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AECOM

Letter of Transmittal

Attention:	Mr. Prosanta Chowdhury	Date:	April 23, 2009
Project reference:	NMP3NPP	Project number:	01878-137-0008

We are sending you the following:

Number of originals:	Number of copies:	Description:
0	1	NMP3NPP RFJD

Mr. Chowdhury:

Please find the attached Request for Jurisdictional Determination (RFJD) for the proposed Nine Mile Point 3 Nuclear Power Plant (NMP3NPP) for your use. This Request for Jurisdictional Determination was delivered to USACE, NYSDEC and U.S. FWS personnel on Tuesday 04/21/09 and this copy is being provided for your reference.

Please do not hesitate to contact David Klinch or myself with any questions or if you require any additional information. Mr. Klinch can be reached at (978) 928-1191 and I am available at (978) 844-4591 or via email at kristoffer.vannaerssen@aecom.com.

Thank you for your assistance with this matter.

Sincerely,

Kris van Naerssen
Wetland Scientist

UniStar
NUCLEAR ENERGY

April 20, 2009

Bridget E. Brown
Team Leader
U.S. Army Corps of Engineers
7413 County House Road
Auburn, New York 13021

Subject: Request for Wetland Jurisdictional Determination, Revision 1
Nine Mile Point 3 Nuclear Power Plant, Scriba, New York

Dear Ms. Brown:

On behalf of Nine Mile Point 3 Nuclear Project, LLC (NMP3LLC), a revised Request for Jurisdictional Determination (RFJD) is hereby submitted, replacing the version submitted to you on August 12, 2008. The purpose of this submittal is to confirm the jurisdiction and boundaries of wetland resource areas subject to regulation under the U.S Army Corps of Engineers Regulatory Program at a portion of the Nine Mile Point Nuclear Power Station, LLC property in Scriba, Oswego County, New York owned and operated by Constellation Energy Nuclear Group, LLC.

As you know, NMP3LLC is in the process of designing and permitting a new nuclear facility (Nine Mile Point 3 Nuclear Power Plant) on lands adjacent to the existing Nine Mile Point Nuclear Power Station. As part of this process, NMP3LLC has identified, mapped, and characterized wetland resource areas subject to jurisdiction of state and federal agencies within the study area at the Site (approximately 250 acres), and through this filing request that the Corps confirm the findings of this work through a formal Jurisdictional Determination process.

This filing contains text descriptions of the wetlands within the Study Area as well as Jurisdictional Determination forms, data sheets, graphics, and plan sheets illustrating the physical environment of the Study Area including wetland boundaries, and a description of the type, nature, and extent of the wetlands documented within the Study Area.

Following your site inspection of September 11, 2008, NMP3LLC, at your request, completed significant additional survey and site characterization activities in the NMP3 Study Area, and this filing includes the results and presents the data collected as part of these activities. Additional material presented is described in the attached document, and includes refinement of selected wetland boundaries, wetland boundary data in select areas as requested, presentation of 2 foot contour topography throughout the Study Area, and plan work further defining flow patterns, surface water bodies, and subwatershed boundaries.

NMP3LLC appreciates your attention to this submittal, and would be pleased to offer any assistance needed in the processing of this request. If you have any questions relative to

this submittal, please contact the undersigned at 410-470-5857.

Sincerely yours,

Edward P. Jarmas
General Manager
Nine Mile Point 3 Nuclear Project, LLC

cc: Timothy DePriest, NYSDEC
Sandra Doran, U.S. FWS
Prosanta Chowdhury, U.S. NRC
Stephen E. Geier, UniStar
Julea B. Hovey, Constellation Energy
George Wrobel, UniStar
Dimitri Lutchenkov, UniStar
Lisa Decker, Constellation Energy

