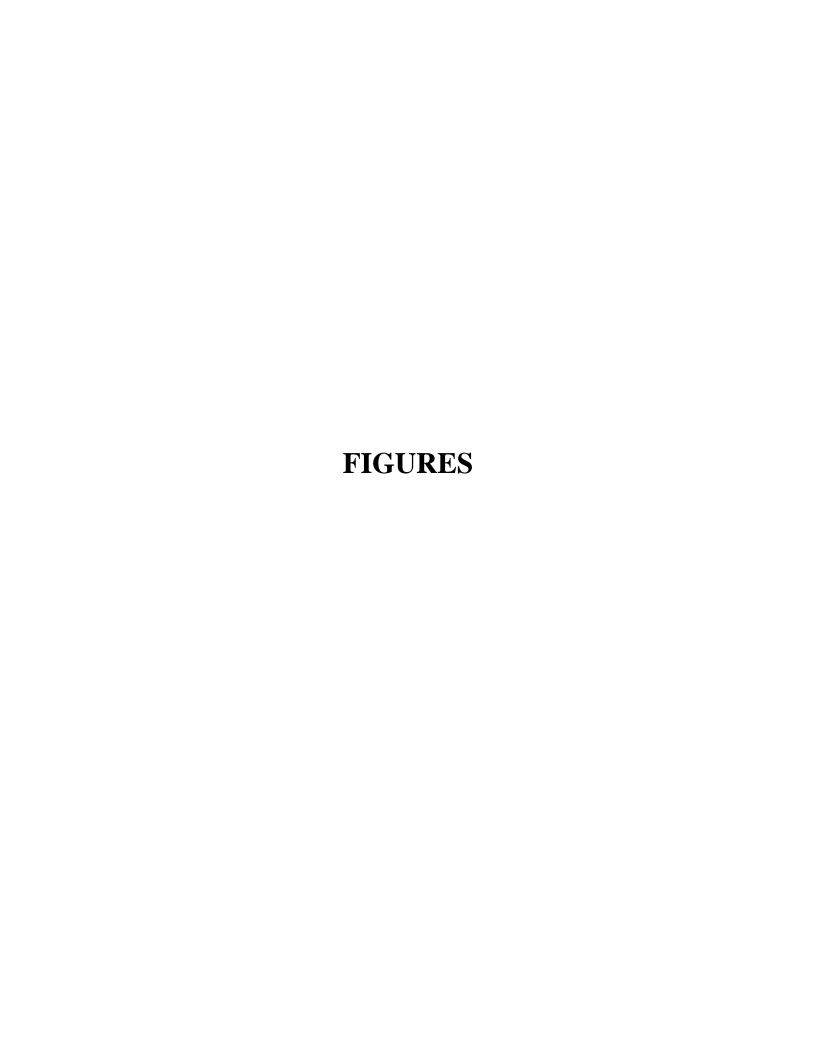
Wetland D is a vernal pool located in the southwestern portion of the site. Wetland E is also a vernal pool located in the southwestern portion of the site. Wetland F is a deciduous forest wetland located in the southwestern portion of the site and does not have an outlet.

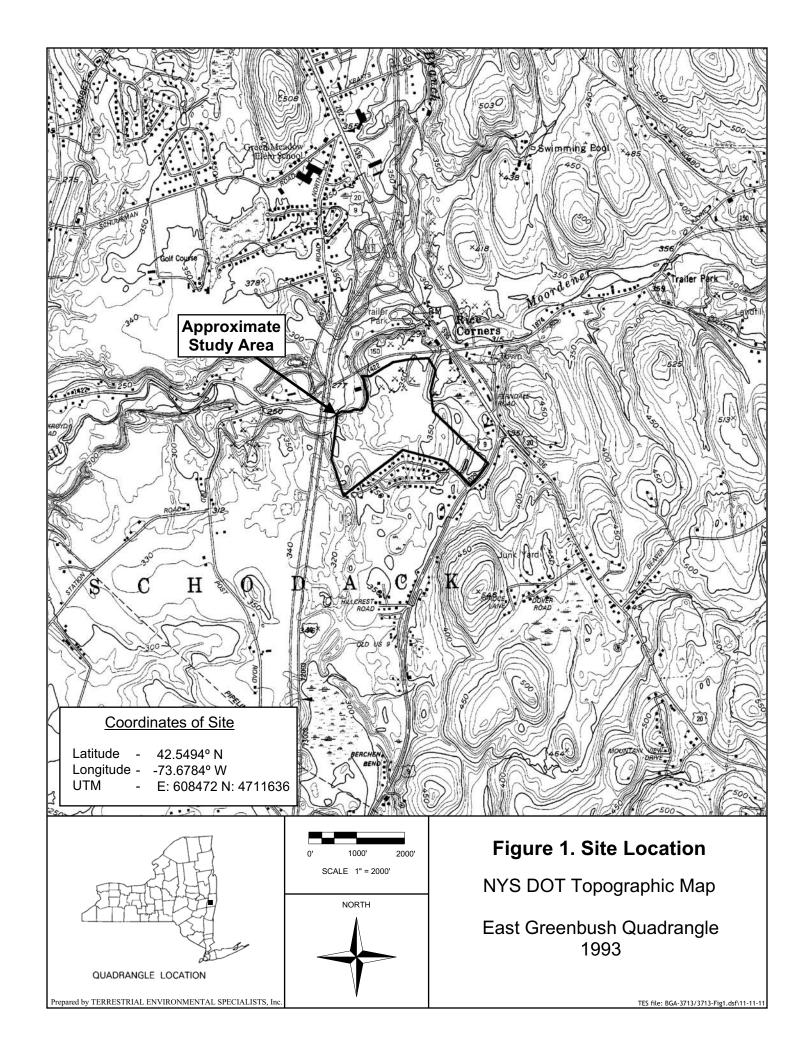
Stream 1 is located along the northeastern boundary of the site, and appears to be an intermittent RPW. It is a tributary of the Moordener Kill and is designated as a Class C stream with C Standards. Stream 2 is located along the northwestern boundary of the site and is a perennial RPW. It is part of the Moordener Kill and is designated as a Class C stream with C(TS) Standards. Stream 2 is a state-protected waterbody since it has a Classification or Standard of CT (trout) or higher. Streams 1 and 2 are considered Corps jurisdictional water bodies as they are both associated with tributary systems to navigable waters.

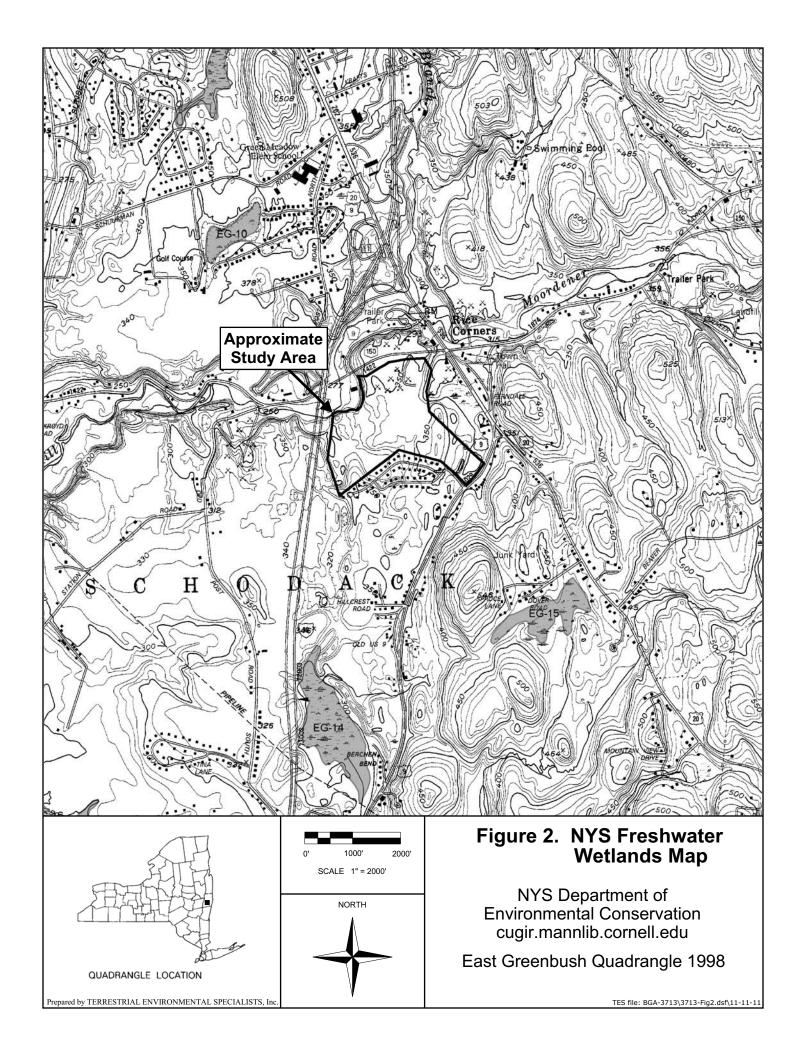
Since Wetland A has an apparent surface water connection to a tributary system of navigable waters, it is not an isolated wetland. Therefore, TES considers this wetland to be a Corps-jurisdictional area. Wetlands D, E, and F are not considered jurisdictional wetlands because it would appear they meet the definition of an isolated wetland.

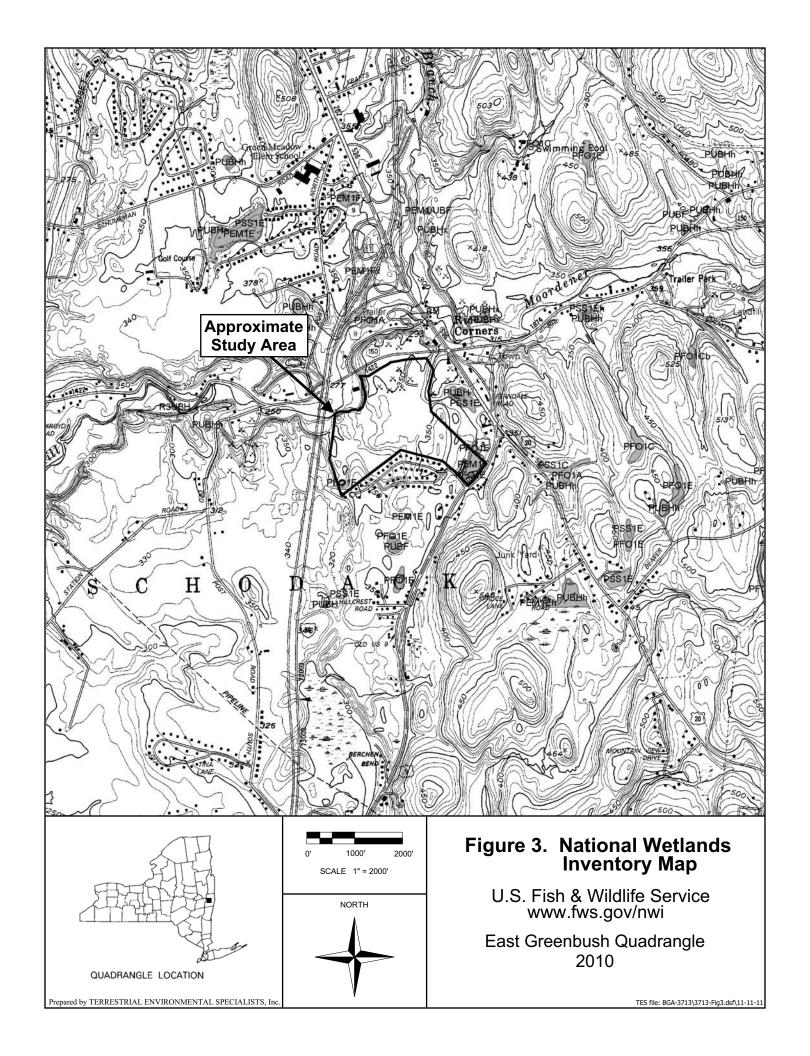
6.0 REFERENCES

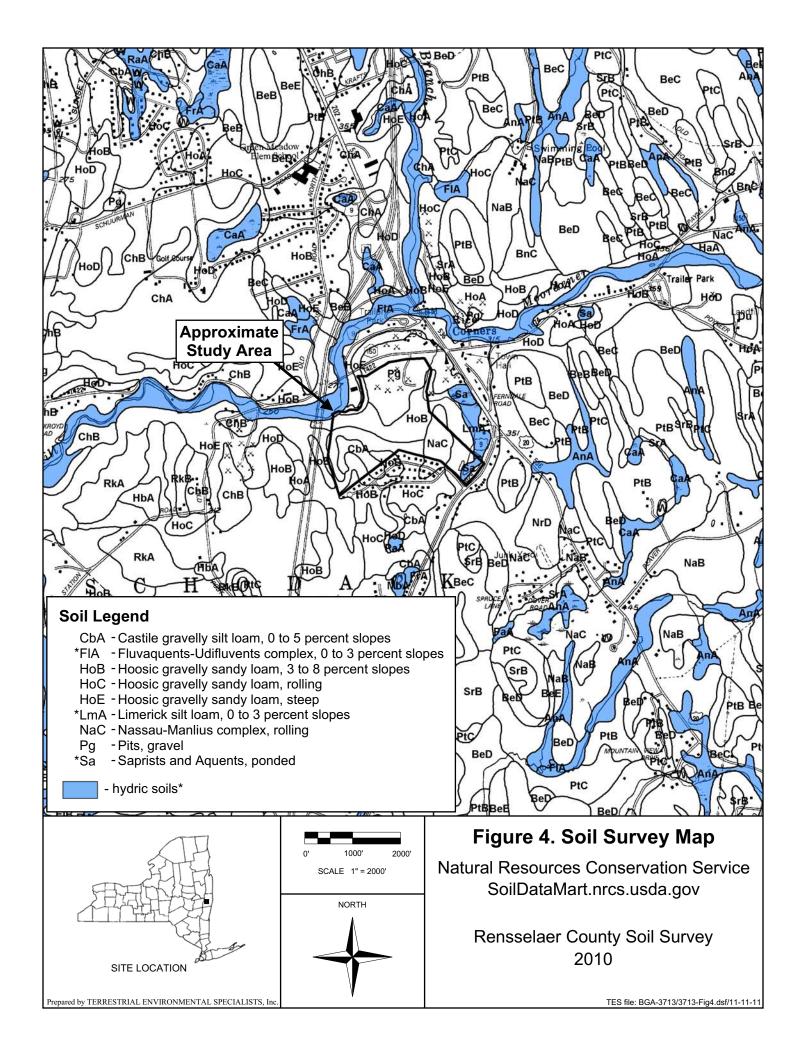
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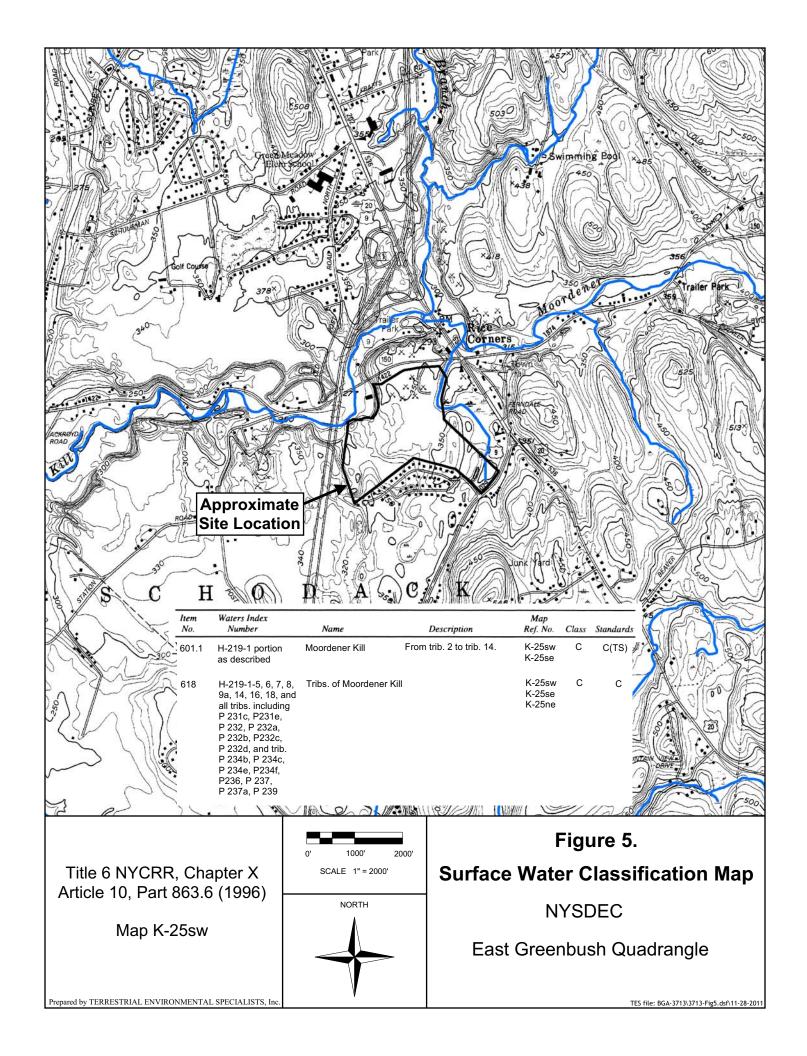