Prepared for:
Nine Mile Point 3 Nuclear Project, LLC
Scriba, New York

Request for Wetlands Jurisdictional Determination

Nine Mile Point 3 Nuclear Power Plant
Scriba, New York

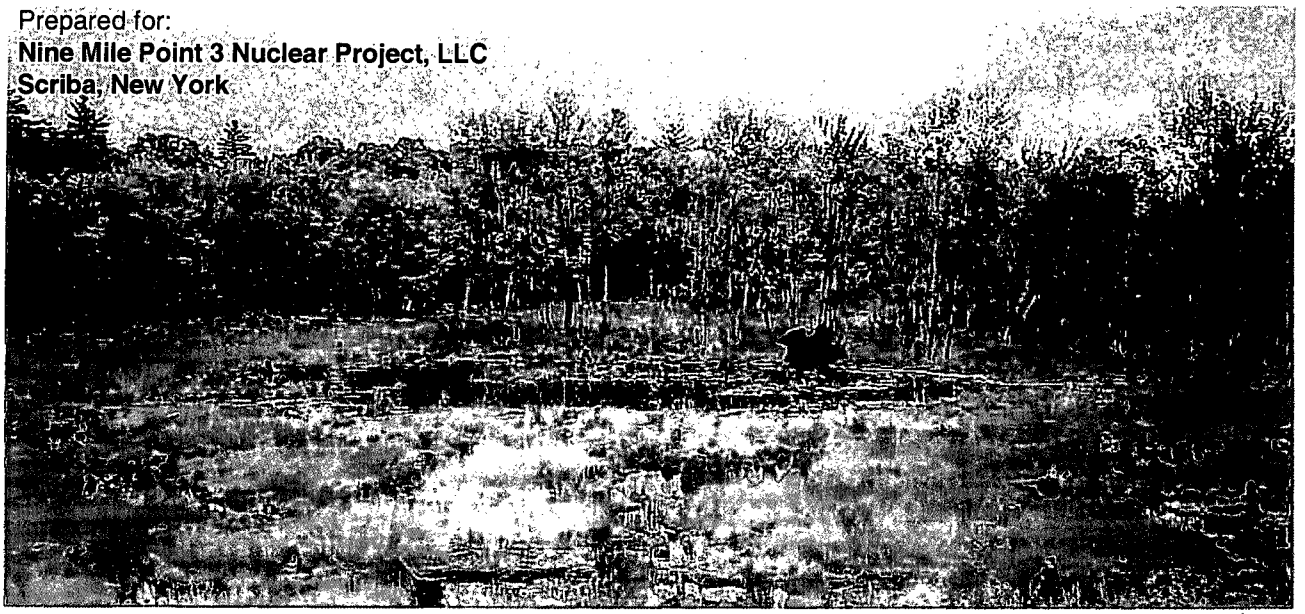
Revision 1

April, 2009

UniStar
NUCLEAR ENERGY

April, 2009
Document No.: 01878-113-Revision 1

Prepared for:
Nine Mile Point 3 Nuclear Project, LLC
Scriba, New York



Request for Wetlands Jurisdictional Determination

Nine Mile Point 3 Nuclear Power Plant Scriba, New York

Prepared by: David C. Klinch, PWS, AECOM Environment

Reviewed By: Carl E. Tammi, PWS, AECOM Environment

April, 2009
Document No.: 01878-113-Revision 1

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1.0 Introduction

On behalf of Nine Mile Point 3 Nuclear Project, LLC (NMP3LLC), this revised Request for a Wetlands Jurisdictional Determination (RFJD) has been prepared by AECOM Environment for submittal to the United States Army Corps of Engineers (Corps) Buffalo District, Auburn Field Office. This revised RFJD replaces the RFJD submitted to the Corps on August 12, 2008. This submittal requests that the Corps make a formal finding on the jurisdictional status and boundaries of wetlands in the Study Area, and provide backup data and mapping to support the documentation needs of this request.

The subject of the RFJD is an approximately 250-acre Study Area located to the west of the existing Unit 2 at the Nine Mile Point Nuclear Station (NMP) in Scriba, Oswego County, New York, as shown on Figure 1. The Study Area is controlled and managed by Constellation Energy Group, Inc. (CE), an affiliate of NMP3LLC, and consists of both developed and undeveloped property.

The purpose of the wetland investigation was to delineate and characterize wetland resource areas present within the Study Area to support an environmentally sensitive layout for a new nuclear unit (NMP3NPP) within the Study Area. NMP Units 1 and 2, as well as the Fitzpatrick Nuclear Generating Station (owned by Entergy), are located immediately east of the Study Area.

As part of this investigation, AECOM Environment provided in-field wetland delineation and assessment services following analysis of aerial photos, DEC freshwater wetland maps, topographic maps, soil surveys, and site and drainage plan details acquired and/or prepared for the NMP3NPP. Field efforts conducted included delineation and characterization of all wetland resource areas subject to protection under the Corps' jurisdiction, including Section 404 of the Clean Water Act (CWA) (33 U.S.C. § 1251. et seq.). As described in Section 3.0 of this report, all delineation services were performed in accordance with applicable state and federal laws and regulations guiding such activities.

In response to the request for additional information by the Corps in September 2008, a number of supplemental activities to improve the clarity and depth of this report have been completed. These activities included the following:

Additional field survey of culverts and drainage structures within the Study Area to provide further insight into surficial hydrologic flow patterns,

Additional investigation and documentation of wetlands characterized as "isolated" within the Study Area,

Extensive revisions to graphics and supporting forms, and

Provision of additional wetland delineation details in text and in additional delineation data sheets.

2.0 Study Area Information

2.1 Site Location

The Study Area is located on the southern shore of Lake Ontario in Scriba, Oswego County, New York, and is bisected (north and south) by Lake Road (U.S. Route 1). To the west the Study Area is partly bounded by Lakeview Road, and to the east exists the active UniStar NMP Units 1 and 2 properties. The Study Area is generally undeveloped, but does include former construction support areas, a shooting range, and extensive transmission rights of way (ROW) south of Lake Road, a ballfield, meteorological tower complex, and pervious surfaced roadways to the north of Lake Road.

The part of the Nine Mile Point property for which wetlands Jurisdictional Determination is requested is referred to in this report and supporting documentation as the Study Area. The approximately 250 acre Study Area is clearly presented on the plan sheets using a contiguous dark line, referred to in the plan legend. UniStar requests that the boundaries and jurisdictional status of all wetlands within the Study Area be determined by the Corps.

Property Owner Representative & Contact:

Mr. Edward Jarmas
General Manager, NMP3NPP
c/o UniStar Nuclear Energy, LLC
750 E. Pratt St., 14th Floor
Baltimore, MD 21202

Site Coordinates: 43° 30' 46"N; 76° 24' 58"W

Area of Review: Site Study Area; approximately 250 acres, outlined on plan sheets included in Appendix B.

Name of Watershed: Salmon-Sandy Watershed (HUC # 04140102)

Name of Nearest Waterbody/Relatively Permanent Water (RPW): Lakeview Creek (perennial Relatively Permanent Water) and one unnamed seasonal stream (RPW)(Stream #2) are located within the Study Area. An additional RPW (Stream #3) is located outside of the Study Area to the east and receives flow from some wetlands within the Study Area. Lake Ontario abuts the property to the north. Refer to the description provided above for more information.

Nearest Traditional Navigable Water (TNW) Within Watershed: Lake Ontario (abuts the property to the north).

Nearest Jurisdictional Navigable Water: Lake Ontario

Plan Sheet 1, included in Appendix B, presents full topographic survey of the Study Area and adjacent lands, along with wetland resource areas and waterways mapped in 2007 and 2008.

2.2 Relevant Research Materials

The extent of the wetland delineation and characterization at the property proposed for power plant development by UniStar adjacent to the existing Nine Mile Point units is illustrated on the attached figures, which include:

Figure 1 – Site Locus from United Stated Geographic Survey (USGS) topographic quadrangle,

Figure 2 – Aerial Site Locus from the NY State Geographic Information Systems (NYSGIS) program,

Figure 3 – DEC Freshwater Wetlands map, also from NYSGIS,

Figure 4 – Natural Resources Conservation Service (NRCS) Soils Profile Map, and

Figure 5 – Watershed Delineations with Catchment data from National Hydrography Data Set on USGS Topographic Quadrangle

2.3 Survey Period

Surveys within the Study Area were conducted during the 2007 and 2008 growing seasons, specifically in early July, late August, and early September. Periods of rain and sun occurred during the survey, with temperatures between 65 and 85 degrees Fahrenheit. Working during moderate to heavy rain events, as well as during drier periods in early July, allowed the delineation team to observe streams and channels within wetlands during both no-flow and high-flow events; this assisted in characterization of wetland hydrology and in understanding the drainage area and watershed of the wetland and waterway features documented.

2.4 Study Area Characteristics

As briefly mentioned above, the Study Area is predominantly undeveloped, but does contain extensive overhead transmission line ROWs, as well as various appurtenances supporting the NMP Units 1 and 2. Based upon observations in the field of stone walls and trees with an average age of 80 years or less, it is believed that the majority of the Study Area had been in active agricultural use and was cleared of all woody vegetation in the early 1900's.

2.4.1 Topography/Geology

The Study Area's major topographic features were created approximately 15,000 years previous by glaciation (flowing glacier ice) and deglaciation (melting glacier ice) processes. The last glaciation in New York was the Late-Wisconsin glaciation from 26,000 years to 12,000 years before present. Continental glacier ice, approximately 2 miles thick, flowed out of Canada and across New England to the approximate location of Nantucket and George's Bank. The flowing glacier streamlined (sand papered) the previously existing bedrock topography and plastered a layer of glacial till, a low permeability, dense mixture of all grain sizes, over the bedrock surface. This process, along with variations in Lake Ontario's water elevations and intermittent deposition of fine-grained lacustrine deposits, formed the dominant topography of the Study Area and adjacent lands.

Bedrock is shallow across the Study Area, and outcrops are somewhat common throughout the area as well. Predominant rock types are Oswego sandstone, Utica shale, Pulaski and Whetstone Gulf siltstones and shales according to field observations and the NYS University Geologic Map of New York, Finger Lakes Region, 1970.

Within the Study Area are flat areas (approximately 20% or less of the Study Area) that have been previously cleared and leveled for construction support and other uses, such as the creation of a baseball field. The remainder of the Study Area is generally unaltered or minimally altered, and exhibits rolling terrain at elevations between 250 and 350 feet NGVD. This unaltered land generally exhibits characteristics of a glaciated landscape as described above, and is generally forested or otherwise stable and vegetated as described in more detail in Section 2.4.2.

Figure 4 illustrates soil types mapped within and adjacent to the Study Area. Within the wetlands in the Study Area, there are two dominant soil types mapped: Ira gravelly fine sandy loam and Lamson very fine sandy loam. To a lesser extent, there are areas of Scriba very stony soils. None of these soils is mapped as a hydric soil in the U.S. Department of Agriculture's publication Hydric Soils of the United States; however, the Oswego County Soil Survey does indicate the presence of hydric inclusion in any of these soil units. Generally, field observations of these sandy loams and stony sandy loams were consistent with the description of these soil units in the Oswego County Soil Survey.

2.4.2 Hydrology

Evidence of wetland hydrology included surface flow channels, saturated soils, inundated soils, water stained leaves, and buttressed trunks. The hydric conditions appear to result from topographically induced poor soil drainage at low points within the Study Area's watershed. Groundwater seepage occurs regularly within the wetlands to the south of Lake Road, and numerous small streams convey surface flow to both the north and south of Lake Road. Bedrock is shallow throughout the Study Area, with average depth below ground surface between 0 and 15 feet. At each wetland series, observations of hydrologic indicators were made and recorded in field books and data sheets (along with documentation of vegetation and soils conditions per the 1987 Army Corps Wetland Delineation Manual).

Significant surface hydrology patterns within the Study Area were reanalyzed following the 2008 Corps/NYSDEC site visit to allow further discussion in this report and presentation on project plans. This work included, as part of its scope, a survey of culverts and other drainage structures affecting wetland hydrology within the Study Area. This data is discussed here and also presented on the attached plans (Appendix B).

Excluding several small isolated wetlands, the Study Area contains wetlands that appear to flow to Lake Ontario through three different primary subwatersheds. These subwatersheds are shown on project plans (Appendix B) and Figure 6.

The first watershed, which contains Lakeview Creek, drains the large complex of wetlands south of Lake Road with the exception of Wetlands AA, BB, CC, MM/NN, and the northern part of Wetland PP/QQ. Wetland naming methodology is described in Section 3.0, and details of the series described here are included in Section 4.0 of this report. This includes wetlands both east and west of the existing railroad tracks and gravel surfaced roadways. Significant parts of this watershed are located outside the Study Area to the south and west.

The second watershed contains an unnamed intermittent stream (Stream #2) that discharges to Lake Ontario approximately 700 feet east of Lakeview Creek. This watershed is located predominantly north of Lake Road, and is entirely contained within the Study Area. Wetlands A, B, and CC (through a culvert under Lake Road leading to Wetland A) are located within the watershed of Stream #2.

The third watershed is located predominantly outside the Study Area to the east, but does maintain a connection to Wetlands BB and MM/NN. This watershed discharges to Lake Ontario via Stream #3, located outside of the Study Area. A single culvert under Lake Road is angled to flow south into Wetland MM/NN, but field observations show northerly flow into drainage channels adjacent to the existing Unit 2 cooling tower. Additional information on individual flow patterns of wetlands within the Study Area is provided in table and text presented in Section 4.0 of this report.

2.4.3 Vegetative Cover Types

Vegetation community types were characterized in the Study Area using aerial photograph interpretation techniques, as well as in-field characterization. Plant communities serve as habitat indicators as plant type changes with environmental conditions. As hydrologic conditions vary from permanent or periodic wetness to

dry conditions, plant communities exhibit adaptations to these conditions. The habitat types observed within the Study Area consist primarily of uplands characterized by successional vegetation and grasses, as well as palustrine forested and scrub-shrub wetlands. The habitats also included forested uplands, palustrine scrub/shrub wetlands, palustrine emergent marsh, and aquatic habitat associated with Lake Ontario.