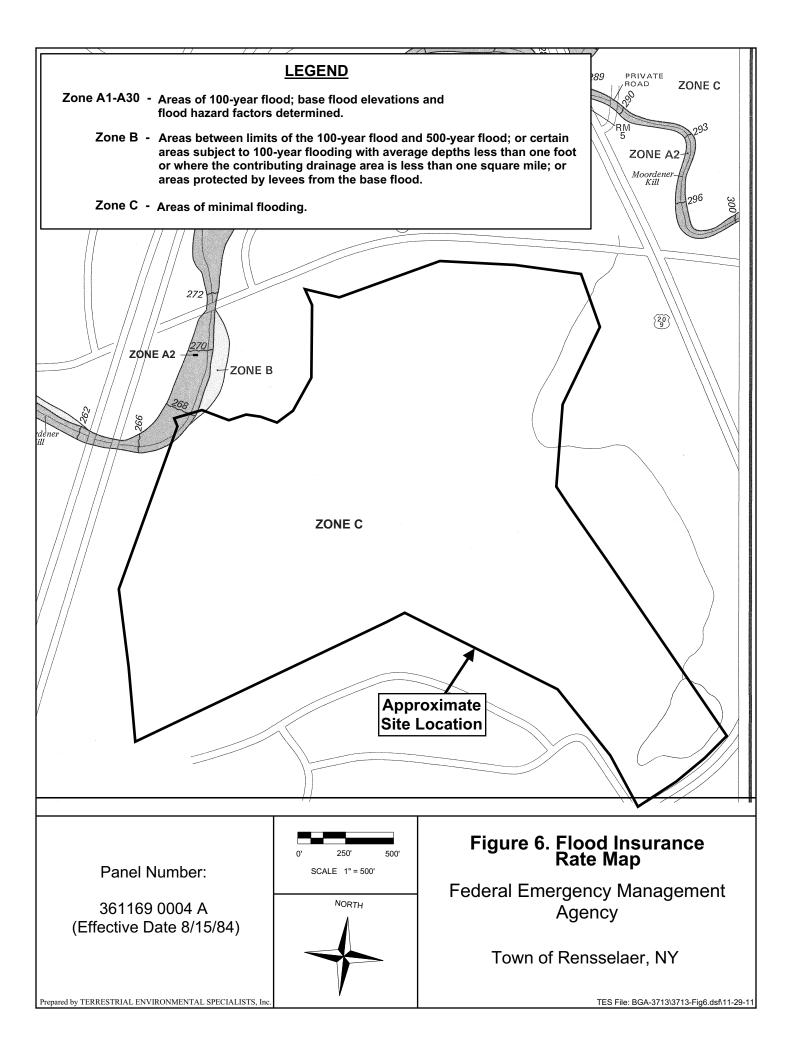




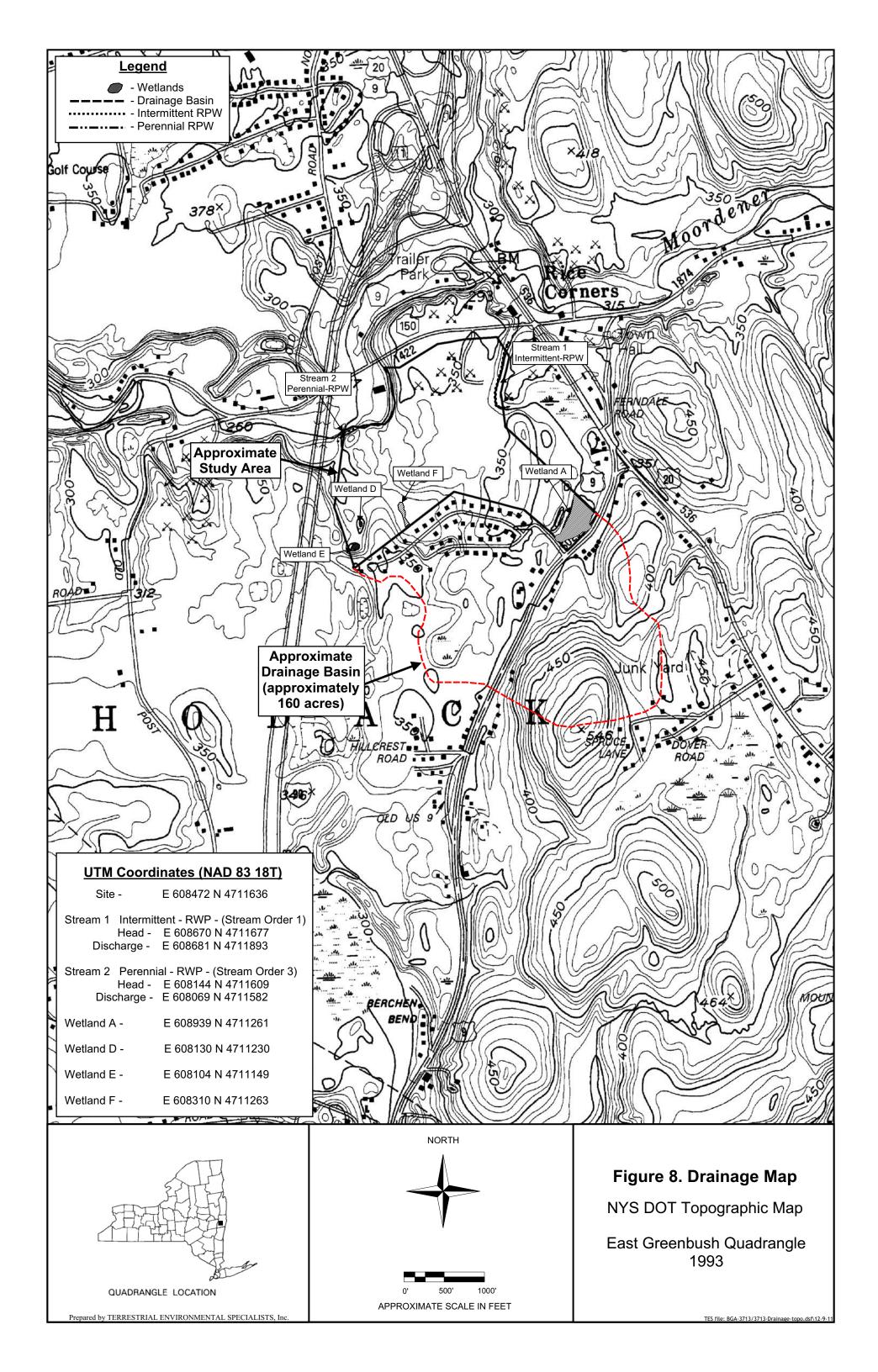


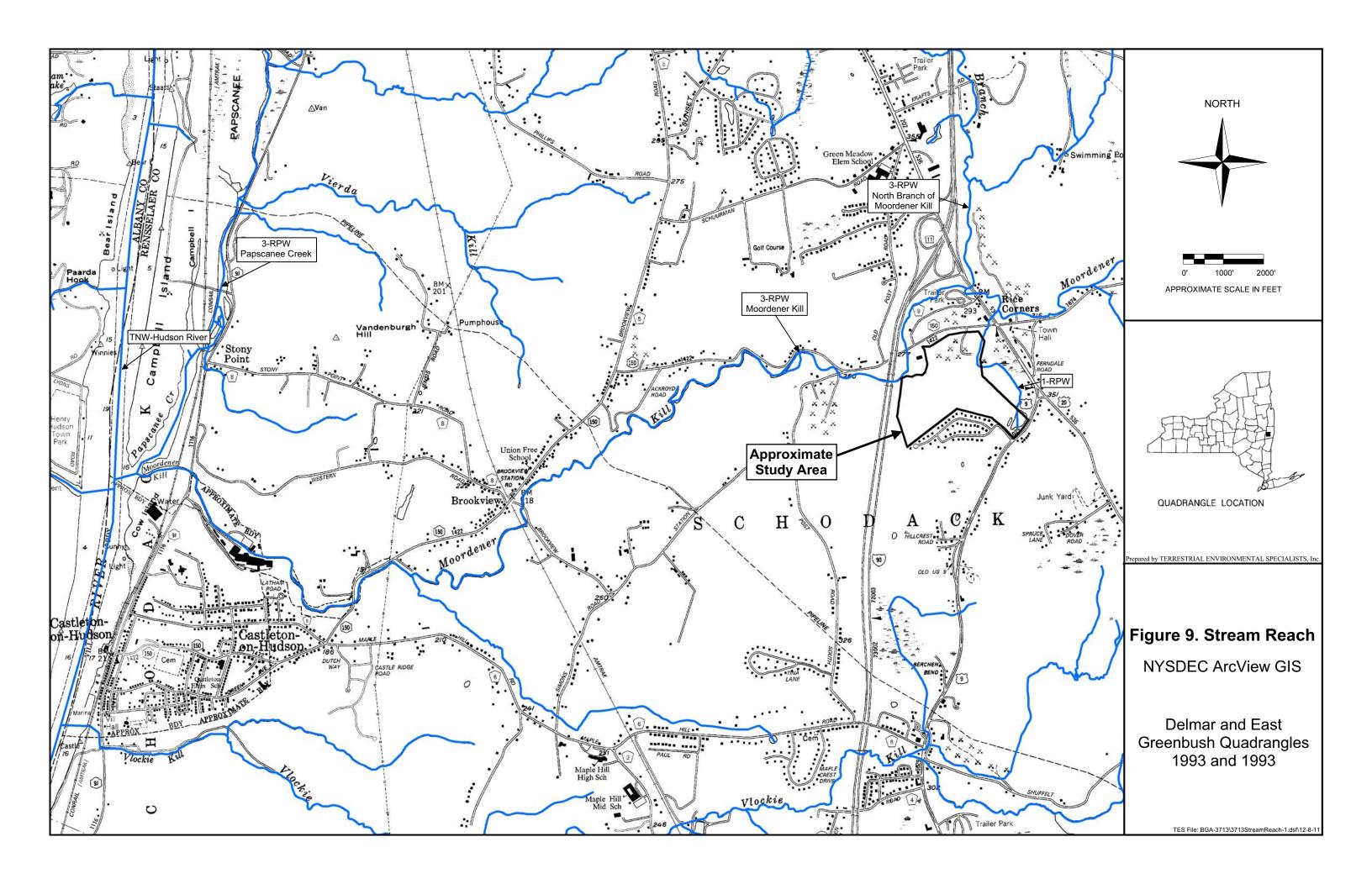


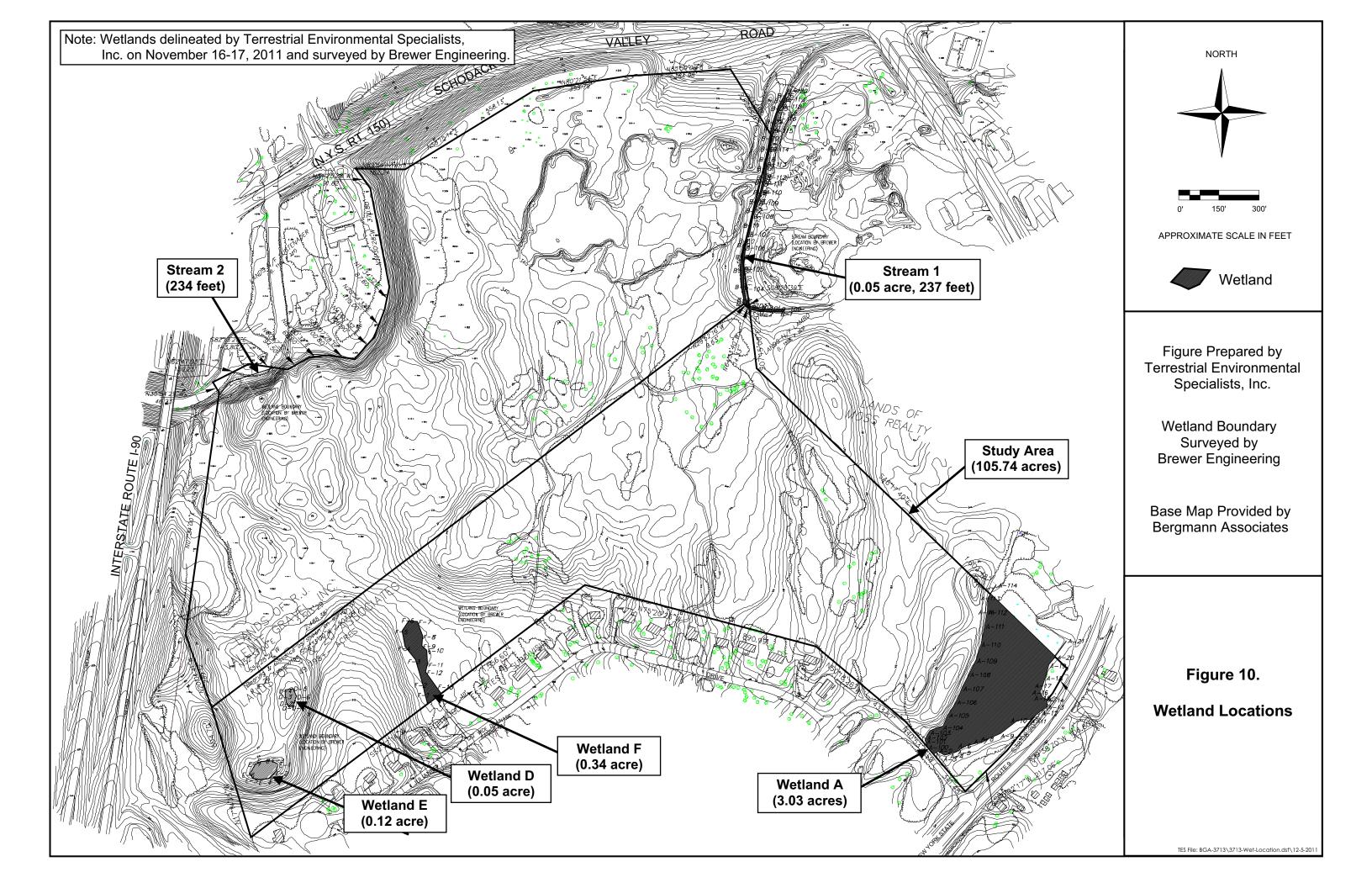


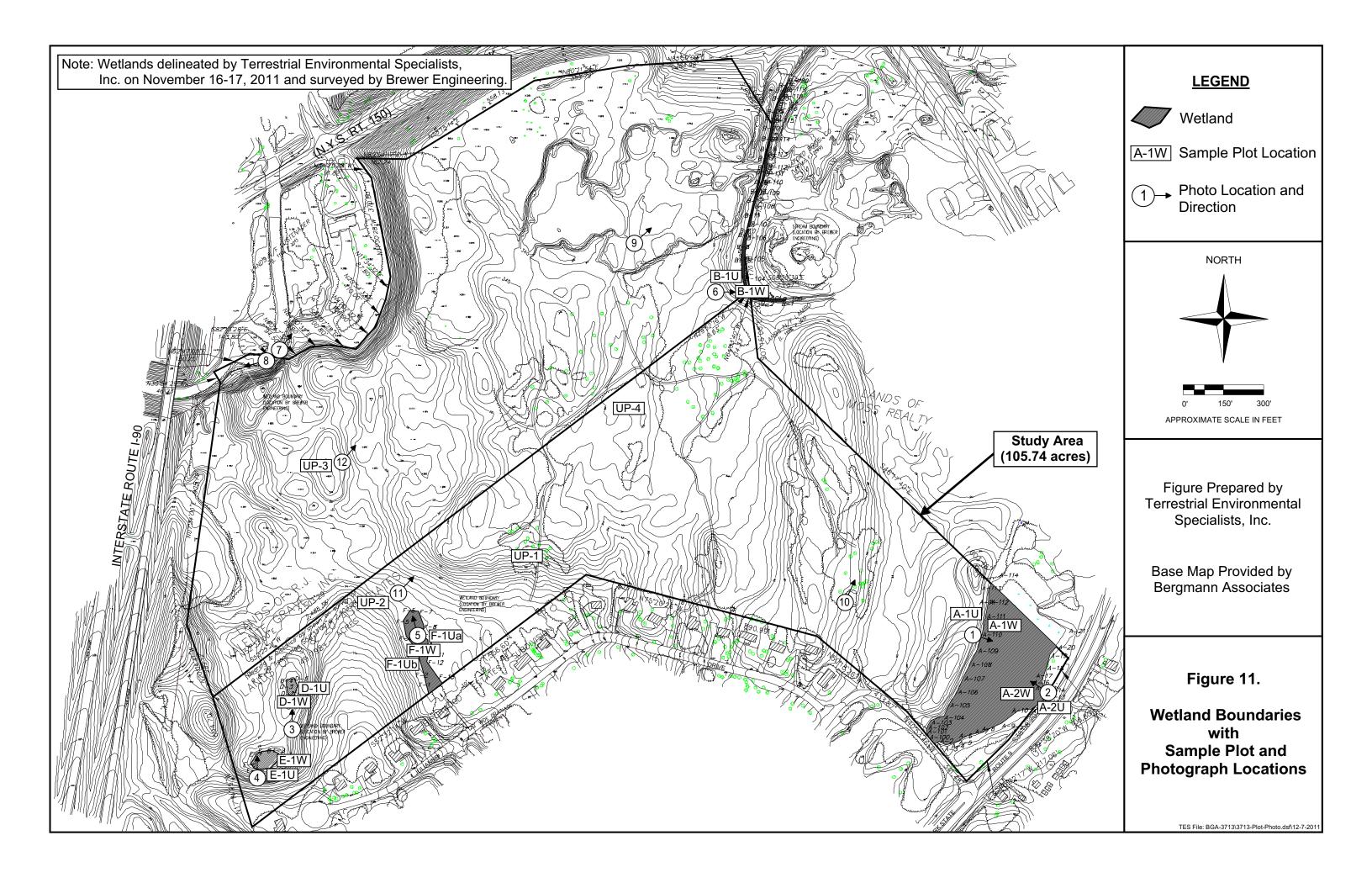












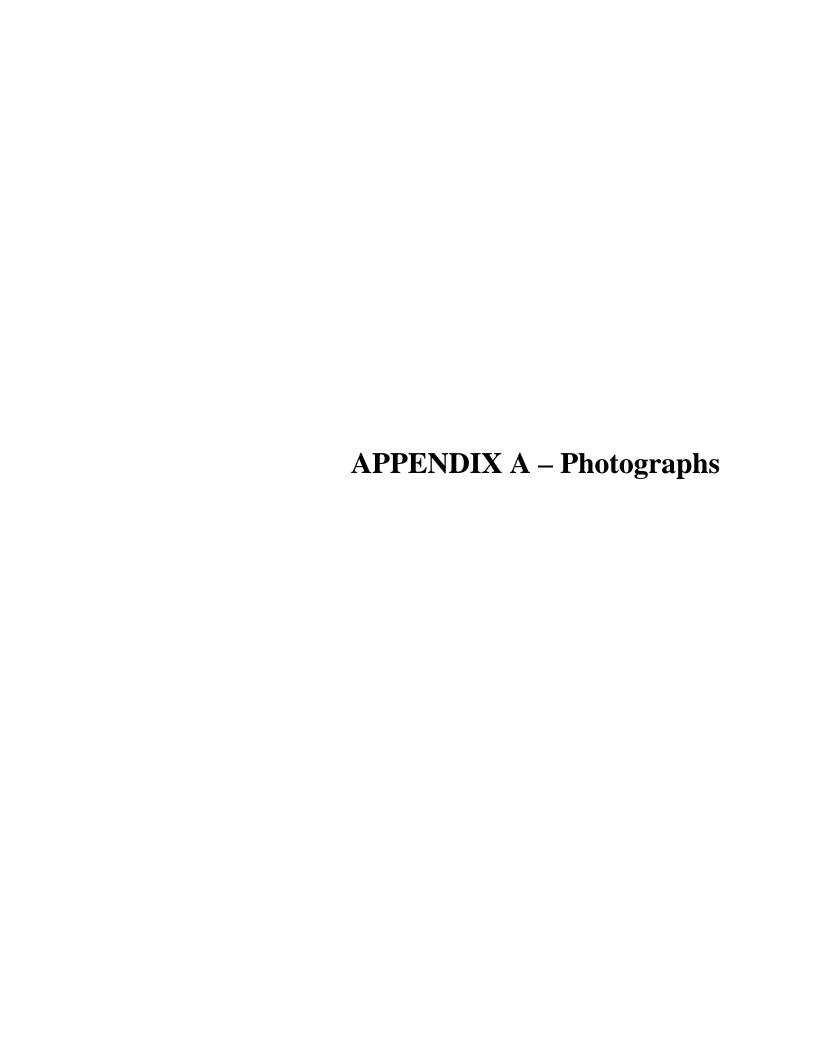




Photo 1. Wetland A Plot A-1W



Photo 3. Wetland D Plot D-1W



Photo 2. Wetland A Plot A-2W



Photo 4. Wetland E Plot E-1W



Photo 5. Wetland F Plot F-1W



Photo 7. Stream 2 Moordener Kill



Photo 6. Stream 1 Plot B-1W



Photo 8. Stream 2 Moordener Kill



Photo 9. Mined Area



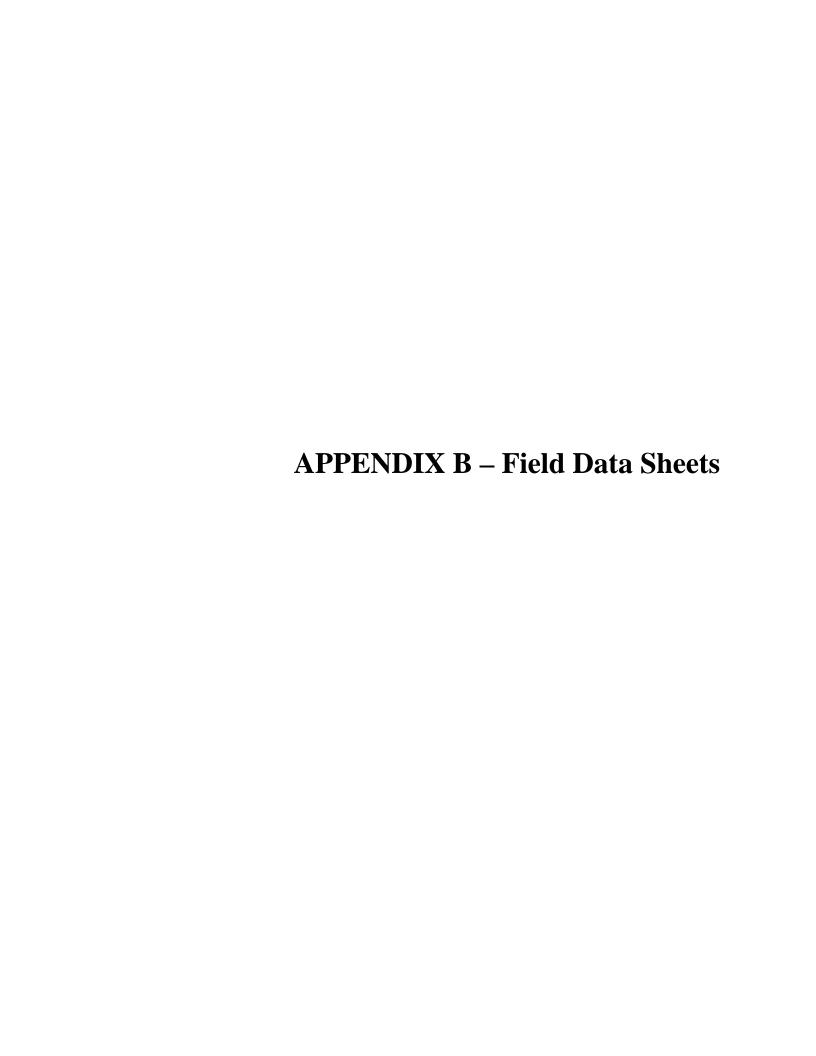
Photo 11. Plot Up-2 Deciduous Forest Upland



Photo 10. Evergreen Forest Upland



Photo 12. Deciduous Forest Upland



WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 A-1U Applicant/Owner: Clancy & Theys State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Hillside Soil Map Unit Name: Hoosic gravelly sandy loam, 3 to 8 percent slopes Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes 💿 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area **Hydrophytic Vegetation Present?** Yes 🔾 No 💿 Yes O No • within a Wetland? Yes O No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Remarks: Flag A-111, Photo 1 **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 1. Prunus serotina 20 **✓** 20.0% FACU (A) That are OBL, FACW, or FAC: 2. Acer rubrum 60 **✓** 60.0% FAC **Total Number of Dominant** 3. Carya ovata 20 ✓ 20.0% 5 Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 20.0% (A/B) That Are OBL, FACW, or FAC: 100 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Fraxinus americana 40 **✓** 88.9% FACU Total % Cover of: Multiply by: 2. Viburnum lentago 5 11.1% FAC OBL species x 1 =3. 0 0.0% 0 FACW species x 2 =4. 0 0.0% 195 FAC species 0 0.0% 332 FACU species 45 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Alliaria petiolata 3 ✓ 100.0% FACU 148 527 (B) Column Totals: 2. 0 0.0% 3.561 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 3 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0 0.0%

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

0

0.0%

= Total Cover

No 💿

Hydrophytic

Yes 🔾

Vegetation

Present?

Soil Sampling Point: A-1U

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

0-7 7-18+	Color (r				
	7.5YR	noist)	% 100%	Color (moist) % Type ¹ Loc ²	Texture Remarks
		2.5/1			Loam
		4/4	100%		Silt Loam
pe: C=Conce	entration. D	 =Depletion	. RM=Reduce	ed Matrix, CS=Covered or Coated Sand Grains ² Loc	 cation: PL=Pore Lining. M=Matrix
dric Soil In	ndicators:				Indicators for Problematic Hydric Soils ³ :
Histosol (A	1)			Stripped Matrix (S6) (Drop in LRR R?)	2 cm Muck (A10) (LRR K, L, S)
Histic Epipe	edon (A2)			Dark Surface (S7) (MLRA 149B of LRR S)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic	c (A3) (exce	pt in MLRA	143)	Polyvalue Below Surface (S8) (LRR R, S)	5 cm Mucky Peat or Peat (S3)
Hydrogen S	Sulfide (A4)			☐ Thin Dark Surface (S9) (LRR R, S)	Dark Surface (S7) (LRR K, L)
Stratified L	ayers (A5)			Loamy Mucky Mineral (F1)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted B	Below Dark S	Surface (A1	1)	Loamy Gleyed Matrix (F2)	☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dark	Surface (A1	.2)		Depleted Matrix (F3)	Iron-Manganese Masses (F12)
Sandy Muc	ck Mineral (S	51)		Redox Dark Surface (F6)	Piedmont Floodplain Soils (F19)
Sandy Gley	yed Matrix (S	54)		Depleted Dark Surface (F7)	Red Parent Material (TF2)
Sandy Red				Redox Depressions (F8)	Other (Explain in Remarks)
Indicators of	riyur opriyuc	vegetatioi	and wedant	hydrology must be present unless disturbed or prob	iciliatic.
	yer (if obs	erved):			Hydric Soil Present? Yes No •
Type: Depth (inch	yer (if obs	erved):			Hydric Soil Present? Yes ○ No •
estrictive La Type: Depth (inch	yer (if obs	erved):			Hydric Soil Present? Yes ○ No •
estrictive La Type: Depth (inch emarks:	es):	erved):			Hydric Soil Present? Yes ○ No •
estrictive La Type: Depth (inche emarks:	yer (if obso				Hydric Soil Present? Yes No Secondary Indicators (minimum of two required)
strictive La Type: Depth (incher emarks:	ryer (if observes):	cators:	ne is requir	ed; check all that apply)	
strictive La Type: Depth (incher emarks:	rology Indicators (mini	cators:	ne is requir	ed; check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required)
strictive La Type: Depth (incher emarks: rdrology etland Hydre imary Indica Surface Wa	rology Indicators (mini	cators:	ne is requir		Secondary Indicators (minimum of two required)
estrictive La Type: Depth (incher emarks: drology etland Hydri imary Indical Surface Wa	rology Indicators (miniater (A1)	cators:	ne is requir	Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
rype: Depth (inchemarks: drology etland Hydreimary Indicates Surface Water	rology Indicators (miniater (A1) or Table (A2) (A3)	cators:	ne is requir	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
estrictive La Type: Depth (incher emarks: /drology etland Hydroimary Indical Surface Wall High Water Saturation Water Mark	rology Indicators (miniater (A1) or Table (A2) (A3)	cators: imum of c	ne is requir	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8)
estrictive La Type: Depth (incher emarks: /drology etland Hydroimary Indical Surface Wall High Water Saturation Water Mark	rology Indiators (miniater (A1) or Table (A2) (A3) cks (B1) Deposits (B2)	cators: imum of c	ne is requir	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8)
Pestrictive Lar Type: Depth (inchemarks: Performance of the content of the conte	rology Indiators (miniater (A1) or Table (A2) (A3) cks (B1) Deposits (B2)	cators: imum of c	ne is requir	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Pestrictive Lar Type: Depth (inchemarks: Performance of the content of the conte	rology Indicators (minimater (A1) (A3) (ks (B1) (Deposits (B2) sits (B3) or Crust (B4)	cators: imum of c	ne is requir	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
pettand Hydromary Indicase Surface Washington Water Mark Sediment I Drift depose Algal Mat of Iron Depose	rology Indicators (minimater (A1) (A3) (ks (B1) (Deposits (B2) sits (B3) or Crust (B4)	cators: imum of c		Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
strictive La Type: Depth (inchermarks: drology etland Hydre imary Indica Surface Wa High Water Saturation Water Marl Sediment [Drift depose Algal Mat of Iron Depose Inundation	rology Indiators (miniators (Mini	cators: imum of c	ery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Secondary Indicators (minimum of two required Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
rype: Depth (inchemarks: rdrology etland Hydreimary Indication Surface Water Mark Sediment Control Drift deposed Algal Mater Control Drift deposed Inundation Sparsely Value Control Drift Control Deposed Inundation Sparsely Value Control Deposed Control	rology Indicators (minimater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4) sits (B5) n Visible on A egetated Co	cators: imum of continum) Aerial Imag ncave Surfa	ery (B7) ace (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 A-1W Applicant/Owner: Clancy & Theys State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Shoreline Soil Map Unit Name: Saprists and Aquents, ponded Cover Type: OW, Shrub Fring Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Yes Is the Sampled Area **Hydrophytic Vegetation Present?** No O within a Wetland? Yes No No O Yes **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes No O Wetland Hydrology Present? Remarks: Flag A-111, Photo 2 **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 0 0.0% 1._ That are OBL, FACW, or FAC: (A) 2. 0 0.0% **Total Number of Dominant** 0 0.0% Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 100.0% (A/B) That Are OBL, FACW, or FAC: 0 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Cornus amomum 16.7% FACW Total % Cover of: Multiply by: 15 2. Cephalanthus occidentalis 70 77.8% OBL OBL species x 1 =3. Viburnum dentatum 5 5.6% FAC 50 FACW species x 2 =0 0.0% 15 FAC species x 3 = 0 0.0% 0 FACU species 90 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. 0 0.0% 100 135 (B) Column Totals: 2. 0 0.0% 1.350 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ✓ Dominance Test is > 50% 6. 0.0% 0 7. ✓ Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 0 = Total Cover $^{ extstyle 1}$ Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. Vitis riparia 10 ☐ 100.0% FACW

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

0

10

0.0%

= Total Cover

No O

Hydrophytic

Yes 💿

Vegetation

Present?

Soil

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

Redox Features

(inches) Color (moist) % 0-12 7.5YR 2.5/1 100% 12-18+ N 4/0 100% Type: C=Concentration. D=Depletion. RM=Reduce lydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLRA 143) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation and wetland estrictive Layer (if observed): Type: Depth (inches): emarks:	Color (moist) Color (moist) Colo	Texture Remarks Loam Muck Silt Loam Silt Loam Silt Loam Silt Loam Silt Loam Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, S) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
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Hric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLRA 143) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) dicators of hydrophytic vegetation and wetland trictive Layer (if observed): Type: Depth (inches):	Stripped Matrix (S6) (Drop in LRR R?) Dark Surface (S7) (MLRA 149B of LRR S) Polyvalue Below Surface (S8) (LRR R, S) Thin Dark Surface (S9) (LRR R, S) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, S) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
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Adric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLRA 143) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):	Stripped Matrix (S6) (Drop in LRR R?) Dark Surface (S7) (MLRA 149B of LRR S) Polyvalue Below Surface (S8) (LRR R, S) Thin Dark Surface (S9) (LRR R, S) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Indicators for Problematic Hydric Soils ³ : 2 cm Muck (A10) (LRR K, L, S) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
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Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):	 □ Thin Dark Surface (S9) (LRR R, S) □ Loamy Mucky Mineral (F1) ✔ Loamy Gleyed Matrix (F2) □ Depleted Matrix (F3) □ Redox Dark Surface (F6) □ Depleted Dark Surface (F7) □ Redox Depressions (F8) 	Dark Surface (S7) (LRR K, L) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Stratified Layers (A5) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):	□ Loamy Mucky Mineral (F1) ☑ Loamy Gleyed Matrix (F2) □ Depleted Matrix (F3) □ Redox Dark Surface (F6) □ Depleted Dark Surface (F7) □ Redox Depressions (F8)	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):	✓ Loamy Gleyed Matrix (F2) ☐ Depleted Matrix (F3) ☐ Redox Dark Surface (F6) ☐ Depleted Dark Surface (F7) ☐ Redox Depressions (F8)	☐ Thin Dark Surface (S9) (LRR K, L) ☐ Iron-Manganese Masses (F12) ☐ Piedmont Floodplain Soils (F19) ☐ Red Parent Material (TF2) ☐ Other (Explain in Remarks)
Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):	Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	☐ Iron-Manganese Masses (F12) ☐ Piedmont Floodplain Soils (F19) ☐ Red Parent Material (TF2) ☐ Other (Explain in Remarks)
Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):	Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8)	Piedmont Floodplain Soils (F19) Red Parent Material (TF2) Other (Explain in Remarks)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):	Depleted Dark Surface (F7) Redox Depressions (F8)	Red Parent Material (TF2) Other (Explain in Remarks)
Sandy Redox (S5) indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):	Redox Depressions (F8)	Other (Explain in Remarks)
indicators of hydrophytic vegetation and wetland strictive Layer (if observed): Type: Depth (inches):		
strictive Layer (if observed): Type: Depth (inches):	hydrology must be present unless disturbed or prob	plematic.
Type: Depth (inches):		
ydrology		
etland Hydrology Indicators:		Secondary Indicators (minimum of two required)
imary Indicators (minimum of one is require	ed: check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)	Water-Stained Leaves (B9)	
7	Aquatic Fauna (B13)	Drainage Patterns (B10)
☐ High Water Table (A2) ☐ Saturation (A3)	Marl Deposits (B15)	Moss Trim Lines (B16)
		Dry Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres along Living Roots (C	,
Drift deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	☐ Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Uther (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		☐ FAC-Neutral Test (D5)
eld Observations:		
· · · · ·	Depth (inches): 4	
rface Water Present? Yes • No •	, , ,	
urface Water Present? Yes No No Yes No No No No No No No No	Depth (inches):	land Hydrology Present? Yes No
arface Water Present? Ater Table Present?	Depth (inches):	land Hydrology Present? Yes No
riface Water Present? ater Table Present? Attraction Present?	Depth (inches): Wet	, , , , , , , , , , , , , , , , , , ,
Yes No enturation Present? Yes No No recturation Present? Yes No	Depth (inches): Depth (inches): 0	, , , , , , , , , , , , , , , , , , , ,

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 Applicant/Owner: Clancy & Theys A-2U State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Toeslope Soil Map Unit Name: Hoosic gravelly sandy loam, 3 to 8 percent slopes Cover Type: OF/Roadside Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes 💿 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area **Hydrophytic Vegetation Present?** Yes 🔾 No 💿 Yes O No • within a Wetland? Yes 🔾 No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Remarks: A-12, Photo 3 **VEGETATION -** Use scientific names of plants. **Dominant** Species? Rel.Strat. Indicator Absolute **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 0 0.0% 1.__ That are OBL, FACW, or FAC: (A) 0 2. 0.0% **Total Number of Dominant** 0.0% Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 50.0% (A/B) That Are OBL, FACW, or FAC: 0 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. 0.0% Total % Cover of: Multiply by: 2. 0 0.0% OBL species x 1 =3. 0 0.0% 0 FACW species x 2 =4. 0 0.0% 240 FAC species 0 0.0% 140 FACU species 0 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius UPL species 1. Setaria sp. 15 13.0% FAC 115 380 (B) Column Totals: 2. Dactylis glomerata 35 30.4% FACU 3.304 Prevalence Index = B/A =3. Festuca sp. _____ 65 **✓** 56.5% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 115 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0.0%

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

0

0.0%

= Total Cover

No 💿

Hydrophytic

Vegetation

Present?

Yes 🔾

Soil Sampling Point: A-2U

	-	_	
Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)			
rionie Description. (Describe to the depth needed to document the malcator of commit the absence of malcators.)			