Scrub shrub wetlands observed within the Study Area are generally dominated by woody species and have a dense sapling and shrub layer. The dominant woody species documented within the scrub-shrub wetlands in the Study Area include highbush blueberry (*Vaccinium corymbosum*), sweet pepperbush (*Clethra alnifolia*), spicebush (*Lindera benzoin*), arrowwood (*Viburnum recognitum*), winterberry (*Ilex verticillata*), willow (*Salix spp.*), speckled alder (*Alnus rugosa*), dogwood (*Cornus spp.*), common elder (*Sambucus canadensis*), buttonbush (*Cephalanthus occidentalis*) and white meadowsweet (*Spiraea latifolia*). The herbaceous layer of scrub-shrub wetlands commonly consists of cinnamon fern (*Osmunda cinnamomea*), sensitive fern (*Onoclea sensibilis*), sphagnum moss, sedges (*Carex spp,*), rushes (*Juncus/Scirpus spp.*) and hydrophilic grasses. Scrub shrub wetlands, along with palustrine forested wetlands, are prevalent to the south of Lake Road, intermixed with forested wetland, previously disturbed ROW, successional habitat, and forested upland.

Emergent marsh wetlands are dominated by herbaceous or non-woody vegetation and usually have surface water or saturated soils present year-round. The majority of the emergent marsh wetlands observed during the wetland investigation are located in the southwest and southeast corners of the Study Area, extending outside of the Study Area as visible on the aerial photo presented on Figure 2. These emergent marshes in the Study Area are vegetated with common species such as cattails (*Typha spp.*), tussock sedge (*Carex stricta*), blue flag (*Irises versicolor*), and other common native sedges, rushes and grasses. Plants such as pickerelweed (*Pontederia cordata*), arrow arum (*Peltandra virginica*), smartweed (*Polygonum hydropiper*), arrowheads (*Sagittaria latifolia*), and arrowleaf tearthumb (*Polygonum sagittatum*) commonly grow in soft organic marsh soils, and were observed throughout the emergent marshes in and adjacent to the Study Area. Marsh vegetation is often found interspersed with open water within the Study Area, also visible on Figure 2.

Palustrine forested wetland communities are dominant within the Study Area to the south of Lake Road. Dominant species include green ash (*Fraxinus pennsylvanica*), Eastern cottonwood (*Populus deltoides*), red maple (*Acer rubrum*), and white pine (*Pinus strobus*), and to a lesser extent American elm (*Ulmus americana*). Typical shrubs found in the understory include highbush blueberry, sweet pepperbush, winterberry, and dogwoods. Herbaceous species within the forested wetlands of the Study Area are cinnamon fern, skunk cabbage (*Symplocarpus foetidus*), jewelweed (*Impatiens capensis*), sphagnum moss, and goldthread (*Coptis trifolia*).

Vegetation found in forested and meadow/successional uplands are generally more diverse and less specialized since these plants are less likely to need adaptations to survive in wet conditions. Herbaceous species regularly observed in the Study Area include Canada mayflower (*Maianthemum canadense*), gooseberry (*Ribes spp.*), partridgeberry (*Mitchella repens*), woodshield fern (*Dryopteris spp.*), false Solomon's seal (*Smilacina racemosa*), bluets (*Houstonia spp.*), starflower (*Trientalis borealis*), and blackberry canes (*Rubus allegheniensis*). Eastern red cedar (*Juniperus virginiana.*), common barberry (*Berberis vulgaris*) and hawthorn (*Crataegus spp.*) are common shrubs that occur regularly in the forested uplands, though it should be noted that hawthorn is also a dominant species in some of the scrub-shrub wetlands in the Study Area. Other shrubs and vines generally found in upland forests include highbush blueberry, European buckthorn (*Rhamnus frangula*), northern arrowwood (*Viburnum dentatum*), and catbrier (*Smilax spp.*). Saplings species of sugar maple (*Acer saccharum*), ash, eastern red cedar, and white pine are also common. The canopy layer of upland forests near lakeshore habitats are dominated by Eastern white pine, oaks, maples, birches, and tulip poplar (*Liriodendron tulipifera*) trees. Grasses and successional species, such as little bluestem (*Schizachyrium scoparium*), fescue (*Festuca rubra*), common mullein (*Verbascum thapsus*), chicory (*Cichorium spp.*), and curly dock (*Rumex crispus*) are common species within open field, meadow, and disturbed sites within the Study Area.

2.4.4 Land Use and Previous Site Disturbances

As briefly described above, the Study Area is predominantly undeveloped but does contain extensive ROW areas, as well as support features for the existing operating power plant units at NMP. Particularly to the south of Lake Road, areas previously used for construction support are now becoming colonized by successional vegetation, and to the north of Lake Road, unused features such as the ballfield are becoming overgrown with similar successional species. Historically, it is believed that the majority of the Study Area was cleared and used as pasture or farmland in the early part of this century. Currently, these areas are occupied by forested upland and wetland as well as scrub-shrub and successional habitats.

3.0 Methodology

Wetland field surveys were conducted by qualified wetland professionals in 2007 and 2008. Areas within and proximate to the Study Area were accessed by foot to ascertain whether wetlands or other potentially sensitive resources were present and to complete delineation and habitat characterization as described below.

Wetland vegetation was identified and inventoried using the methods defined in the 1987 Corps of Engineers' Wetland Delineation Manual. Soils were examined using hand-held soil augers and wetland data transects were conducted at appropriate locations along the wetland/upland boundary to verify vegetation, soil, and hydrology conditions at the wetland boundaries. Areas exhibiting a dominance of wetland vegetation in conjunction with hydric soils or other positive indicators of a wetland hydrologic regime were marked in the field using sequentially numbered surveyors tape.

Wetland naming protocol was completed alphanumerically, starting with series "A" (e.g. A1-A322), and proceeding to series "Z", then using "AA" and so forth. Letters "I," "L,"O," were not used to avoid confusion with numbers, and it is important to note that several series (such as "G", "LL", and a duplicate "KK" series) were included within other major wetland systems, as visible on the plan set in Appendix B. Tables 4-1 and 4-2 provide an overview of the wetland series identifiers, including wetland type, flag numbers used for delineation, and general characteristics.

CT Male Associates, P.C. provided traditional survey services to collect the locations of the wetland flags, and presented the survey data graphically as shown on the plan sheet included as Appendix B of this report. Photographs were taken periodically of the wetland boundary and the wetland interior as presented in Appendix C.

Wetland scientists identified and mapped the wetlands of the Study Area using the procedure defined by the U.S. Army Corps of Engineers' 1987 *Wetlands Delineation Manual.* This is a three-parameter method that uses vegetation, soils and hydrology to identify and delineate wetlands. Wetlands are: *Those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.* (40 CFR 230.3 and 33 CFR 328.3). Application of this method is accepted and appropriate for delineation of wetlands under the U.S. Army Corps regulatory program as well as the DEC freshwater wetland program.

The Corps' Routine Wetland Determination – Large Site approach as described in the Corps' 1987 Wetland Delineation Manual was chosen as the most effective and appropriate method for wetland delineation within the Study Area, and as such was followed strictly for all wetland determination decisions and delineation. This delineation method is appropriate for wetland boundary determination and characterization associated with regulatory permitting with both the U.S. Army Corps and DEC.

4.0 Existing Wetlands and Waterbodies

4.1 Jurisdictional Waterways

Lake Ontario abuts the Study Area on its northern boundary. Lake Ontario is a Traditional Navigable Water of the U.S., and is the only TNW nearby the Study Area.

While the entire Study Area lies within the Salmon-Sandy Watershed, (Hydrologic Unit Code 04140102) surface water drainage from the Study Area is conveyed to Lake Ontario by several separate subwatersheds (see Figures 5 and 6 for Watershed Delineations). Two watershed delineation maps are provided for reference. The first presents data from the National Hydrography Data Set as presented by the USGS. The second provides a site specific watershed delineation illustrating greater accuracy and finer detail than the USGS watershed delineation.

Wetland scientists observed three stream features which are either located within the Study Area, or are contiguous with (downgradient of) wetlands within the Study Area.

The first stream (Lakeview Creek) is a non-navigable relatively permanent water (RPW) which flows from the southeast corner of the Study Area across the Study Area and into Lake Ontario.

The second stream (Stream #2) is a seasonal RPW located on the northern-central portion of the Study Area and flows east to west into Lake Ontario. The parts of Lakeview Creek and Stream #2 within the Study Area are located entirely within freshwater wetlands.

Steam #3 does not fall within the Study Area, but rather lies on the Unit 1 property, and is an unnamed, channelized, and straightened feature with numerous small man-made feeders that drain developed and undeveloped parts of the Unit 1 and Unit 2 properties, as well as wetlands south of Lake Road and east of the Strike Road/transmission line ROW.

Both Stream #2 and #3 flow regularly during the spring, and intermittently in response to precipitation throughout the remainder of the year. As such, both streams are presented herein as Relatively Permanent Waterways (RPWs).

4.2 Jurisdictional Wetland Resource Areas

Wetland delineation within the Study Area revealed numerous wetlands, including wetlands contiguous and hydrologically connected to waterways and other wetlands, as well as several small isolated wetland features. The plan sheet in Appendix B illustrates all wetlands identified within the Study Area. Wetlands mapped by DEC are illustrated with a 100-foot *Adjacent Area,* regulated only by the DEC. The tables included in this section have been prepared specifically to describe the wetlands within the Study Area and present an estimation of which features are subject to Corps jurisdiction.

Table 4-1 presents each of the individual wetlands delineated in the Study Area, and details the flag series identifiers used to mark these areas in the field, their classification under the USFWS Cowardin Classification System, and their approximate distance to the nearest waterway. All wetlands described herein are either a) tributary to Lake Ontario through either Lakeview Creek or the Stream #2 or #3 systems within the Study Area, or b) isolated from any other wetlands or waterways, and are noted as such.

Table 4-1. Wetland Classification and Locations – Nine Mile Point 3 Nuclear Power Plant, Scriba, New York.

Wetland Series	Flag Numbers	Cowardin[a] Classification	Distance to Nearest Waterway
A	A1 to A322	PFO1[b]	Wetland abuts (includes) seasonal RPW Stream #2
AA	AA1 to AA37	PFO1/SS1[c]	Approximately 1,100 feet from Lakeview Creek Approximately 450 feet from abutting Wetland EE/FF
B	B1 to B77	PFO1	Wetland abuts (includes) seasonal RPW Stream #2
BB	BB1 to BB17	PFO1/SS1	Approximately 1,625 feet from Stream #2 Approximately 100 feet from abutting Wetland A
C (isolated)	C1 to C7	POW/EM2[d]	Approximately 1,000 feet from Stream #2 Approximately 125 feet from abutting Wetland A
CC	CC1 to CC19	PSS1[e]	Approximately 1,650 feet from Stream#2 Approximately 100 feet from abutting Wetland A
DDD (isolated)	D1 to D10	PFO1	Approximately 1000 feet from Lakeview Creek Approximately 240 feet from abutting Wetland EE/FF
D (isolated)	D1 to D12	PFO1	Approximately 625 feet from Lakeview Creek Approximately 100 feet from abutting Wetland EE/FF
E[g]	E1 to E25	PFO1	Approximately 500 feet from Lakeview Creek Approximately 300 feet from Wetland EE/FF
EE/FF[g]	EE1 to EE171 FF1 to FF176 GG1 to GG10 ZZ1 to ZZ24	PFO1	Wetland abuts (includes) perennial RPW Lakeview Creek
HH[g]	HH1 to HH8	PFO1	Approximately 1,125 feet from Lakeview Creek Approximately 65 feet from Wetland JJ/WW/XX
HHH (isolated)	HHH1 to HHH 8	PFO1	Approximately 1,000 feet from Lakeview Creek Approximately 90 feet from Wetland GG (part of Wetland EE/FF)
JJ/XX/WW[g]	JJ1 to JJ35 XX1 to XX30 WW1 to WW25 KK1 to KK27 LL1 to LL22	PFO1, PSS1, PEM1	Southwest part of Study Area, northern drainage channel connect to Wetland EE/FF Northern part of wetland abuts (includes) Lakeview Creek, furthest point from waterway is 2,500 feet
KK	KK1 to KK22	PSS1	Approximately 1,000 feet from Wetland EE/FF Approximately 1,000 feet from Lakeview Creek
MM/NN	MM1 to MM63 NN1 to NN10	PSS1	Approximately 1,700 feet from Stream #2 Approximately 300 feet from abutting Wetland A