Depth		Matrix		Redox Features	-
(inches)	Color (<u>%</u> _	Color (moist) % Type 1 Loc2	Texture Remarks
0-3	10YR	4/3	100%		Loam Stony Road Fill
3+					Stolly Road Fill
	-	-			
/pe: C=Cond	entration. D	=Depletio	n. RM=Reduc	ced Matrix, CS=Covered or Coated Sand Grains ² Loca	ation: PL=Pore Lining. M=Matrix
ydric Soil I	ndicators:				Indicators for Problematic Hydric Soils ³ :
Histosol (A	A1)			Stripped Matrix (S6) (Drop in LRR R?)	2 cm Muck (A10) (LRR K, L, S)
Histic Epip	edon (A2)			☐ Dark Surface (S7) (MLRA 149B of LRR S)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histi	ic (A3) (exce	ept in MLR	4 143)	Polyvalue Below Surface (S8) (LRR R, S)	5 cm Mucky Peat or Peat (S3)
Hydrogen	Sulfide (A4)			☐ Thin Dark Surface (S9) (LRR R, S)	☐ Dark Surface (S7) (LRR K, L)
Stratified I	Layers (A5)			Loamy Mucky Mineral (F1)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted I	Below Dark S	Surface (A	11)	Loamy Gleyed Matrix (F2)	☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dark	Surface (A	12)		Depleted Matrix (F3)	☐ Iron-Manganese Masses (F12)
Sandy Mu	ck Mineral (S	51)		Redox Dark Surface (F6)	Piedmont Floodplain Soils (F19)
Sandy Gle	yed Matrix (S4)		Depleted Dark Surface (F7)	Red Parent Material (TF2)
Sandy Red	. ,			Redox Depressions (F8)	Other (Explain in Remarks)
Indicators of	hydrophytic	vegetatio	n and wetlan	d hydrology must be present unless disturbed or proble	ematic.
Type: Depth (inch	nes):				Hydric Soil Present? Yes ○ No ●
Type: Depth (inch emarks:					Hydric Soil Present? Yes ○ No ●
Type: Depth (inchemarks:					Hydric Soil Present? Yes ○ No ●
Type: Depth (inchemarks:	/ rology Indi				Hydric Soil Present? Yes No Secondary Indicators (minimum of two required)
Type: Depth (inchemarks:	/ rology Indi		one is requi	ired; check all that apply)	
Depth (inchemarks: drology etland Hyde imary Indic	rology Indicators (min	imum of	one is requi	Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
Depth (inchemarks: drology etland Hydi mary Indic Surface W High Wate	rology Indicators (min fater (A1) er Table (A2)	imum of	one is requi	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Type: Depth (inclemarks: Tdrology etland Hydrimary Indic Surface W High Wate Saturation	rology Indicators (min fater (A1) er Table (A2)	imum of	one is requi	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
Type: Depth (inchemarks: /drology etland Hydrimary Indice Surface W High Water Saturation Water Man	rology Indicators (min fater (A1) er Table (A2) (A3) rks (B1)	imum of	one is requi	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8)
Type: Depth (inchemarks: Tdrology etland Hydrimary India Surface W High Wate Saturation Water Mar Sediment	rology Indicators (min fater (A1) er Table (A2) (A3) rks (B1) Deposits (B2	imum of	one is requi	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Depth (inchemarks: Torology Torolo	rology Indicators (min later (A1) er Table (A2) In (A3) rks (B1) Deposits (B2) sits (B3)	imum of	one is requi	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Type: Depth (inchemarks: Tdrology etland Hydrimary Indice Surface W High Water Saturation Water Mar Sediment Drift depo Algal Mat	rology Indicators (min later (A1) er Table (A2) (A3) rks (B1) Deposits (B2 sits (B3) or Crust (B4	imum of	one is requi	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Type: Depth (incleanance) Type: Depth (incleanance) Type: Depth (incleanance) Type: Depth (incleanance) Type: Depth (incleanance) Surface Water Managery Sur	rology Indicators (min later (A1) er Table (A2) (A3) rks (B1) Deposits (B2) sits (B3) or Crust (B4 sits (B5)	imum of) 2)		Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 Applicant/Owner: Clancy & Theys A-2W State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Shoreline Soil Map Unit Name: Saprists and Aquents, ponded **Cover Type:** OW, Shrub Fring Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes 💿 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Yes Is the Sampled Area **Hydrophytic Vegetation Present?** No O within a Wetland? Yes No No O Yes **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes 💿 No O Wetland Hydrology Present? Remarks: A-12, Photo 4 **VEGETATION -** Use scientific names of plants. **Dominant** Species? Rel.Strat. Indicator **Absolute Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius **Status** % Cover Cover Number of Dominant Species 30 **✓** 75.0% FAC 1. Acer rubrum That are OBL, FACW, or FAC: (A) 2. Ulmus americana 10 **✓** 25.0% **FACW Total Number of Dominant** 0 0.0% 6 Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 100.0% (A/B) That Are OBL, FACW, or FAC: 40 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Cephalanthus occidentalis 60 **✓** 63.2% OBL Total % Cover of: Multiply by: 2. Alnus incana 5.3% 5 FACW OBL species x 1 =3. Viburnum dentatum **✓** 31.6% FAC 30 74 FACW species x 2 =0 0.0% 180 FAC species x 3 = 0 0.0% 0 FACU species 95 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius UPL species 27.0% 1. Iris versicolor 10 OBL 172 329 (B) Column Totals: 2. Lythrum salicaria 40.5% FACW 15 1.913 Prevalence Index = B/A =3. Carex stricta 5 13.5% OBL **Hydrophytic Vegetation Indicators:** 4. Onoclea sensibilis 7 18.9% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ✓ Dominance Test is > 50% 6. 0 0.0% 7. ✓ Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 37 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0 0.0%

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

0

0.0%

= Total Cover

No O

Hydrophytic

Vegetation

Present?

Yes 💿

Soil Sampling Point: A-2W

(inches)								_
	Color (r		<u></u>	Color (moist)	%	Type ¹	Loc ²	Texture Remarks
0-6	10YR	2/1						Loam
6-18+	10YR	5/1	95%	10YR 6/6	5%	RM	М	Clay Loam
ype: C=Con	centration. D	=Depletion	. RM=Reduc	ed Matrix, CS=Cov	ered or Coated	d Sand Grai	ns ² Loc	ation: PL=Pore Lining. M=Matrix
ydric Soil I	indicators:							Indicators for Problematic Hydric Soils ³ :
Histosol (A1)				atrix (S6) (Dro	•	-	2 cm Muck (A10) (LRR K, L, S)
Histic Epip	pedon (A2)				ce (S7) (MLRA		-	Coast Prairie Redox (A16) (LRR K, L, R)
Black Hist	cic (A3) (exce	pt in MLRA	143)		Below Surface (, S)	5 cm Mucky Peat or Peat (S3)
Hydrogen	Sulfide (A4)				Surface (S9) (L			Dark Surface (S7) (LRR K, L)
Stratified	Layers (A5)				cky Mineral (F1	-		Polyvalue Below Surface (S8) (LRR K, L)
✓ Depleted	Below Dark S	Surface (A1	1)		yed Matrix (F2))		☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dar	k Surface (A1	12)		✓ Depleted M	` '			☐ Iron-Manganese Masses (F12)
¬ '	ıck Mineral (S	•			c Surface (F6)			Piedmont Floodplain Soils (F19)
_	eyed Matrix (S	54)			ark Surface (F	7)		Red Parent Material (TF2)
☐ Sandy Re	` ,				ressions (F8)			Other (Explain in Remarks)
Indicators of	f hydrophytic	vegetation	and wetland	d hydrology must l	oe present unle	ess disturbe	d or probl	lematic.
Type:								
Depth (incl	hes):							Hydric Soil Present? Yes No
temarks:								
ydrology								
etland Hvd	y							
Cuana nyu	rology Indi	cators:						Secondary Indicators (minimum of two required)
-	rology Indi		one is requi	red; check all th	at apply)			Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 Applicant/Owner: Clancy & Theys **B-1U** State: NY Sampling Point: Landform (hillslope, terrace, etc.): Toeslope Investigator(s): BPC, BSW, AJR Soil Map Unit Name: Hoosic gravelly sandy loam, 3 to 8 percent slopes Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Is the Sampled Area **Hydrophytic Vegetation Present?** Yes O No 💿 Yes O No • within a Wetland? Yes 🔾 No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Flag B-102, Photo 10. Wetland B is referred to has Stream 1. **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius **Status** % Cover Cover Number of Dominant Species 1. Prunus serotina 30 **✓** 27.3% FACU (A) That are OBL, FACW, or FAC: 2. Acer saccharum **✓** 50.0% 55 **FACU Total Number of Dominant** 3. Quercus alba 25 **✓** 22.7% 6 Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 0.0% (A/B) That Are OBL, FACW, or FAC: 110 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Acer saccharum ✓ 100.0% FACU Total % Cover of: 20 Multiply by: 2. 0.0% 0 OBL species x 1 =3. 0 0.0% 0 FACW species x 2 =4. 0 0.0% 0 0 FAC species 0 0.0% 640 FACU species 20 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Lonicera tatarica 10 **✓** 33.3% FACU 160 640 (B) Column Totals: 2. Alliaria petiolata 20 66.7% FACU 4.000 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 30 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic.

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

0

0

0.0%

0.0%

= Total Cover

Hydrophytic

Yes 🔘

Vegetation

Present?

No 💿

1.

Depth	M	latrix		Red	ox Featu	res			
(inches)	Color (me	oist)	%	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-8	7.5YR	2.5/1	100%					Silt Loam	
8-18+	10YR	4/4	100%		-	-		Clay Loam	
				-	-				
				-					
¹ Type: C=Cond	centration. D=I	Depletion	. RM=Reduce	d Matrix, CS=Covere	d or Coate	ed Sand Gr	ains ² Loca	ation: PL=Pore Lining. M=M	atrix
Hydric Soil I	ndicators:							Indicators for Proble	matic Hydric Soils ³ :
Histosol (A	A1)			Stripped Matri	. , .	•	•	2 cm Muck (A10) (I	RR K, L, S)
Histic Epip	oedon (A2)			Dark Surface (S7) (MLRA	149B of L	RR S)	Coast Prairie Redox	(A16) (LRR K, L, R)
☐ Black Hist	ic (A3) (except	in MLRA	143)	Polyvalue Belo		. , .	R, S)	5 cm Mucky Peat o	Peat (S3)
Hydrogen	Sulfide (A4)			Thin Dark Surf	ace (S9) (LRR R, S)		Dark Surface (S7) (
Stratified	Layers (A5)			Loamy Mucky	Mineral (F	1)			rface (S8) (LRR K, L)
Depleted I	Below Dark Su	face (A1	1)	Loamy Gleyed	Matrix (F2	2)		Thin Dark Surface (
	k Surface (A12	•		Depleted Matr	x (F3)			☐ Iron-Manganese Ma	
	ck Mineral (S1)			Redox Dark Su	ırface (F6))		Piedmont Floodplai	` ,
	yed Matrix (S4			Depleted Dark	Surface (I	F7)		Red Parent Materia	
Sandy Red		,		Redox Depres	sions (F8)			Other (Explain in R	` '
	` ,	enetation	and wetland	hydrology must be p	resent un	lecc dicturk	ned or probl		zinarks)
Restrictive La			r and Wedana	mydrology mast be p	reserie un	icoo diocari	oca or probi	Cinade	
	ayer (ii obser	veu).							
Type:								Hydric Soil Present?	Yes ○ No ●
Depth (incl	nes):								
Remarks:									
Hydrology	<i>!</i>								
Wetland Hyd	rology Indica	tors:						Secondary Indicat	ors (minimum of two required)
Primary India	cators (minim	um of c	ne is require	ed: check all that a	(vlage			Surface Soil C	
Surface W				Water-Staine		(B9)		Drainage Patt	• •
	er Table (A2)			Aguatic Faur		(65)		Moss Trim Lir	` '
Saturation	` '			Marl Deposit	, ,				` '
	-			Hydrogen Su		· (C1)			/ater Table (C2)
Water Mai	. ,			_ ′ ′		` ,	D t. (C	Crayfish Burro	` '
	Deposits (B2)			Oxidized Rhi	-	-	ng Roots (C.		ible on Aerial Imagery (C9)
☐ Drift depo				Presence of		` '	(55)		ressed Plants (D1)
	or Crust (B4)			Recent Iron			oils (C6)	Geomorphic F	
☐ Iron Depo				☐ Thin Muck S	-	-		Shallow Aquit	ard (D3)
Inundation	n Visible on Ae	rial Imag	ery (B7)	U Other (Expla	in in Rema	arks)		Microtopograp	phic Relief (D4)
☐ Sparsely V	egetated Cond	ave Surf	ace (B8)					FAC-Neutral T	est (D5)
Field Observa	ations:		\sim				_		
Surface Water	Present?	Yes (O No ⊙	Depth (inc	nes):				
Water Table Pr	resent?	Yes (○ No ●	Depth (inc	nes):				
Saturation Pres							Wetla	and Hydrology Present?	Yes O No 💿
(includes capill		Yes (○ No ●	Depth (inc	nes):				
Describe Rec	orded Data (stream (gauge, moni	toring well, aerial	photos, p	revious i	nspections), if available:	
Remarks:									

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 Applicant/Owner: Clancy & Theys **B-1W** State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Shoreline Soil Map Unit Name: Pits, gravel Cover Type: Ditch/Stream Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes 💿 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Yes • No O Is the Sampled Area **Hydrophytic Vegetation Present?** within a Wetland? Yes No No O Yes **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes No O Wetland Hydrology Present? Flag B-102, Photo 9. Wetland B is referred to as Stream 1. **VEGETATION -** Use scientific names of plants. **Dominant** Species? Rel.Strat. Indicator **Absolute Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius **Status** % Cover Cover Number of Dominant Species 1. Acer rubrum 55 ✓ 73.3% FAC That are OBL, FACW, or FAC: (A) 2. Ulmus americana 20 **✓** 26.7% **FACW Total Number of Dominant** 0 0.0% 3 Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 66.7% (A/B) That Are OBL, FACW, or FAC: 75 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. 0.0% Total % Cover of: Multiply by: 2. 0 0.0% OBL species x 1 =3. 0 0.0% 40 FACW species x 2 =4. 0 0.0% 165 FAC species 0 0.0% 68 FACU species 0 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius UPL species 1. Tussilago farfara 15 ✓ 88.2% FACU 92 273 (B) Column Totals: 2. Berberis sp. 2 11.8% FACU 2.967 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ✓ Dominance Test is > 50% 6. 0.0% 0 7. ✓ Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 17 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0 0.0%

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

0

0.0%

= Total Cover

No O

Hydrophytic

Yes 💿

Vegetation

Soil Sampling Point: B-1W

(inches) Color (moist) % Color (moist) % Type 1 Loc2 Texture Remarks 0-5 10YR 3/2 100% Silt Loam Simal 1 Rocks 5-18+ 7.5YR 5/1 98 5YR 3/4 2 D PL Silt Loam Simal 1 Rocks Flype: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains 2 Location: PL=Pore Lining. M=Matrix Flydric Soil Indicators: Histosol (A1) Stripped Matrix (S6) (Drop in LRR R?) Histosol (A1) Dark Surface (S7) (MLRA 149B of LRR S) Black Histic (A3) (except in MLRA 143) Polyvalue Below Surface (S8) (LRR R, S) Black Histic (A3) (except in MLRA 143) Polyvalue Below Surface (S8) (LRR R, S) Stratified Layers (A5) Loamy Mucky Mineral (F1) Polyvalue Below Surface (S7) (LRR K, L) Stratified Layers (A5) Loamy Mucky Mineral (F2) Polyvalue Below Surface (S8) (LRR R, S) Sandy Muck Mineral (S1) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) Sandy Gleyed Matrix (S4) Depleted Matrix (S4) Depleted Dark Surface (F7) Red Parent Material (TF2) Sandy Redox (S5) Redox Depressions (F8) Other (Explain in Remarks) Indicators of Problematic Hydric Soils Indicators of Problematic Hydric Soils Indicators of Problematic Hydric Soils Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) Sandy Redox (S5) Redox Dark Surface (F7) Red Parent Material (TF2) Sandy Redox (S5) Redox Depressions (F8) Other (Explain in Remarks) Indicators of Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric Soil Present? Yes No Coast Prairie Redox Problematic Hydric Soils Hydric S	
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Surface Water (A1) Water-Stained Leaves (B9) Value of Drainage Patterns (B10)	
High Water Table (A2) Aquatic Fauna (B13) Moss Trim Lines (B16)	
Saturation (A3) Marl Deposits (B15) Dry Season Water Table (C2)	
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)	
Sediment Deposits (B2) Oxidized Rhizospheres along Living Roots (C3) Saturation Visible on Aerial Image	ν (C9)
Drift deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)	y (C3)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)	
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7) ☐ Other (Explain in Remarks) ☐ Microtopographic Relief (D4)	
☐ Sparsely Vegetated Concave Surface (B8) ☐ FAC-Neutral Test (D5)	
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 **D-1U Applicant/Owner:** Clancy & Theys State: NY Sampling Point: Landform (hillslope, terrace, etc.): Toeslope Investigator(s): BPC, BSW, AJR Soil Map Unit Name: Castile gravelly silt loam, 0 to 5 percent slopes Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes , Soil , or Hydrology significantly disturbed? Are Vegetation Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Yes 🔾 Is the Sampled Area **Hydrophytic Vegetation Present?** No 💿 Yes O No • within a Wetland? Yes 🔾 No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Remarks: Flag D-3, Photo 21 **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Status Number of Dominant Species 15 15.0% FAC 1. Acer rubrum (A) That are OBL, FACW, or FAC: \checkmark 40.0% 2. Quercus rubra 40 **FACU Total Number of Dominant** 3. Prunus serotina ✓ 20.0% FACU 20 5 Species Across All Strata: (B) 4. Quercus velutina 20 20.0% UPL Percent of dominant Species 5. Pinus strobus 5 5.0% FACU 0.0% (A/B) That Are OBL, FACW, or FAC: 100 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. 0.0% Total % Cover of: 0 Multiply by: 2. 0 0.0% OBL species x 1 =3. 0 0.0% 0 FACW species x 2 =4. 0 0.0% 15 45 FAC species 0 0.0% 400 FACU species 0 = Total Cover 20 100 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Polystichum acrostichoides 20 **✓** 57.1% FACU 135 545 (B) Column Totals: 2. Dryopteris intermedia 15 42.9% FACU 4.037 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 35 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic.

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

0

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0.0%

0.0%

= Total Cover

Hydrophytic

Yes O

Vegetation

Present?

No 💿

1.

(inches)	Color (r				oc ² Texture Remarks
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-20+	10YR	4/4			Silt Loam
rpe: C=Conce	entration. D	=Depletion. F	M=Reduce	d Matrix, CS=Covered or Coated Sand Grains	² Location: PL=Pore Lining. M=Matrix
dric Soil In	ndicators:			_	Indicators for Problematic Hydric Soils ³ :
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] Black Histic	c (A3) (exce	pt in MLRA 1	1 3)	Polyvalue Below Surface (S8) (LRR R, S)	5 cm Mucky Peat or Peat (S3)
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Stratified L	ayers (A5)			Loamy Mucky Mineral (F1)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted B	Below Dark S	Surface (A11)		Loamy Gleyed Matrix (F2)	☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dark	Surface (A1	.2)		Depleted Matrix (F3)	☐ Iron-Manganese Masses (F12)
Sandy Muc	ck Mineral (S	1)		Redox Dark Surface (F6)	Piedmont Floodplain Soils (F19)
Sandy Gley	yed Matrix (S	64)		Depleted Dark Surface (F7)	Red Parent Material (TF2)
Sandy Red	. ,			Redox Depressions (F8)	Other (Explain in Remarks)
Indicators of	hydrophytic	vegetation a	nd wetland	hydrology must be present unless disturbed or	problematic.
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 Applicant/Owner: Clancy & Theys State: NY **D-1W** Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Toeslope Soil Map Unit Name: Castile gravelly silt loam, 0 to 5 percent slopes Cover Type: Vernal Pool Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes 💿 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Yes Is the Sampled Area **Hydrophytic Vegetation Present?** No O within a Wetland? Yes No No O Yes **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes 💿 No O Wetland Hydrology Present? Remarks: Flag D-3, Photo 20 **VEGETATION -** Use scientific names of plants. **Dominant** Species? Rel.Strat. Indicator Absolute **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 1.__ 0 0.0% That are OBL, FACW, or FAC: (A) 0 2. 0.0% **Total Number of Dominant** 0.0% 3 Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 100.0% (A/B) That Are OBL, FACW, or FAC: 0 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Cornus amomum **✓** 100.0% FACW Total % Cover of: Multiply by: 10 2. 0.0% OBL species 0 x 1 =3. 0 0.0% 24 FACW species x 2 =4. 0 0.0% 0 x 3 = FAC species 0 0.0% 0 FACU species 10 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius UPL species 50.0% 1. Carex sp. **FACW** 14 26 (B) Column Totals: 2. Symplocarpus foetidus 50.0% OBL 2 1.857 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ✓ Dominance Test is > 50% 6. 0 0.0% 7. ✓ Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius) be present, unless disturbed or problematic.

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

0

0

0.0%

0.0%

= Total Cover

Hydrophytic

Vegetation

Present?

Yes 💿

No O

1.

Soil Sampling Point: D-1W

Depth _									
(inches)	Color (r		<u>%</u>	Color	(moist)		Type ¹	Loc ²	Texture Remarks
0-3	10YR	4/1	100%						Loam
-18+	10YR	4/1	95%	7.5YR	_ 5/8	5%	RM	<u>M</u>	Silt Loam
	 -								·
pe: C=Conce		=Depletion	. RM=Redu	ced Matrix	, CS=Cover	ed or Coate	ed Sand G	rains ² Loc	ation: PL=Pore Lining. M=Matrix
/dric Soil In Histosol (A				St	ripped Matr	ix (S6) (Dr	op in LRR	R?)	Indicators for Problematic Hydric Soils ³ :
Histic Epipe	•				ark Surface	. , .	•	•	☐ 2 cm Muck (A10) (LRR K, L, S) ☐ Coast Prairie Redox (A16) (LRR K, L, R)
	(A3) (exce	nt in MI RA	143)		lyvalue Bel	. , .		•	5 cm Mucky Peat or Peat (S3)
_	Sulfide (A4)	pt <u>.</u>	1.5)		in Dark Sur				Dark Surface (S7) (LRR K, L)
Stratified L	. ,				amy Mucky	Mineral (F	·1)		Polyvalue Below Surface (S8) (LRR K, L)
_	elow Dark S	Surface (A1	1)		amy Gleyed	Matrix (F	2)		☐ Thin Dark Surface (S9) (LRR K, L)
¬ ·	Surface (A1	•	,	✓ De	epleted Mat	rix (F3)			☐ Iron-Manganese Masses (F12)
Sandy Muc	k Mineral (S	1)		☐ Re	edox Dark S	urface (F6))		Piedmont Floodplain Soils (F19)
Sandy Gley	ed Matrix (S	54)		□ De	epleted Darl	Surface (F7)		Red Parent Material (TF2)
Sandy Red		•		☐ Re	edox Depres	sions (F8)			Other (Explain in Remarks)
Indicators of	hydrophytic	vegetation	and wetlar	nd hydrolog	gy must be	present un	less distur	bed or probl	
strictive La									
	, ,								
Type:									Hydric Soil Present? Yes No
Type: Depth (inch									Hydric Soil Present? Yes No
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WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 E-1U Applicant/Owner: Clancy & Theys State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Hillside Soil Map Unit Name: Hoosic gravelly sandy loam, steep Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes , Soil , or Hydrology significantly disturbed? Are Vegetation Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Yes 🔾 Is the Sampled Area **Hydrophytic Vegetation Present?** No 💿 Yes O No • within a Wetland? Yes O No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Remarks: Flag E-9, Photo 23 **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius **Status** % Cover Cover Number of Dominant Species 1. Quercus rubra 20 16.7% FACU (A) That are OBL, FACW, or FAC: 8.3% 2. Pinus strobus 10 **FACU Total Number of Dominant** 3. Acer rubrum 60 ✓ 50.0% FAC 6 Species Across All Strata: (B) 4. Betula lenta 30 25.0% FACU Percent of dominant Species 0 0.0% 16.7% (A/B) That Are OBL, FACW, or FAC: 120 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Carya ovata **✓** 50.0% FACU Total % Cover of: 30 Multiply by: 2. Fraxinus americana 33.3% FACU 20 OBL species x 1 =3. Prunus virginiana 16.7% FACU 10 0 FACW species x 2 =4. 0 0.0% 180 FAC species x 3 = 5. 0 0.0% 508 FACU species 60 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Polystichum acrostichoides 71.4% FACU 187 688 (B) Column Totals: 2. Pinus strobus 2 28.6% FACU 3.679 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0 0.0%

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

0

0.0%

= Total Cover

No 💿

Hydrophytic

Yes 🔾

Vegetation

Soil Sampling Point: E-1U

(inches)					
	Color (<u>%</u> -	Color (moist) % Type 1 Loc2	Texture Remarks
0-3	10YR	2/2	100%		Loam
-20+	10YR	3/4	100%		Silt Loam
		-			
					-
pe: C=Conce	entration. D	=Depletio	n. RM=Reduc	red Matrix, CS=Covered or Coated Sand Grains ² Loc	ration: PL=Pore Lining. M=Matrix
dric Soil In	dicators:				Indicators for Problematic Hydric Soils ³ :
Histosol (A	1)			Stripped Matrix (S6) (Drop in LRR R?)	2 cm Muck (A10) (LRR K, L, S)
Histic Epipe	edon (A2)			☐ Dark Surface (S7) (MLRA 149B of LRR S)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic	c (A3) (exce	pt in MLRA	A 143)	Polyvalue Below Surface (S8) (LRR R, S)	5 cm Mucky Peat or Peat (S3)
Hydrogen S	Sulfide (A4)			☐ Thin Dark Surface (S9) (LRR R, S)	☐ Dark Surface (S7) (LRR K, L)
Stratified La	ayers (A5)			Loamy Mucky Mineral (F1)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted Be	elow Dark S	Surface (A	l1)	Loamy Gleyed Matrix (F2)	☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dark	Surface (A:	12)		Depleted Matrix (F3)	☐ Iron-Manganese Masses (F12)
Sandy Mucl	k Mineral (S	51)		Redox Dark Surface (F6)	Piedmont Floodplain Soils (F19)
Sandy Gley	ed Matrix (54)		Depleted Dark Surface (F7)	Red Parent Material (TF2)
Sandy Redo	-	•		Redox Depressions (F8)	Other (Explain in Remarks)
ndicators of	hvdronhvtic	vegetatio	n and wetlan	d hydrology must be present unless disturbed or prob	
Type: Depth (incheemarks:					Hydric Soil Present? Yes ○ No ●
Type: Depth (inche					Hydric Soil Present? Yes ○ No ●
Type: Depth (incheemarks:	es):				Hydric Soil Present? Yes No •
Type: Depth (incher emarks:	es):				Hydric Soil Present? Yes No Secondary Indicators (minimum of two required)
Type: Depth (incher marks: drology	es): ology Indi	cators:	one is requi	ired; check all that apply)	
Type: Depth (incher marks: drology	es): ology Indi ators (min	cators:	one is requi	ired; check all that apply)	Secondary Indicators (minimum of two required)
Type: Depth (inchese marks: drology etland Hydromary Indica	ology Indi ators (min	cators:	one is requi		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Type: Depth (inchestants: drology etland Hydromary Indicas Surface Wa	es): ology Indi ators (min ater (A1) r Table (A2)	cators:	one is requi	Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
Type: Depth (inche emarks: rdrology etland Hydre imary Indica Surface Wa High Water	es): ology Indi ators (min ater (A1) r Table (A2) (A3)	cators:	one is requi	☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Type: Depth (inchesemarks: rdrology etland Hydro imary Indica Surface Wa High Water Saturation	es): ology Indi ators (min ater (A1) r Table (A2) (A3) ks (B1)	cators: imum of	one is requi	☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8)
Type: Depth (inchesemarks: rdrology etland Hydro imary Indica Surface Wa High Water Saturation of Water Mark	ology Indiators (minater (A1) r Table (A2) (A3) ks (B1) Deposits (B2	cators: imum of	one is requi	Water-Stained Leaves (B9)☐ Aquatic Fauna (B13)☐ Marl Deposits (B15)☐ Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Type: Depth (inche emarks: Tdrology etland Hydro imary Indica Surface Wa High Water Saturation (Water Mark Sediment D	es): cology Indicators (minater (A1) r Table (A2) (A3) ks (B1) Deposits (B2 sits (B3)	cators: imum of	one is requi	 Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C 	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Depth (inche emarks: Tdrology Tdrology Telland Hydro Timary Indica Surface Wa High Water Saturation (Water Mark Sediment D Drift deposit	ology Indiators (minater (A1) r Table (A2) (A3) ks (B1) Deposits (B2) sits (B3) or Crust (B4)	cators: imum of	one is requi	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
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Type: Depth (inchest and inchest and inche	es): cology Indi ators (min ater (A1) r Table (A2) (A3) ks (B1) Deposits (B2 its (B3) or Crust (B4 its (B5) Visible on A egetated Co	cators: imum of 2) Aerial Imag ncave Sur	gery (B7) face (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
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Type: Depth (inchese marks: drology etland Hydro imary Indica Surface Wa High Water Saturation Water Mark Sediment D Drift deposi Algal Mat o Iron Depos Inundation Sparsely Verent Sparsely Verent Common Sparsely eld Observate rface Water Present Couldes Capilla	es): ology Indi ators (min ater (A1) r Table (A2) (A3) ks (B1) Deposits (B3) or Crust (B4) sits (B5) Visible on A egetated Co tions: Present? ent? ent? enty fringe)	cators: imum of Aerial Imag ncave Sur Yes Yes Yes	gery (B7) face (B8) No • No • No •	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) and Hydrology Present? Yes No
Type: Depth (inchesemarks: /drology etland Hydro imary Indicas Surface Was High Water Saturation (Water Mark Sediment D Drift deposi Algal Mat o Iron Deposi Inundation Sparsely Ves eld Observat urface Water Pater Table Prestruation Preseculudes capilla	es): ology Indi ators (min ater (A1) r Table (A2) (A3) ks (B1) Deposits (B3) or Crust (B4) sits (B5) Visible on A egetated Co tions: Present? ent? ent? enty fringe)	cators: imum of Aerial Imag ncave Sur Yes Yes Yes	gery (B7) face (B8) No • No • No •	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) and Hydrology Present? Yes No
Type: Depth (inchesemarks: /drology etland Hydro imary Indicas Surface Was High Water Saturation Water Mark Sediment D Drift deposi Algal Mat o Iron Deposi Inundation Sparsely Vester Pater Table Presence Vater Va	es): ology Indi ators (min ater (A1) r Table (A2) (A3) ks (B1) Deposits (B3) or Crust (B4) sits (B5) Visible on A egetated Co tions: Present? ent? ent? enty fringe)	cators: imum of Aerial Imag ncave Sur Yes Yes Yes	gery (B7) face (B8) No • No • No •	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) and Hydrology Present? Yes No

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 15-Nov-11 Applicant/Owner: Clancy & Theys E-1W State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Toeslope Soil Map Unit Name: Hoosic gravelly sandy loam, steep Cover Type: Vernal Pool Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes 💿 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc. Yes Is the Sampled Area **Hydrophytic Vegetation Present?** No O within a Wetland? Yes No No O Yes **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes 💿 No O Wetland Hydrology Present? Remarks: Flag E-9, Photo 22 **VEGETATION -** Use scientific names of plants. **Dominant** Species? Rel.Strat. Indicator Absolute **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 1.__ 0 0.0% That are OBL, FACW, or FAC: (A) 0 2. 0.0% **Total Number of Dominant** 0.0% Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 100.0% (A/B) That Are OBL, FACW, or FAC: 0 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. 0.0% Total % Cover of: Multiply by: 2. OBL species 0 0.0% x 1 =3. 0 0.0% FACW species x 2 =4. 0 0.0% 0 FAC species 0 0.0% 0 FACU species 0 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius UPL species 1. Osmunda regalis **✓** 62.5% OBL 11 (B) Column Totals: 2. Carex sp. 3 37.5% FACW 1.375 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ✓ Dominance Test is > 50% 6. 0 0.0% 7. ✓ Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 8 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius) be present, unless disturbed or problematic.

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

0

0

0.0%

0.0%

= Total Cover

Hydrophytic

Vegetation

Present?

Yes 💿

No O

1.

Soil									Sampling Poir	nt: E-1W
Profile Descripti	ion: (Describ	e to the	depth nee				nfirm the	absence of indicators.)	
Depth		trix			dox Featu					
(inches)	Color (mois		<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remar	KS
0-3			00%					Loam		
3-20+	10YR	1/1 1	00%		_			Clay Loam		
								-		
					_					
	0									
										
Type: C=Concent	tration. D=De	pletion. R	M=Reduced	d Matrix, CS=Cove	ed or Coate	ed Sand Gra	ains ² Loc	ation: PL=Pore Lining. M	=Matrix	
Hydric Soil Indi	icators:	·						Indicators for Pro	olematic Hydric	Soils ³ :
Histosol (A1)				Stripped Mat	rix (S6) (Dr	op in LRR R	.?)	2 cm Muck (A10	•	
Histic Epipedo	on (A2)			☐ Dark Surface	(S7) (MLR/	4 149B of LI	RR S)	_ `	dox (A16) (LRR K,	L, R)
Black Histic (A	A3) (except in	MLRA 14	1 3)	Polyvalue Be	low Surface	(S8) (LRR	R, S)	5 cm Mucky Pea	. ,	, ,
Hydrogen Sul	lfide (A4)			Thin Dark Su	rface (S9) ((LRR R, S)		Dark Surface (S	• ,	
Stratified Lay	ers (A5)			Loamy Mucky	/ Mineral (F	1)			Surface (S8) (LRI	R K, L)
Depleted Belo	ow Dark Surfa	ce (A11)		Loamy Gleye	d Matrix (F	2)			ce (S9) (LRR K, L)	
Thick Dark Su	urface (A12)			✓ Depleted Mat	rix (F3)			Iron-Manganese	. , . , ,	
Sandy Muck N	Mineral (S1)			Redox Dark S	Surface (F6))		☐ Piedmont Flood	,	
Sandy Gleyed	d Matrix (S4)			Depleted Dar	k Surface (F7)		Red Parent Mate	, ,	
Sandy Redox				Redox Depre	ssions (F8)			Other (Explain i	` ,	
Indicators of hy	drophytic veg	etation a	nd wetland	hydrology must be	present un	less disturb	ed or probl		,	
Restrictive Laye										
Type:										
Depth (inches)):							Hydric Soil Present?	Yes 💿	No O
Remarks:										
luduala au										
lydrology										
Wetland Hydrol	ogy Indicato	ors:						Secondary Ind	cators (minimum	of two required)
Primary Indicato	ors (minimu	m of one	e is require	ed; check all that	apply)			Surface So	il Cracks (B6)	
✓ Surface Wate	er (A1)			✓ Water-Stair	ned Leaves	(B9)		☐ Drainage F	atterns (B10)	
High Water T	able (A2)			Aquatic Fau	ına (B13)			☐ Moss Trim	Lines (B16)	
Saturation (A	3)			Marl Depos	its (B15)			☐ Dry Seaso	n Water Table (C2)
Water Marks	(B1)			Hydrogen S	Sulfide Odo	r (C1)		Crayfish B	urrows (C8)	
Sediment Dep	posits (B2)			Oxidized R	nizospheres	along Livin	g Roots (C	3) Saturation	Visible on Aerial I	magery (C9)
Drift deposits	s (B3)			Presence o	f Reduced 1	Iron (C4)		Stunted or	Stressed Plants (D1)
Algal Mat or (Crust (B4)			Recent Iron	n Reduction	in Tilled So	oils (C6)	Geomorph	ic Position (D2)	
Iron Deposits	s (B5)			☐ Thin Muck	Surface (C7	')		Shallow Ad	juitard (D3)	
Inundation Vi	isible on Aeria	ıl Imagery	/ (B7)	Other (Exp	lain in Rem	arks)		Microtopo	graphic Relief (D4))
Sparsely Vege	etated Concav	e Surface	e (B8)					FAC-Neutr	al Test (D5)	
Field Observatio		Yes •	No O	Depth (in	ches).	5	7			
Surface Water Pre		Yes •			, _	J	_]			
Water Table Present				Depth (in	cnes):		Wetla	and Hydrology Present	? Yes ●	No \bigcirc
Saturation Present (includes capillary		Yes •	No O	Depth (in	ches):			,		
		ream ga	uge, monit	toring well, aeria	l photos, p	orevious in	spections), if available:		
temarks:										

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 16-Nov-11 F-1Ua **Applicant/Owner:** Clancy & Theys State: NY Sampling Point: Landform (hillslope, terrace, etc.): Toeslope Investigator(s): BPC, BSW, AJR Soil Map Unit Name: Castile gravelly silt loam, 0 to 5 percent slopes Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Yes No O Is the Sampled Area **Hydrophytic Vegetation Present?** Yes O No • within a Wetland? Yes 🔾 No 💿 **Hvdric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Flag F-10, Photo 27. Pinus strobus also in herbaceous layer. **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 1. Fraxinus pennsylvanica 30 ✓ 28.0% **FACW** 3 (A) That are OBL, FACW, or FAC: **✓** 46.7% 2. Acer rubrum 50 FAC **Total Number of Dominant** 3. Populus tremuloides 20 18.7% FACU 5 Species Across All Strata: (B) 4. Quercus rubra 7 6.5% **FACU** Percent of dominant Species 5. 0 0.0% 60.0% (A/B) That Are OBL, FACW, or FAC: 107 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Ulmus americana 5 18.5% FACW Total % Cover of: Multiply by: 2. Prunus serotina 2 7.4% **FACU** OBL species x 1 =3. Lonicera tatarica 15 55.6% FACU 70 FACW species x 2 =4. Ostrya virginiana 5 18.5% FACU 55 165 FAC species x 3 = 0 0.0% 304 FACU species 27 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Alliaria petiolata 5 18.5% FACU 166 539 (B) Column Totals: 2. Dryopteris intermedia 20 74.1% **FACU** 3.247 Prevalence Index = B/A =3. Solidago altissima 7.4% **Hydrophytic Vegetation Indicators:** 4. 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ✓ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 27 = Total Cover $\frac{1}{2}$ Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 5' Radius be present, unless disturbed or problematic.