Wetland Series	Flag Numbers	Cowardin[a] Classification	Distance to Nearest Waterway
PP/QQ/RR/ SS/UU/VV[g]	PP1 to PP28 QQ1 to QQ13 RR1 to RR10 SS1 to SS24 UU1 to UU14 VV1 to VV7	PSS1	Wetland abuts perennial RPW Lakeview Creek
TT/YY	TT1 to TT25 YY1 to YY33	PEM1[f]	Wetland abuts (includes) perennial RPW Lakeview Creek

a: refers to wetland classification system established by the USFWS publication *Classification of Wetlands and Deepwater Habitats of the United States* by Lewis Cowardin, FWS/OBS-79/31.
b: PFO1, palustrine forested broad leaf deciduous wetland
c: PFO1/SS1, palustrine forested/scrub-shrub broad leaf deciduous
d: POW/EM2, palustrine open water/palustrine emergent wetland, non-persistent
e: PSS1, palustrine scrub shrub broad leaved deciduous
f: PEM1, palustrine emergent, persistent
g: NYSDEC-mapped wetland complexes

4.2.1 Wetlands Description

Numerous wetland complexes of varying sizes were delineated within the Study Area, five of which represent state jurisdictional wetlands, and four of which are small isolated wetlands that are not considered to be subject to Corps jurisdiction based upon lack of proximity to other wetlands, disconnection from adjacent habitat, and to a lesser degree their status as man-made or altered features. Table 4-2 provides dominant characteristics of each of the mapped systems within the Study Area.

The wetlands delineated were marked in the field using flag series as shown in Table 4-1. Note that several of the larger wetland complexes are marked using multiple consecutive alphanumeric indicators. It is important to note that there is a large wetland complex (includes Series "EE/FF", "TT/YY", and "UU/VV") that is predominantly forested and similar to the federal wetlands at the northern end of the site, but does include an area of semi-permanently inundated palustrine forested wetland at the southeast corner of the Lake Road/Lakeview Road intersection. This area, dominated by green ash with minimal understory and inundated to depths of up to three feet, represents a habitat not commonly observed in other parts of the Study Area.

Table 4-2 presents each of the individual wetlands delineated, their size and location within the Study Area, and a description of their dominant characteristics. Table 4-3 has been provided to document the hydrologic conditions of each wetland complex, including flow direction, receiving waterbody, and descriptive comments regarding duration of flow, standing water, or surficial soil saturation based upon field observations over the period 2006-2008.

Table 4-2. Wetland Descriptions – Nine Mile Point 3 Nuclear Power Plant, Scriba, New York

Wetland Series	Wetland Acreage and Location in Study Area	Wetland Characteristics
A	34 acres. Northeastern part of Study Area, north of Lake Road, west of Units 1 & 2 access road.	Large forested wetland system dominated by green ash, red maple, and hawthorn. Seasonally inundated, and soils saturated to near surface throughout growing season. Stream #2 is located within wetland system and flows west to Wetland "B."
AA	2 acres. South of Lake Road, immediately east of existing shooting range.	Isolated depressional forested/scrub shrub wetland, dominated by green ash and shrubs such as alder, dogwood, and blueberry. Receives runoff from shooting range and adjacent uplands, and has no obvious outlet or inlet connecting to another wetland system.
B	18 acres. Northwestern part of Study Area with northern boundary on Lake Ontario, north of Lake Road, east of Lake View Road.	Large forested wetland system dominated by green ash, red maple, and hawthorn similar to "A." Also seasonally inundated and/or saturated to surface for most of growing season. Receives stream flow from Stream #2 and discharges through large cobble pile to Lake Ontario at northern end of wetland system.
BB	3 acres. South of Lake Road, northeast of existing shooting range, immediately north of "AA," and due west of the Strike Road.	Same characteristics as "AA," but likely receives runoff flowing under the Strike Road to and/or from "MM" and, therefore, is not isolated.
C (isolated)	0.1 acre. North of Lake Road, just south of existing ball field.	Small isolated depressional wetland, likely man-made, with no inlet or outlet. Predominantly open water but also contains some emergent vegetation such as *Pontedaria* spp.
CC	1 acre. South of Lake Road just east of guard house.	Isolated scrub shrub wetland, densely vegetated by blueberry, winterberry, alder, and similar shrubs. Located in a natural depression receiving road runoff and sheetflow from adjacent developed areas. Connected to Wetland A via a culvert under Lake Road.
D (isolated)	0.3 acre. Immediately north of Lake Road, 750 feet east of Lake Rd/ Lake View Road intersection	Small isolated forested wetland located in natural depression. Dominated by green ash, red maple, and herbaceous cover such as bedstraw (*Gallium* spp.). Saturated to surface and occasionally ponded during growing season.
DDD (isolated)	0.3 acre. South of Lake Road just west of guard house.	Isolated forested wetland located in a natural depression immediately south of Lake Road. Dominated by green ash and red maple with minimal understory away from the wetlands northern edge, which lies at the toe of the Lake Road side slope. A culvert runs north from DDD under Lake Road but does not lead to another wetland resource area.
E	2.4 acres. Immediately east of Lake View Road, 250 feet north of Lake Road.	Green ash dominated palustrine forested wetland system, with discharge via channelized flow west under Lake View Road into wetland tributary to Lakeview Creek leading north to Lake Ontario through bible camp boat basin. Significant inundation at western edge of wetland along road berm during spring and heavy precipitation events. Mapped by DEC.