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

0

☐ 100.0% FAC

0.0%

= Total Cover

Hydrophytic

Yes 💿

Vegetation

Present?

No O

1. Vitis sp.

Soil Sampling Point: F-1Ua

rofile Description: (Describe to the depth	needed to document the indicator	or confirm the absence of indicate	ors 1

Depth		Matrix		Re	dox Features			
(inches)	Color (noist)	<u></u> %	Color (moist)	% Тур	oe ¹ Loc²	Texture	Remarks
0-7	10YR	4/3	100%				Clay Loam	
7-18+	10YR	6/6	100%				Silt Loam	
1								
• • • • • • • • • • • • • • • • • • • •		=Depletic	n. RM=Reduc	ced Matrix, CS=Cover	ed or Coated San	nd Grains ² Loc	ation: PL=Pore Lining. M=N	latrix
Hydric Soil I	ndicators:						Indicators for Proble	matic Hydric Soils ³ :
☐ Histosol (A1)			Stripped Matr	ix (S6) (Drop in I	LRR R?)	2 cm Muck (A10) (LRR K, L, S)
Histic Epi	pedon (A2)			Dark Surface	(S7) (MLRA 149E	3 of LRR S)	Coast Prairie Redo	x (A16) (LRR K, L, R)
☐ Black Hist	ic (A3) (exce	pt in MLR	A 143)	Polyvalue Bel	ow Surface (S8)	(LRR R, S)	5 cm Mucky Peat of	
Hydrogen	Sulfide (A4)			Thin Dark Sur	face (S9) (LRR R	l, S)	Dark Surface (S7)	` '
	Layers (A5)			Loamy Mucky	Mineral (F1)			urface (S8) (LRR K, L)
	Below Dark S	Surface (A	.11)	Loamy Gleyed	` '			
		-	111	Depleted Mat	. ,		Thin Dark Surface	
	k Surface (A:	•		Redox Dark S			☐ Iron-Manganese M	` ,
	ck Mineral (S	•			. ,		Piedmont Floodpla	in Soils (F19)
☐ Sandy Gle	eyed Matrix (54)		Depleted Dark			Red Parent Materia	al (TF2)
Sandy Re				Redox Depres	, ,		Other (Explain in F	lemarks)
³ Indicators o	f hydrophytic	vegetatio	on and wetlan	d hydrology must be	present unless d	isturbed or probl	ematic.	
Restrictive L	ayer (if obs	erved):						
Type:								
Depth (inc	hes).						Hydric Soil Present?	Yes O No 💿
	1100).							
Remarks:								
Hydrology	/							
Watland Use	valaev Tudi						Constitution Indian	() () () () () () () () () ()
Wetland Hyd								tors (minimum of two required)
Primary Indi	<u>cators (min</u>	<u>imum of</u>	one is requ	red; check all that	apply)		Surface Soil (Cracks (B6)
☐ Surface W	/ater (A1)			_ Water-Stain	ed Leaves (B9)		Drainage Pat	terns (B10)
High Wate	er Table (A2)			Aquatic Fau	na (B13)		Moss Trim Li	nes (B16)
Saturation	n (A3)			Marl Deposi	ts (B15)		Dry Season V	Vater Table (C2)
☐ Water Ma					ulfide Odor (C1)		Crayfish Burr	• •
=	Deposits (B2	1)			izospheres along	Lliving Poots (C	_ `	` '
		.,						sible on Aerial Imagery (C9)
☐ Drift depo					Reduced Iron (C	•		ressed Plants (D1)
	or Crust (B4)			Reduction in Till	iea Soils (C6)	Geomorphic	
☐ Iron Depo	sits (B5)			Thin Muck S	Surface (C7)		Shallow Aqui	tard (D3)
Inundatio	n Visible on A	Aerial Ima	igery (B7)	Uther (Expl	ain in Remarks)		Microtopogra	phic Relief (D4)
☐ Sparsely \	egetated Co	ncave Su	rface (B8)				FAC-Neutral	Test (D5)
Field Observ	ations							
		Yes	O No	Depth (inc	chec).			
Surface Water	rresent?		_		.1105).			
Water Table P	resent?	Yes	O No (Depth (inc	ches):			0 0
Saturation Pre	sent?	Yes	O No @	Depth (inc	chec):	Wetl	and Hydrology Present?	Yes ○ No •
(includes capil					,			
Describe Rec	orded Data	(stream	gauge, mo	nitoring well, aerial	photos, previo	ous inspections), if available:	
Remarks:								

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer Project/Site: BGA-3713 Sampling Date: 16-Nov-11 F-1Ub **Applicant/Owner:** Clancy & Theys State: NY Sampling Point: Landform (hillslope, terrace, etc.): Toeslope Investigator(s): BPC, BSW, AJR Soil Map Unit Name: Castile gravelly silt loam, 0 to 5 percent slopes Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes , Soil , or Hydrology significantly disturbed? Are Vegetation Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Yes 🔾 Is the Sampled Area **Hydrophytic Vegetation Present?** No 💿 Yes O No • within a Wetland? Yes O No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Remarks: Flag F-4, Photo 28 **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 60 **✓** 66.7% FACU 1. Pinus strobus (A) That are OBL, FACW, or FAC: 2. Acer rubrum 11.1% 10 FAC **Total Number of Dominant** 3. Populus tremuloides 10 11.1% FACU Species Across All Strata: (B) 4. Pinus rigida 5 5.6% **FACU** Percent of dominant Species 5. Fraxinus americana 5 5.6% FACU 25.0% (A/B) That Are OBL, FACW, or FAC: 90 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Lonicera tatarica 7 ✓ 100.0% FACU Total % Cover of: Multiply by: 2. 0.0% 0 OBL species x 1 =3. 0 0.0% 4 FACW species x 2 =4. 0 0.0% 15 45 FAC species 5. 0 0.0% 476 FACU species 7 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Dryopteris intermedia 30 **✓** FACU 136 525 (B) Column Totals: 2. Vaccinium corymbosum 2 5.9% **FACW** 3.860 Prevalence Index = B/A =3. Alliaria petiolata 2 5.9% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 34 = Total Cover $^{ extstyle 1}$ Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic.

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

0

☐ 100.0% FAC

0.0%

= Total Cover

Hydrophytic

Yes O

Vegetation

Present?

No 💿

1. Toxicodendron radicans

Sampling Point: F-1Ub

2-18	Color (m		<u></u> %	Color (moist) % Type 1 Loc2	Texture Remarks
2-18					
		3/2			Loam
18+	10YR	4/3	100%		Silt Loam
	10YR	6/6			Silt Loam
					_
ype: C=Concent	tration. D=	Depletion	RM=Reduc	ed Matrix, CS=Covered or Coated Sand Grains ² Loc	cation: PL=Pore Lining. M=Matrix
ydric Soil Indi	icators:				Indicators for Problematic Hydric Soils ³ :
Histosol (A1))			Stripped Matrix (S6) (Drop in LRR R?)	2 cm Muck (A10) (LRR K, L, S)
Histic Epipedo	on (A2)			☐ Dark Surface (S7) (MLRA 149B of LRR S)	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A	(A3) (excep	t in MLRA	143)	Polyvalue Below Surface (S8) (LRR R, S)	5 cm Mucky Peat or Peat (S3)
Hydrogen Sulf	ılfide (A4)			Thin Dark Surface (S9) (LRR R, S)	Dark Surface (S7) (LRR K, L)
☐ Stratified Laye	ers (A5)			Loamy Mucky Mineral (F1)	Polyvalue Below Surface (S8) (LRR K, L)
Depleted Belo	ow Dark Su	ırface (A1	1)	Loamy Gleyed Matrix (F2)	☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dark Su	urface (A12	2)		Depleted Matrix (F3)	☐ Iron-Manganese Masses (F12)
Sandy Muck M	Mineral (S1	L)		Redox Dark Surface (F6)	Piedmont Floodplain Soils (F19)
Sandy Gleyed	d Matrix (S	4)		Depleted Dark Surface (F7)	Red Parent Material (TF2)
Sandy Redox	-	•		Redox Depressions (F8)	Other (Explain in Remarks)
Indicators of hy	vdrophytic y	vegetatio	and wetlan	d hydrology must be present unless disturbed or prob	
Type: Depth (inches)	s):				Hydric Soil Present? Yes ○ No ●
Type: Depth (inches)	;):				Hydric Soil Present? Yes ○ No •
Type: Depth (inches) emarks:	·):				Hydric Soil Present? Yes ○ No •
Type: Depth (inches) emarks:		ators:			Hydric Soil Present? Yes No Secondary Indicators (minimum of two required)
Type: Depth (inches) emarks: /drology etland Hydrology	ogy Indic		one is requi	red; check all that apply)	
Type: Depth (inches) emarks: /drology etland Hydrolo	logy Indic		one is requi	red; check all that apply)	Secondary Indicators (minimum of two required)
Type: Depth (inches) emarks: /drology etland Hydrologicimary Indicator	logy Indic ors (minir		one is requi		Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Type: Depth (inches) emarks: /drology etland Hydrolo imary Indicato Surface Water	logy Indic ors (minir er (A1) Table (A2)		one is requi	Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
Type: Depth (inches) emarks: ydrology etland Hydrolo rimary Indicato Surface Water High Water Ta	ogy Indicors (minimer (A1) Fable (A2)		one is requi	☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16)
Type: Depth (inches) emarks: ydrology etland Hydrologimary Indicato Surface Water High Water Ta Saturation (AS	ogy Indicors (mininer (A1) Fable (A2) A3) (B1)	mum of o	one is requi	☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8)
Type: Depth (inches) emarks: ydrology etland Hydrolo rimary Indicato Surface Water High Water Ta Saturation (AS Water Marks (logy Indicors (mininger (A1) Fable (A2) A3) (B1) posits (B2)	mum of o	one is requi	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ Marl Deposits (B15) □ Hydrogen Sulfide Odor (C1)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8)
Type: Depth (inches) emarks: ydrology retland Hydrolo rimary Indicato Surface Water High Water Ta Saturation (AS Water Marks (Sediment Dep	logy Indicors (minimer (A1) Fable (A2) Fable (B1) Fable (B2) Fable (B2) Fable (B3)	mum of o	one is requi	□ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ Marl Deposits (B15) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres along Living Roots (Control of the Control of the Cont	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)
Type: Depth (inches) emarks: ydrology etland Hydrology fill Surface Water High Water Ta Saturation (AS Water Marks (Sediment Dep Drift deposits	logy Indicors (minimer (A1) Fable (A2) A3) (B1) Eposits (B2) Es (B3) Crust (B4)	mum of o	one is requi	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C2) Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Type: Depth (inches) emarks: /drology etland Hydrologimary Indicated Surface Water High Water Tall Saturation (AS) Water Marks (Sediment Dep Drift deposits Algal Mat or C	ogy Indic ors (minir er (A1) Table (A2) A3) (B1) eposits (B2) s (B3) Crust (B4) s (B5)	mum of c		Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C1) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3)
Type: Depth (inches) emarks: /drology etland Hydrolo imary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Algal Mat or C Iron Deposits	ogy Indic ors (minir er (A1) Table (A2) A3) (B1) eposits (B2) s (B3) Crust (B4) s (B5)	num of c	ery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Compresence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Type: Depth (inches) emarks: /drology etland Hydrologimary Indicator Surface Water High Water Tall Saturation (All Water Marks (III) Drift deposits Algal Mat or CIII Iron Deposits Inundation Vision Sparsely Vege	logy Indicors (mininger (A1) Table (A2) A3) (B1) Eposits (B2) Es (B3) Crust (B4) Es (B5) Tisible on Angeletated Conference	num of c	ery (B7) ace (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Compresence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Type: Depth (inches) emarks: /drology etland Hydrologimary Indicator Surface Water High Water Taran Saturation (ASS) Water Marks (Sediment Deportif deposits Algal Mat or Color Iron Deposits Inundation Vision Sparsely Vegereld Observation	logy Indicors (mininger (A1) Table (A2) A3) (B1) Eposits (B2) Es (B3) Crust (B4) Es (B5) Trisible on Augustated Controls:	num of c	ery (B7) ace (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (Continuous Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Type: Depth (inches) emarks: ydrology etland Hydrology etland Hydrology High Water Ta Saturation (AS Water Marks (Sediment Dep Drift deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege etlated Observation urface Water Prese fater Table Prese	logy Indicors (mininger (A1) Fable (A2) A3) (B1) Iposits (B2) Is (B3) Crust (B4) Is (B5) Isible on Acceptated Conceptated Ons: esent? ent?	num of c	ery (B7) ace (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Type: Depth (inches) emarks: ydrology vetland Hydrology High Water Ta Saturation (AS Water Marks (Sediment Dep Drift deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege vetled Observation urface Water Presentation Presen	ogy Indic ors (minir er (A1) Table (A2) A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) fisible on Adetated Control ons: esent? ent? v fringe)	erial Imagicave Surf Yes Yes	ery (B7) ace (B8) No • No • No •	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Type: Depth (inches) Lemarks: ydrology Vetland Hydrolog Indicator Surface Water High Water Ta Saturation (AS Water Marks (Sediment Dep Drift deposits Algal Mat or Co Iron Deposits Inundation Vis Sparsely Vege lield Observatio urface Water Presentation Presentat	ogy Indic ors (minir er (A1) Table (A2) A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) fisible on Adetated Control ons: esent? ent? v fringe)	erial Imagicave Surf Yes Yes	ery (B7) ace (B8) No • No • No •	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Depth (inches) Remarks: Ydrology Vetland Hydrolo Primary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Algal Mat or C Iron Deposits Inundation Vis Sparsely Vege Veter Table Prese Saturation Present includes capillary	ogy Indic ors (minir er (A1) Table (A2) A3) (B1) posits (B2) s (B3) Crust (B4) s (B5) fisible on Adetated Control ons: esent? ent? v fringe)	erial Imagicave Surf Yes Yes	ery (B7) ace (B8) No • No • No •	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wet	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 16-Nov-11 F-1W Applicant/Owner: Clancy & Theys State: NY Sampling Point: Landform (hillslope, terrace, etc.): Toeslope Investigator(s): BPC, BSW, AJR Soil Map Unit Name: Castile gravelly silt loam, 0 to 5 percent slopes Cover Type: DFW Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes , Soil , or Hydrology significantly disturbed? Are Vegetation Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Yes • No O Is the Sampled Area **Hydrophytic Vegetation Present?** Yes No within a Wetland? No O Yes **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes No O Wetland Hydrology Present? Flag F-3, Photo 25 and 26. Wetland is located in a depressional (low) area associated with a saddle landform feature. **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 1. Fraxinus pennsylvanica 30 **✓** 30.0% **FACW** (A) That are OBL, FACW, or FAC: **✓** 60.0% 2. Acer rubrum 60 FAC **Total Number of Dominant** 3. Ulmus americana 10.0% 10 3 Species Across All Strata: (B) 0 0.0% Percent of dominant Species 5. 0 0.0% 100.0% (A/B) That Are OBL, FACW, or FAC: 100 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Ulmus americana **✓** 100.0% FACW Total % Cover of: 15 Multiply by: 2. 0 0.0% OBL species x 1 =3. 0 0.0% 110 x 2 =FACW species 4. 0 0.0% 180 60 FAC species x 3 = 0 0.0% 0 0 FACU species 15 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. 0 0.0% 115 290 (B) Column Totals: 2. 0 0.0% 2.522 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ✓ Dominance Test is > 50% 6. 0.0% 0 7. ✓ Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 0 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0 0.0%

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

0

0.0%

= Total Cover

Hydrophytic

Yes 💿

No O

Vegetation

Soil Sampling Point: F-1W

Depth		Matrix				iox reat			
(inches) 0-2	Color (m	3/2	% 100%	Color (r	noist)	%	Type ¹	Loc ²	Silt Loam
				7 FVD					
2-18+	10YR	3/2	<u>98</u>	7.5YR	4/4	2	C	PL	Silt Loam
							_		- <u></u>
ype: C=Concent	tration. D=	-Depletion	. RM=Reduce	d Matrix,	CS=Covere	ed or Coa	ted Sand Gr	ains ² Loc	cation: PL=Pore Lining. M=Matrix
lydric Soil Indi	cators:								Indicators for Problematic Hydric Soils ³ :
Histosol (A1)					•		rop in LRR	•	☐ 2 cm Muck (A10) (LRR K, L, S)
Histic Epipedo	on (A2)					. , .	A 149B of I	•	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3) (excep	t in MLRA	143)	′			e (S8) (LRR	R, S)	5 cm Mucky Peat or Peat (S3)
Hydrogen Sul				_		, ,	(LRR R, S)		☐ Dark Surface (S7) (LRR K, L)
Stratified Lay	` ,			_	my Mucky	•	,		Polyvalue Below Surface (S8) (LRR K, L)
Depleted Belo	ow Dark Su	urface (A1	1)		my Gleyed	•	=2)		☐ Thin Dark Surface (S9) (LRR K, L)
Thick Dark Su	•	•		_ :	leted Matr	` ,			Iron-Manganese Masses (F12)
Sandy Muck N	•	,			ox Dark Su	•	•		Piedmont Floodplain Soils (F19)
Sandy Gleyed		4)			leted Dark		` '		Red Parent Material (TF2)
J Sandy Redox Indicators of hy	` '				ox Depres	•	•		Other (Explain in Remarks)
Type: Depth (inches)	١.								Hydric Soil Present? Yes No
	\								Hydric Soil Present? Yes No
Remarks:									
lydrology Vetland Hydrol				- 411	11 41-4				Secondary Indicators (minimum of two require
rimary Indicato		num of c	ne is requir						Surface Soil Cracks (B6)
	` '				ater-Stain		s (B9)		✓ Drainage Patterns (B10)
☐ High Water T	, ,				quatic Faui	. ,			Moss Trim Lines (B16)
Saturation (A					arl Deposit		(54)		☐ Dry Season Water Table (C2)
Water Marks	. ,				ydrogen Si			D . (0	Crayfish Burrows (C8)
✓ Sediment Dep							_	ng Roots (C	
Drift deposits	` '				esence of		` '	'-:I- (CC)	Stunted or Stressed Plants (D1)
Algal Mat or 0Iron Deposits	. ,				ecent fron hin Muck S		n in Tilled S	olis (Cb)	Geomorphic Position (D2)
✓ Inundation Vi	` '	orial Imag	on. (P7)		ther (Expla	•	•		☐ Shallow Aquitard (D3)✓ Microtopographic Relief (D4)
Sparsely Vege			, , ,		uiei (Expie	iiii iii Keii	iai NS)		Microtopographic Relief (D4)FAC-Neutral Test (D5)
ield Observation		Voc. (O No ●		Davida Cara	l		\neg	
urface Water Pre	esent?	Yes (Depth (inc	nes):			
ater Table Prese		Yes	○ No ⊙		Depth (inc	hes):		Wetl	land Hydrology Present? Yes No
aturation Present ncludes capillary	fringe)	Yes			Depth (inc		12		
escribe Record	led Data	(stream	gauge, mon	toring we	ell, aerial	photos,	previous i	nspections	s), if available:
emarks:									
Area recieves st	orm wate	er/upland	draingage	via a con:	structed s	swale to	the south		

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 16-Nov-11 Applicant/Owner: Clancy & Theys UP-1 State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Flat Soil Map Unit Name: Hoosic gravelly sandy loam, rolling Cover Type: EFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes 💿 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Is the Sampled Area **Hydrophytic Vegetation Present?** Yes 🔾 No 💿 Yes O No • within a Wetland? Yes 🔾 No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Remarks: Photo 24 **VEGETATION -** Use scientific names of plants. **Dominant** Species? Rel.Strat. Indicator **Absolute Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius **Status** % Cover Cover Number of Dominant Species 1. Pinus strobus 30 **✓** 30.0% FACU (A) That are OBL, FACW, or FAC: 70 \checkmark 70.0% 2. Pinus rigida **Total Number of Dominant** 0 0.0% 6 Species Across All Strata: (B) 0 0.0% Percent of dominant Species 0 0.0% 33.3% (A/B) That Are OBL, FACW, or FAC: 100 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Pinus strobus **✓** 33.3% FACU Total % Cover of: 10 Multiply by: 2. Ostrya virginiana 33.3% FACU 10 OBL species x 1 =3. Acer rubrum 10 33.3% FAC 4 FACW species x 2 =4. 0 0.0% 10 30 FAC species 0 0.0% 480 FACU species 30 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Vaccinium corymbosum 2 ✓ 100.0% FACW 132 514 (B) Column Totals: 2. 0 0.0% 3.894 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 2 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0 0.0%

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

0

0.0%

= Total Cover

No 💿

Hydrophytic

Yes 🔾

Vegetation

Soil Sampling Point: UP-1

0-3 1 3-7 1 7-18+ 1 7-18+ 1 Type: C=Concentra Iydric Soil Indica Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfin	cators:	100% 100% 100%	Color (moist) % Type ¹ Loc ² d Matrix, CS=Covered or Coated Sand Grains ² Loc	Loam Some silt Silt Loam
3-7 1 7-18+ 1 7-18+ 1 Type: C=Concentrallydric Soil Indically Histosol (A1) Histic Epipedor Black Histic (A3) Hydrogen Sulfin	10YR 4/4 10YR 5/6 ration. D=Depletion	100%	d Matrix, CS=Covered or Coated Sand Grains 21 oc	Loam some silt
/pe: C=Concentra ydric Soil Indica Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi	10YR 5/6 ration. D=Depletion	100%	d Matrix, CS=Covered or Coated Sand Grains 21 oc	LOAM
rpe: C=Concentra rdric Soil Indica Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi	ration. D=Depletion		d Matrix, CS=Covered or Coated Sand Grains 21 oc	Silt Loam
ydric Soil Indica Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi	cators:	ı. RM=Reduce	d Matrix, CS=Covered or Coated Sand Grains 21 oc	
ydric Soil Indica Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi	cators:	ı. RM=Reduce	d Matrix CS=Covered or Coated Sand Grains 21 oc	
Histosol (A1) Histic Epipedor Black Histic (A3 Hydrogen Sulfi			a ridurity es covered of codeca sand crains Loc	ation: PL=Pore Lining. M=Matrix
Histic Epipedor Black Histic (A3 Hydrogen Sulfi	n (Δ2)			Indicators for Problematic Hydric Soils ³ :
Black Histic (A3	n (A2)		Stripped Matrix (S6) (Drop in LRR R?)	2 cm Muck (A10) (LRR K, L, S)
Hydrogen Sulfi	• •		Dark Surface (S7) (MLRA 149B of LRR S)	Coast Prairie Redox (A16) (LRR K, L, R)
_ ′ -	3) (except in MLRA	ı 143)	Polyvalue Below Surface (S8) (LRR R, S)	5 cm Mucky Peat or Peat (S3)
	• ,		Thin Dark Surface (S9) (LRR R, S)	Dark Surface (S7) (LRR K, L)
Stratified Layer	` ,		Loamy Mucky Mineral (F1)	Polyvalue Below Surface (S8) (LRR K, L)
Ξ .	w Dark Surface (Al	.1)	Loamy Gleyed Matrix (F2)	☐ Thin Dark Surface (S9) (LRR K, L)
☐ Thick Dark Sur	` ,		Depleted Matrix (F3)	☐ Iron-Manganese Masses (F12)
☐ Sandy Muck Mi	` ,		Redox Dark Surface (F6) Depleted Dark Surface (F7)	Piedmont Floodplain Soils (F19)
☐ Sandy Gleyed N	` ,		Redox Depressions (F8)	Red Parent Material (TF2)
☐ Sandy Redox (. ,		hydrology must be present unless disturbed or prob	Uther (Explain in Remarks)
Remarks: ydrology				
/etland Hydrolog	gy Indicators:			
rimary Indicator				Secondary Indicators (minimum of two required)
Hillary Hillicator	rs (minimum of	one is require	ed; check all that apply)	
Surface Water		one is require	ed; check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6) Drainage Patterns (B10)
	(A1)	one is require		Surface Soil Cracks (B6)
Surface Water	(A1) ble (A2)	one is require	Water-Stained Leaves (B9)	Surface Soil Cracks (B6) Drainage Patterns (B10)
Surface Water High Water Tal	(A1) able (A2)	one is require	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Drainage Patterns (B10) Moss Trim Lines (B16)
Surface Water High Water Tal Saturation (A3)	(A1) uble (A2) uble (B1)	one is require	☐ Water-Stained Leaves (B9) ☐ Aquatic Fauna (B13) ☐ Marl Deposits (B15)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8)
Surface Water High Water Tal Saturation (A3) Water Marks (E	(A1) ible (A2) i) B1) osits (B2)	one is require	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8)
Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo	(A1) ble (A2)) B1) osits (B2) (B3)	one is require	 □ Water-Stained Leaves (B9) □ Aquatic Fauna (B13) □ Marl Deposits (B15) □ Hydrogen Sulfide Odor (C1) □ Oxidized Rhizospheres along Living Roots (C 	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)
Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo	(A1) able (A2) b) B1) osits (B2) (B3) rust (B4)	one is require	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)
Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift deposits (Algal Mat or Cr Iron Deposits (Inundation Visi	(A1) able (A2) b) B1) osits (B2) (B3) rust (B4)	gery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2)
Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift deposits (Algal Mat or Cr Iron Deposits (Inundation Visi Sparsely Veget	(A1) able (A2) b) B1) osits (B2) (B3) rust (B4) (B5) able on Aerial Image tated Concave Surf	gery (B7) face (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift deposits (Algal Mat or Cr Iron Deposits (Inundation Visi Sparsely Veget	(A1) able (A2) b) B1) osits (B2) (B3) rust (B4) (B5) iible on Aerial Imagitated Concave Surface ns: eent? Yes	gery (B7) face (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4)
Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift deposits (Algal Mat or Cr Iron Deposits (Inundation Visi Sparsely Veget ield Observation urface Water Preservation	(A1) able (A2) b) B1) osits (B2) (B3) rust (B4) (B5) bible on Aerial Imagitated Concave Surface ns: pent? Yes	gery (B7) face (B8)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift deposits (Algal Mat or Cr Iron Deposits (Inundation Visi Sparsely Veget Water Table Presentaturation Present? includes capillary fi	(A1) able (A2) b) B1) osits (B2) (B3) rust (B4) (B5) bible on Aerial Image tated Concave Surface ms: eent? Yes cht? Yes fringe) Yes	gery (B7) face (B8) No No No No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetl	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5)
Surface Water High Water Tal Saturation (A3) Water Marks (E Sediment Depo Drift deposits (Algal Mat or Cr Iron Deposits (Inundation Visi Sparsely Veget Field Observation Surface Water Presen Saturation Present? Fincludes capillary fi	(A1) able (A2) b) B1) osits (B2) (B3) rust (B4) (B5) bible on Aerial Image tated Concave Surface ms: eent? Yes cht? Yes fringe) Yes	gery (B7) face (B8) No No No No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Marl Deposits (B15) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C) Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Wetl	Surface Soil Cracks (B6) Drainage Patterns (B10) Moss Trim Lines (B16) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1) Geomorphic Position (D2) Shallow Aquitard (D3) Microtopographic Relief (D4) FAC-Neutral Test (D5) and Hydrology Present? Yes No

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 **Sampling Date:** 16-Nov-11 UP-2 **Applicant/Owner:** Clancy & Theys State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Flat Soil Map Unit Name: Castile gravelly silt loam, 0 to 5 percent slopes Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes , Soil , or Hydrology significantly disturbed? Are Vegetation Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Yes O Is the Sampled Area **Hydrophytic Vegetation Present?** No 💿 Yes O No • within a Wetland? Yes 🔾 No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Remarks: Photo 29. Carpinus caroliniana also in tree stratum. **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Status Number of Dominant Species 60 **✓** 46.2% FAC 1. Acer rubrum (A) That are OBL, FACW, or FAC: 2. Populus grandidentata \checkmark 30.8% 40 **FACU Total Number of Dominant** 3. Prunus serotina 11.5% FACU 15 Species Across All Strata: (B) 4. Pinus strobus 5 3.8% **FACU** Percent of dominant Species 5. Fraxinus americana 10 7.7% FACU 25.0% (A/B) That Are OBL, FACW, or FAC: 130 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Ostrya virginiana 5 ✓ 100.0% FACU Total % Cover of: Multiply by: 2. 0.0% 0 OBL species x 1 =3. 0 0.0% 0 FACW species x 2 =4. 0 0.0% 180 FAC species 5. 0 0.0% 87 348 FACU species 5 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Dryopteris intermedia 10 **✓** 83.3% FACU 147 528 (B) Column Totals: 2. Alliaria petiolata 2 16.7% FACU 3.592 Prevalence Index = B/A =3. 0 0.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 12 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic.

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

0

0

0.0%

0.0%

= Total Cover

Hydrophytic

Yes O

Vegetation

Present?

No 💿

1.

Soil

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

Depth Matrix Redox Features
(inches) Color (moist) % Color (moist) % Type 1 Loc2 Texture Remarks

Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLI Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetatiestrictive Layer (if observed): Type: Depth (inches):	Loam Silt Loam Silt Loam Loam Loam Loam Loam Silt Loam Striped Matrix, CS=Covered or Coated Sand Grains ² Location: PL=Pore Lining. M=Matrix Indicators for Problematic 2 cm Muck (A10) (LRR K, Dark Surface (S7) (MLRA 149B of LRR S) Coast Prairie Redox (A16) Loamy Polyvalue Below Surface (S8) (LRR R, S) Thin Dark Surface (S9) (LRR R, S) Dark Surface (S7) (LRR K, Dark Surface (S7) (LRR K, Dark Surface (S9) (LIR R, S) Dark Surface (S9) (LIR R, S) Dark Surface (S9) (LIR R, S) Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Red Parent Material (TF2) Redox Depressions (F8) Other (Explain in Remarks attion and wetland hydrology must be present unless disturbed or problematic.	L, S) (L, R) (LRR K, L, R) (S3) , L) (S8) (LRR K, L) RR K, L) (F12) (F19)
ype: C=Concentration. D=Depleti ydric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLI Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetatiestrictive Layer (if observed): Type: Depth (inches):	etion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains Stripped Matrix (S6) (Drop in LRR R?)	L, S) (LRR K, L, R) (S3) , L) (S8) (LRR K, L) RR K, L) (F12) (F19)
De: C=Concentration. D=Depleting dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLI Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetation trictive Layer (if observed): Type: Depth (inches): marks:	etion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains Stripped Matrix (S6) (Drop in LRR R?)	L, S) (LRR K, L, R) (S3) , L) (S8) (LRR K, L) RR K, L) (F12) (F19)
Hric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLI Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) dicators of hydrophytic vegetation of the control of the	Indicators for Problematic Stripped Matrix (S6) (Drop in LRR R?) 2 cm Muck (A10) (LRR K, Dark Surface (S7) (MLRA 149B of LRR S) Coast Prairie Redox (A16)	L, S) (LRR K, L, R) (S3) , L) (S8) (LRR K, L) RR K, L) (F12) (F19)
Histosol (A1) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLI Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) dicators of hydrophytic vegetati trictive Layer (if observed): Type: Depth (inches): marks:	Indicators for Problematic Stripped Matrix (S6) (Drop in LRR R?) 2 cm Muck (A10) (LRR K, Dark Surface (S7) (MLRA 149B of LRR S) Coast Prairie Redox (A16)	L, S) (LRR K, L, R) (S3) , L) (S8) (LRR K, L) RR K, L) (F12) (F19)
dric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLI Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetatistrictive Layer (if observed): Type: Depth (inches): marks:	Indicators for Problematic Stripped Matrix (S6) (Drop in LRR R?) 2 cm Muck (A10) (LRR K, Dark Surface (S7) (MLRA 149B of LRR S) Coast Prairie Redox (A16)	L, S) (LRR K, L, R) (S3) , L) (S8) (LRR K, L) RR K, L) (F12) (F19)
Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLI Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetatistrictive Layer (if observed): Type: Depth (inches): marks:	Indicators for Problematic Stripped Matrix (S6) (Drop in LRR R?) 2 cm Muck (A10) (LRR K, Dark Surface (S7) (MLRA 149B of LRR S) Coast Prairie Redox (A16)	L, S) (LRR K, L, R) (S3) , L) (S8) (LRR K, L) RR K, L) (F12) (F19)
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Adric Soil Indicators: Histosol (A1) Histic Epipedon (A2) Black Histic (A3) (except in MLI Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetationstrictive Layer (if observed): Type: Depth (inches):	Indicators for Problematic Stripped Matrix (S6) (Drop in LRR R?) 2 cm Muck (A10) (LRR K, Dark Surface (S7) (MLRA 149B of LRR S) Coast Prairie Redox (A16)	L, S) (LRR K, L, R) (S3) , L) (S8) (LRR K, L) RR K, L) (F12) (F19)
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Stratified Layers (A5) Depleted Below Dark Surface (A2) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetatistrictive Layer (if observed): Type: Depth (inches):	Thin Dark Surface (S9) (LRR R, S) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Redox Depressions (F8) Dark Surface (S7) (LRR K, Polyvalue Below Surface (S9) (LI Thin Dark Surface (S9) (LI Polyvalue Below Surface (, L) (S8) (LRR K, L) RR K, L) (F12) (F19)
Depleted Below Dark Surface (A12) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetatestrictive Layer (if observed): Type: Depth (inches): emarks:	Loamy Mucky Mineral (F1) Polyvalue Below Surface ((A11) Loamy Gleyed Matrix (F2) Thin Dark Surface (S9) (LI Depleted Matrix (F3) Iron-Manganese Masses (I) Redox Dark Surface (F6) Piedmont Floodplain Soils Depleted Dark Surface (F7) Red Parent Material (TF2) Redox Depressions (F8) Other (Explain in Remarks ation and wetland hydrology must be present unless disturbed or problematic.	(S8) (LRR K, L) RR K, L) (F12) (F19) (S8)
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Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetationstrictive Layer (if observed): Type: Depth (inches): Demarks:	Depleted Matrix (F3) Iron-Manganese Masses (I Redox Dark Surface (F6) Piedmont Floodplain Soils Depleted Dark Surface (F7) Red Parent Material (TF2) Redox Depressions (F8) Other (Explain in Remarks ation and wetland hydrology must be present unless disturbed or problematic.	F12) (F19) (S)
Sandy Gleyed Matrix (S4) Sandy Redox (S5) Indicators of hydrophytic vegetatiestrictive Layer (if observed): Type: Depth (inches): emarks:	Redox Dark Surface (F6) Piedmont Floodplain Soils Depleted Dark Surface (F7) Red Parent Material (TF2) Redox Depressions (F8) Other (Explain in Remarks ation and wetland hydrology must be present unless disturbed or problematic.	(F19) (55)
Sandy Redox (S5) Indicators of hydrophytic vegetatiestrictive Layer (if observed): Type: Depth (inches): emarks:	Depleted Dark Surface (F7) Red Parent Material (TF2) Redox Depressions (F8) Other (Explain in Remarks ation and wetland hydrology must be present unless disturbed or problematic.	s)
Sandy Redox (S5) Indicators of hydrophytic vegetatiestrictive Layer (if observed): Type: Depth (inches): emarks:	Redox Depressions (F8) Other (Explain in Remarks ation and wetland hydrology must be present unless disturbed or problematic.	s)
estrictive Layer (if observed): Type: Depth (inches): emarks:	ation and wetland hydrology must be present unless disturbed or problematic.	,
estrictive Layer (if observed): Type: Depth (inches): emarks:):	○ No ●
ydrology		
ydrology		
ydrology		
,		
etland Hydrology Indicators:	Secondary Indicators (m	inimum of two required)
imary Indicators (minimum o	of one is required; check all that apply) Surface Soil Cracks ((B6)
Surface Water (A1)	Water-Stained Leaves (B9) Drainage Patterns (B	` '
High Water Table (A2)	Aquatic Fauna (B13) Moss Trim Lines (B1	,
Saturation (A3)	Marl Deposits (B15) Dry Season Water To	•
Water Marks (B1)	Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8	• ,
Sediment Deposits (B2)	_ ' ' '	n Aerial Imagery (C9)
Drift deposits (B3)	Presence of Reduced Iron (C4) Stunted or Stressed	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position	
Iron Deposits (B5)	☐ Thin Muck Surface (C7) ☐ Shallow Aquitard (D3	
Inundation Visible on Aerial Im		•
Sparsely Vegetated Concave Su		
eld Observations:		
rface Water Present? Yes	es O No O Depth (inches):	
ater Table Present? Yes	es O No O Depth (inches):	
aturation Present?	es O No O Depth (inches): Wetland Hydrology Present? Ye	es O No 💿
aturation Present? ncludes capillary fringe) Yes	Wetland Hydrology Present? Ye	es O No O
aturation Present? ncludes capillary fringe) Yes	Wetland Hydrology Present? Ye	No •