Wetland Series	Wetland Acreage and Location in Study Area	Wetland Characteristics
EE/FF	42 acres. Extends from southeast corner of Lake Road/ Lakeview Road intersection approx. 3000 feet southeast, but generally west of existing Strike Road and predominantly north of existing National Grid ROW.	Predominantly palustrine forested wetland system with small inclusions of scrub shrub and emergent wetland habitat. Includes 15-20 acre forest wetland habitat at roadway intersection that exhibits standing water to depths up to 3-4 feet. Dominant species include green ash, silky dogwood, and red maple. Perennial stream system (Lakeview Creek) located within wetland, ultimately discharging under Lake Road to the west and then entering large PFO wetland system to southwest of Study Area, which discharges to Lake Ontario ~1/2 mile to the west. Contains "GG" system, isolated from EE/FF by historical fill placement. Mapped by DEC.
HH	0.4 acre. East of Lake View Road, immediately south of National Grid ROW.	Small isolated depressional forested wetland, dominated by green ash and red maple with minimal understory. Receives runoff from Lakeview Road and may intercept groundwater. Mapped by DEC.
HHH (isolated)	0.2 acres. East of Lake View Road, 300 feet east of Wetland HH.	Small isolated depressional forested wetland, dominated by red maple, green ash, winterberry, honeysuckle, and various ferns and herbs. Receive runoff from surrounding uplands, which are relatively flat.
JJ/XX/WW	36.6 acres, partly outside of Study Area. Southwest corner of Study Area, extends west onto Simoneau property.	Mixed cover type wetland with forested, scrub-shrub, and open water marsh components. Small open water and emergent marsh area exists to eastern extent of wetland, formed as a result of railroad berm preventing eastward surface water flow. Densely vegetated scrub shrub wetland, dominated by dogwood, winterberry and herbaceous species such as sensitive fern, goldenrod and hydrophytic grasses. Receives sheet flow from adjacent ROW. Includes drainage ditches along existing RR tracks, dominated by common reed (*Phragmites* spp.). Mapped by DEC
KK	1.6 acres. 50 feet west of Lakeview Road towards southern end of Study Area.	Small depressional scrub shrub wetland, dominated by alder, dogwood, willows (*Salix* spp.) and herbaceous species such as sensitive fern. Receives road runoff and sheetflow from adjacent ROW.
MM/NN	12 acres. South of Lake Road, immediately east of existing Strike Road.	Depressional scrub shrub wetland, dominated by alder, dogwood, willows, and European buckthorn. Receive road runoff and sheetflow from adjacent ROW and existing switchyard. A significant portion of MM/NN extends to the east outside the Study Area.
PP/QQ/RR SS/UU/VV	12.3 acres. Southeast corner of Study Area, flag series represent one large wetland system boundary entering and leaving Study Area over 2,500 feet.	Large scrub shrub wetland, dominated by alder, dogwood, and ash saplings. Connected to large open water wetland with standing dead timber to the east. Includes outlet stream (Lakeview Creek) flowing west into "EE" system. Western extent of this wetland abuts existing Strike Road. Mapped by DEC.
TT/YY	3.4 acres. Southern central part of Study Area, within existing transmission line ROW.	Natural stream system exhibiting intermittent flow, densely vegetated on banks by common reed (*Phragmites* spp.). Connects "EE" with "UU" system, east of railroad ROW. Mapped by DEC.

Table 4-3. Wetland Hydrology Characteristics-Nine Mile Point 3 Nuclear Power Plant, Scriba, New York

Wetland Series	Wetland Hydrologic Characteristics
A	Contains eastern extent of Stream #2, a seasonal waterbody, and an associated open surface water impoundment. Discharges to Stream #2, which discharges to Lake Ontario. Wetlands have saturated soils throughout the spring and most of the summer.
AA	Depressional wetland with a connection (discharge) to Wetland BB during winter/spring flooding. Receives sheetflow from firing range and adjacent areas, but generally contains standing water only during frozen soil conditions when runoff is high and infiltration low. Contains man made channel at northern extent, but this channel has not been observed to contain water or flow during the growing season. Surface soils are saturated briefly in spring and following significant precipitation events.
B	Contains western extent of Stream #2, a seasonal water body, which discharges to Lake Ontario. Wetlands have saturated soils throughout the spring and most of the summer.
BB	Does not contain streams or surface water bodies. Not considered isolated, but expected to have hydrology dominated by groundwater infiltration. Contains flat-set culvert connecting BB to Wetland MM/NN that rarely exhibits significant flow. Surface soils are saturated the majority of the growing season.
C	Isolated wetland without inlet, outlet, or connection to other wetlands. Contains standing water perennially.
CC	Does not contain streams or surface water bodies. Possibly connected during storm events to Wetland A via flow over crest of roadway, or to Wetland BB through flow along roadside depression. Surface soils are saturated in the spring only.
D	Does not contain streams or surface water bodies. Roadside depression leads into wetland from the west, but does not connect to an upgradient wetland or waterbody. Contains standing water during spring and heavy precipitation events.
DDD	Isolated wetland without an inlet or connection to other wetlands. A culvert flows north out of the wetland under Lake Road, but does not connect to any other waterbody. Surface soils are saturated in the spring and part of the summer.
E	Connected to wetlands associated with Lakeview Creek west of Lakeview Road through a culvert crossing. Intermittently contains standing waters alongside Lakeview Road. Assumes that wetland surface water flow enters Lakeview Creek 300 feet to west of culvert and subsequently discharges to Lake Ontario.
EE/FF	Contains Lakeview Creek, a perennial waterway tributary to Lake Ontario, and 3 small intermittent side channels. Culvert crossings occur in 2 locations south of Lake Road as well as under Lakeview Road. There is a wide variation in surficial hydrology condition and soil saturation within the wetland complex throughout the growing season.
HH	Wetland has no inlet or outlet, and is generally hydrologically isolated. Spring flooding may allow connection over adjacent cart road to JJ/XX/WW. Surface soils are saturated in the spring only.
HHH	Small isolated wetland without inlet or defined outlet. Ponding occurs in this wetland from late fall into the spring.
JJ/XX/WW	Eastern part of wetland complex is tributary to Lakeview Creek, and flows in a northerly direction. The western extents of the wetland flow through a culvert under Lakeview Road to another wetland complex, also tributary to Lakeview Creek. Standing water exists in the central part of the wetland perennially.