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer Project/Site: BGA-3713 Sampling Date: 16-Nov-11 UP-3 **Applicant/Owner:** Clancy & Theys State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Hillside Soil Map Unit Name: Hoosic gravelly sandy loam, 3 to 8 percent slopes Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes , Soil , or Hydrology significantly disturbed? Are Vegetation Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Yes O Is the Sampled Area **Hydrophytic Vegetation Present?** No 💿 Yes O No • within a Wetland? Yes 🔾 No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Photo 30. Acer rubrum, Betula populifolia, and Quercus velutina also in tree stratum. **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 10 15.4% FACU 1 Betula lenta (A) That are OBL, FACW, or FAC: 2. Prunus serotina 5 7.7% **FACU Total Number of Dominant** 3. Quercus alba 15.4% FACU 10 5 Species Across All Strata: (B) 4. Quercus rubra 20 30.8% FACU Percent of dominant Species 30.8% FACU 5. Pinus strobus 20 0.0% (A/B) That Are OBL, FACW, or FAC: 65 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Pinus strobus 20 **✓** 66.7% FACU Total % Cover of: Multiply by: 2. Carpinus caroliniana 5 16.7% FAC OBL species x 1 =3. Ostrya virginiana 5 16.7% FACU 0 FACW species x 2 =4. 0 0.0% 5 15 x 3 = FAC species 0 0.0% 120 480 FACU species 30 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 1. Pinus strobus 5 16.7% FACU 125 495 (B) Column Totals: 2. Dryopteris intermedia **~** 10 33.3% **FACU** 3.960 Prevalence Index = B/A =3. Alliaria petiolata 15 **✓** 50.0% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 30 = Total Cover $^{ extstyle 1}$ Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0 0.0%

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

0

0.0%

= Total Cover

No 💿

Hydrophytic

Yes O

Vegetation

Soil Sampling Point: UP-3

Zetland Hydrology Indicators: Secondary Indicators (minimum of two re
Sandy Loam Fine Sand Sandy Redx (All) (URB K, L, S) Coast Prairie Redox (All) (URB K, L, S) Coast Prairie Redox (All) (URB K, L, S) Sand Surface (S9) (URR K, S) Dark Surface (S9) (URR K, L) Thin Dark Surface (S9) (URR K, L) Thin Dark Surface (S9) (URR K, L) Thin Dark Surface (S9) (URB K, L) Thin Dark Surface (S9) Sandy Redox (S5) Redox Dark Surface (F7) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox (S5) Sandy Redox Dark Surface (F7) Redox Dark Surf
De: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains Saltoy Loam Salto
Indicators for Problematic Hydric Soils ³ : Histosol (A1)
Indicators for Problematic Hydric Soils ³ : Histosol (A1)
Indicators for Problematic Hydric Soils: Histosol (A1)
Indicators for Problematic Hydric Soils : Histosol (A1)
Histosol (A1)
Histic Epipedon (A2)
Black Histic (A3) (except in MLRA 143) Polyvalue Below Surface (S8) (LRR R, S) 5 cm Mucky Peat or Peat (S3) Hydrogen Sulfide (A4) Thin Dark Surface (S9) (LRR R, S) Dark Surface (S7) (LRR K, L) Stratified Layers (A5) Dark Surface (S9) (LRR K, L) Stratified Layers (A5) Downward (S1) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Depleted Below Dark Surface (A12) Depleted Matrix (F2) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Depleted Matrix (F3) Iron-Manganese Masses (F12) Sandy Muck Mineral (S1) Redox Dark Surface (F6) Piedmont Floodplain Soils (F19) Sandy Redox (S5) Redox Dark Surface (F7) Red Parent Material (TF2) Sandy Redox (S5) Redox Depressions (F8) Other (Explain in Remarks) Indicators of hydrophytic vegetation and wetland hydrology must be present unless disturbed or problematic. **Strictive Layer (if observed):** Type: Depth (inches): Hydric Soil Present? Yes No **Torology** **Torology*
Hydrogen Sulfide (A4)
Stratified Layers (A5)
Depleted Below Dark Surface (A11)
Type: Depth (inches): Hydric Soil Present? Type: Depth (inches): Hydric Soil Present? Secondary Indicators (minimum of one is required; check all that apply) Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Marl Deposits (B15) Androse (B12) Depleted Matrix (F3) Iron-Manganese Masses (F12) Piedmont Floodplain Soils (F19) Piedmont Floodplain Soils (F19 Piedmont Floodplain Soils (F19) Piedmont Floodplain Soils (F19) Piedmont Floodplain Soils (F19) Piedmont Floodplain Soils (F
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Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)
_ ' ' ' ' '
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Drift deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Thin Muck Surface (C7) ☐ Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)
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/ater Table Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches)

WETLAND DETERMINATION DATA FORM - Northcentral and Northeast Region (Draft) City/County: Schodack/Renselaer **Project/Site:** BGA-3713 Sampling Date: 16-Nov-11 UP-4 **Applicant/Owner:** Clancy & Theys State: NY Sampling Point: Investigator(s): BPC, BSW, AJR Landform (hillslope, terrace, etc.): Flat Soil Map Unit Name: Hoosic gravelly sandy loam, 3 to 8 percent slopes Cover Type: DFU Yes No Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Yes Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.) Summary of Findings - Attach site map showing sampling point locations, transects, important features, etc Is the Sampled Area **Hydrophytic Vegetation Present?** Yes O No 💿 Yes O No • within a Wetland? Yes O No 💿 **Hydric Soil Present?** If yes, optional Wetland Site ID: Yes O No 💿 Wetland Hydrology Present? Remarks: Photo 31. Pupulus tremuloides and Quercus velutina also in tree stratum. **VEGETATION -** Use scientific names of plants. **Dominant** Species? **Absolute** Rel.Strat. Indicator **Dominance Test worksheet:** Tree Stratum (Plot size: 30' Radius % Cover Cover Number of Dominant Species 20 **✓** 33.3% FAC 1. Acer rubrum (A) That are OBL, FACW, or FAC: \checkmark 25.0% 2. Quercus rubra 15 **FACU Total Number of Dominant** 3. Prunus serotina 10 16.7% FACU 7 Species Across All Strata: (B) 16.7% 4. Quercus alba 10 FACU Percent of dominant Species 5. Betula populifolia 5 8.3% FAC 14.3% (A/B) That Are OBL, FACW, or FAC: 60 = Total Cover Sapling/Shrub Stratum (Plot size: 15' Radius Prevalence Index worksheet: 1. Lonicera tatarica **✓** 50.0% FACU Total % Cover of: 10 Multiply by: 2. Pinus strobus 50.0% FACU 10 OBL species x 1 =3. 0 0.0% 0 FACW species x 2 =4. 75 0 0.0% FAC species 5. 0 0.0% 252 FACU species 20 = Total Cover 0 0 Herb Stratum (Plot size: 5' Radius **UPL** species 37.5% 1. Lonicera tatarica 3 **✓** FACU 88 327 (B) Column Totals: 2. Solidago canadensis 2 25.0% **FACU** 3.716 Prevalence Index = B/A =3. Pinus strobus 3 **✓** 37.5% **Hydrophytic Vegetation Indicators:** 4. 0 0.0% Rapid Test for Hydrophytic Vegetation 5. 0 0.0% ☐ Dominance Test is > 50% 6. 0.0% 0 7. Prevalence Index is ≤3.0 ¹ 0 0.0% 8. 0.0% Morphological Adaptations ¹ (Provide supporting 9 data in Remarks or on a separate sheet) 0 0.0% 10. Problematic Hydrophytic Vegetation ¹ (Explain) 0 0.0% 8 = Total Cover 1 Indicators of hydric soil and wetland hydrology must Woody Vine Stratum (Plot size: 30' Radius be present, unless disturbed or problematic. 1. 0 0.0%

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

0

0.0%

= Total Cover

No 💿

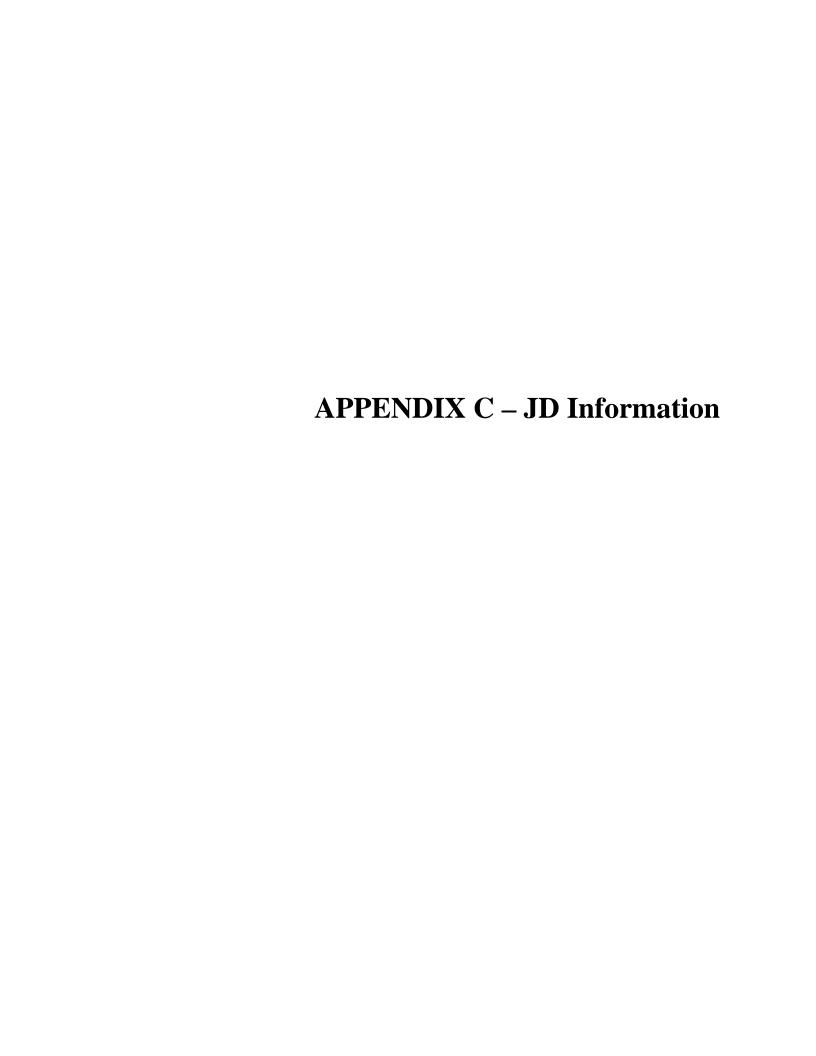
Hydrophytic

Yes O

Vegetation

Soil Sampling Point: UP-4

(inches) 0-4	Color (r		100%	Color (moist) % Type ¹ Loc ²	Texture	Remarks
	10YR	3/2	100%		Loam	Small pebbles
18+	10YR	4/4	100%		Silt Loam	
					-	
ne: C-Conce	entration D	-Depletion	DM-Peduce	ed Matrix, CS=Covered or Coated Sand Grains ² Lo	cation: PL=Pore Lining.	M-Matriy
dric Soil In		-Беріспоп	- NIT-Neddec	and Hadria, co-covered of coated sails drains		oblematic Hydric Soils ³ :
Histosol (A	\1)			Stripped Matrix (S6) (Drop in LRR R?)		10) (LRR K, L, S)
Histic Epipe	edon (A2)			Dark Surface (S7) (MLRA 149B of LRR S)		Redox (A16) (LRR K, L, R)
] Black Histic	c (A3) (exce	pt in MLRA	143)	Polyvalue Below Surface (S8) (LRR R, S)		eat or Peat (S3)
] Hydrogen 9	Sulfide (A4)			Thin Dark Surface (S9) (LRR R, S)	Dark Surface ((S7) (LRR K, L)
Stratified L	ayers (A5)			Loamy Mucky Mineral (F1)		ow Surface (S8) (LRR K, L)
Depleted B	Below Dark S	urface (A1	1)	Loamy Gleyed Matrix (F2)	Thin Dark Surf	face (S9) (LRR K, L)
Thick Dark	Surface (A1	2)		Depleted Matrix (F3)	☐ Iron-Mangane	se Masses (F12)
Sandy Muc	ck Mineral (S	1)		Redox Dark Surface (F6)	Piedmont Floo	odplain Soils (F19)
Sandy Gley	yed Matrix (S	64)		Depleted Dark Surface (F7)	Red Parent Ma	aterial (TF2)
Sandy Red	. ,			Redox Depressions (F8)	Other (Explain	in Remarks)
Indicators of	hydrophytic	vegetation	and wetland	hydrology must be present unless disturbed or prol	lematic.	
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Type: Depth (inch	nes):				Hydric Soil Presen	t? Yes O No •
Type: Depth (incheemarks:					Hydric Soil Presen	t? Yes ○ No ●
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CHECKLIST OF INFORMATION INCLUDED WITH REQUESTS FOR JURISDICTIONAL DETERMINATIONS (JD)

1. Name (including POC if a corporation or other entity), complete mailing addresses and phone numbers of the following:

Current Prope	erty Owner:
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Name:	Parcel 1: RJ Valente Gravel, Inc. Parcel 2: 9 & 20 Associates
Address:	(Parcels under option)
Phone Number:	(Parcels under option)

Applicant (Project Sponsor):

Name:	William J. Goggins
Address:	11830 Fishing Point Drive, Suite 201, Newport News, Virginia 23606
Phone Number:	757-873-6869

Wetland Consultant:

Name:	Terrestrial Environmental Specialists, Inc
Address:	23 County Route 6, Suite A, Phoenix, New York 13135
Phone Number:	315-695-7228

- 2. 8½ x 11 Location Map (see Figure 8) showing:
 - UTM Grid Coordinates
 - Stream order and location
 - Head and discharge coordinates of each stream
 - Stream identification (TNWs, perennial RPWs, seasonal RPWs, or non-RPWs)
- 3. Cover letter (**included in report or to be provided**) describing the purpose of the request, a general description of the proposed project, the size (acres) of the parcel, and the size of the limits of the project site or review area (if smaller than the parcel).
- 4. Delineation report, including the following supporting information:
 - Description of any current and/or historic land uses on the site (see Section 4.1 Site Description)
 - DEC Wetlands Maps, NWI Maps, Soil Survey Maps (see Figures 2, 3, and 4, respectively)
 - Watershed size, drainage area size (see Figure 8)
 - Discussion of whether tributaries (streams) on the site are TNWs, perennial RPWs, seasonal RPWs, or non-RPWs (see Figure 9)

•	Waters of the U.S. – indicate presence of waters of U.S. in review area (check all that apply):
	☐ TNWs, including territorial seas
	☐ Wetlands adjacent to TNWs
	Relatively permanent waters (RPWs) that flow directly or indirectly into TNWs
	☐ Non-RPWs that flow directly or indirectly into TNWs
	☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
	Wetlands adjacent to but not directly abutting RPWs that flow directly of
	indirectly into TNWs

CHECKLIST OF INFORMATION INCLUDED WITH REQUESTS FOR JURISDICTIONAL DETERMINATIONS (JD)

Impo	ands adjacent to non-RPWs that flow directly or indirectly into TNWs bundments of jurisdictional waters attended (interstate or intrastate) waters, including isolated wetlands
If wetland on the discuss below:	e site either abuts or is adjacent to a tributary, identify which tributary and
Explanation:	Wetland A has a surface water connection to an unnamed tributary of the Moordener Kill.
If connection to	a TNW, explain connection below:
Explanation:	The Moordener Kill is an RPW which flows into the Hudson River, a TNW.

- Project wetlands are **2-5** aerial (straight) miles and **5-10** river miles from TNW.
- Project waters are 2-5 aerial (straight) miles and 5-10 river miles from TNW.
- Description of tributary substrate composition (e.g. silts, sands, gravel, etc.) (see Appendix B, Field Data Sheets)
- Justification for proposed "isolated" (SWANCC) or non-jurisdictional determinations on any wetlands or streams (see Section 4.3 Wetlands Descriptions)
- Description of vegetative cover types on the site (see Section 4.2 Site Ecology and Section 4.3 Wetlands Descriptions)
- Wetland Delineation Forms for each cover type (see Appendix B, Field Data Sheets)
- Color photographs of all representative areas of the site (see Appendix A, Photographs)