Wetland Series	Wetland Hydrologic Characteristics
KK	Sheetflow from adjacent uplands and stormwater off of Lakeview Road enter the wetland, and it is assumed that groundwater infiltration and evapotranspiration are the primary hydrologic outputs from KK. Surface soils are saturated in the spring and early summer, and standing water exists in winter and early spring. During the late fall and winter when the ground is frozen, however, this wetland overflows to the east and runs along Lake View Road to connect with Wetlands HH and JJ/XX/WW.
MM/NN	Tributary to Stream #3 through culvert connections under Lake Road. Contains standing water in isolated areas perennially.
PP/*QQ/RR* *SS/UU/VV*	Wetland PP appears to fall with in the eastern watershed in the Study Area, which is tributary to Stream #3, but may be hydrologically isolated with infiltration and evapotranspiration representing the wetland's only hydrologic outputs. Wetlands QQ/RR/SS/UU/VV are tributary through culverts and overland flow to the Lakeview Creek system and western watershed within the Study Area. Wetland SS regularly contains standing water; the remainder of the wetland system demonstrated surficial soil saturation in the spring only.
TT/YY	Contains Lakeview Creek, a perennial waterway tributary to Lake Ontario. Wetland is a narrow riparian corridor with culverts at its northern and southern extents.
Key to Table 4-3 Wetlands tributary to Lakeview Creek (western subwatershed) are shown in italics. Wetlands tributary to Stream #2 are shown in bold text. Wetlands tributary to Stream #3 are underlined. Isolated wetlands are shown in plain text.	

4.2.2 Description of Isolated Wetlands

Wetlands described as isolated within the report are described here in detail to provide additional information to the Corps to aid in determination of the jurisdictional status of these areas. Wetlands C, D, DDD, and HHH are believed to be isolated from all other wetlands and surface water bodies in the Study Area. This text description of each isolated wetland is supplemented by data sheets and photos in Appendices A and C.

All of the wetlands described herein as isolated are small, depressional features. In total, the cumulative size of these wetlands is less than one acre.

Wetland C

Wetland C is the smallest of the wetlands characterized as isolated. It is a man made pond or former borrow pit, approximately 60 feet across and several feet deep. It lies within a forested area near a historic orchard, just south of a former ballfield. Observations of this ponded area during the spring would indicate that it does not overtop its banks and that infiltration to groundwater is the only direct hydrologic output of the wetland.

Wetland D

Wetland D is a small wetland located on the north side of Lake Road. Flow enters the wetland from a grassy swale along the roadside to the west of the wetland, and assumedly from sheetflow off of the adjacent uplands. The wetland may have been a part of the EE/FF system prior to the construction of Lake Road, or it may exist because Lake Road prevents the area from draining to the south naturally. In the spring, maximum water elevations approach the height of Lake Road but do not overtop the road. No connections from Wetland D to other wetlands or waterbodies have been observed.

Wetland DDD

Wetland DDD was re-flagged in September 2008 to more accurately depict the size and location of this wetland. The hydrologic inputs to this wetland are similar to those of Wetland D, namely sheetflow and stormwater runoff from Lake Road. There is an outlet culvert leading to uplands located north of Lake Road, and discharge from Wetland DDD spreads out and infiltrates over a large densely vegetated flat area.

This wetland is relatively small (less than a quarter-acre) and is due south of a relatively large forested area of upland characterized by a dominance of facultative (FAC) species. This area was investigated and does not exhibit requisite hydric soil features (low chroma soils with redoximorphic features) needed to make a positive wetland determination.

Wetland HHH

Wetland HHH is a small isolated depression located 300' east of Wetland HH. This wetland receives and holds runoff from surrounding uplands, which have little topographic relief. Wetland HHH was mapped during the investigation of several areas marked with wetland symbols in the southeast part of the Study Area. These markings are put on the project base plan by the original surveyor, and indicate the presence (reflection) of water observed during aerial photogrammetry which is flown during the winter. Most of these features do hold ponded water in the winter, but do not show requisite wetland characteristics of a (3-parameter) wetland. Wetland HHH does, however, show wetland hydrophytes, hydric soils, and wetland hydrology and therefore has been flagged and surveyed to allow its presentation on project plans.

5.0 Summary

The Study Area investigated and presented in this report contains one perennial RPW (Lakeview Creek) and one seasonal RPW (Stream #2) and approximately 169.6 acres of freshwater wetlands. An additional RPW (Stream #3) exists outside of the Study Area to the east and receives drainage from some of the wetlands within the Study Area. All of these wetlands and streams, except the small isolated wetlands "C", "D", "DD", and "HHH", are considered to be "jurisdictional" under the U.S. Army Corps' Regulatory Program, and direct alteration of these areas may not proceed without a permit endorsed by the U.S. Army Corps.

The graphics and plan sheets included within this report demonstrate the locations and boundaries of the onsite (jurisdictional) wetlands, and the text and data sheets included herein provide a description of the dominant characteristics and diagnostic features.

NMP3LLC respectfully requests that the Corps provide confirmation of the appropriate classification and boundaries of the wetlands within the Study Area.

6.0 References

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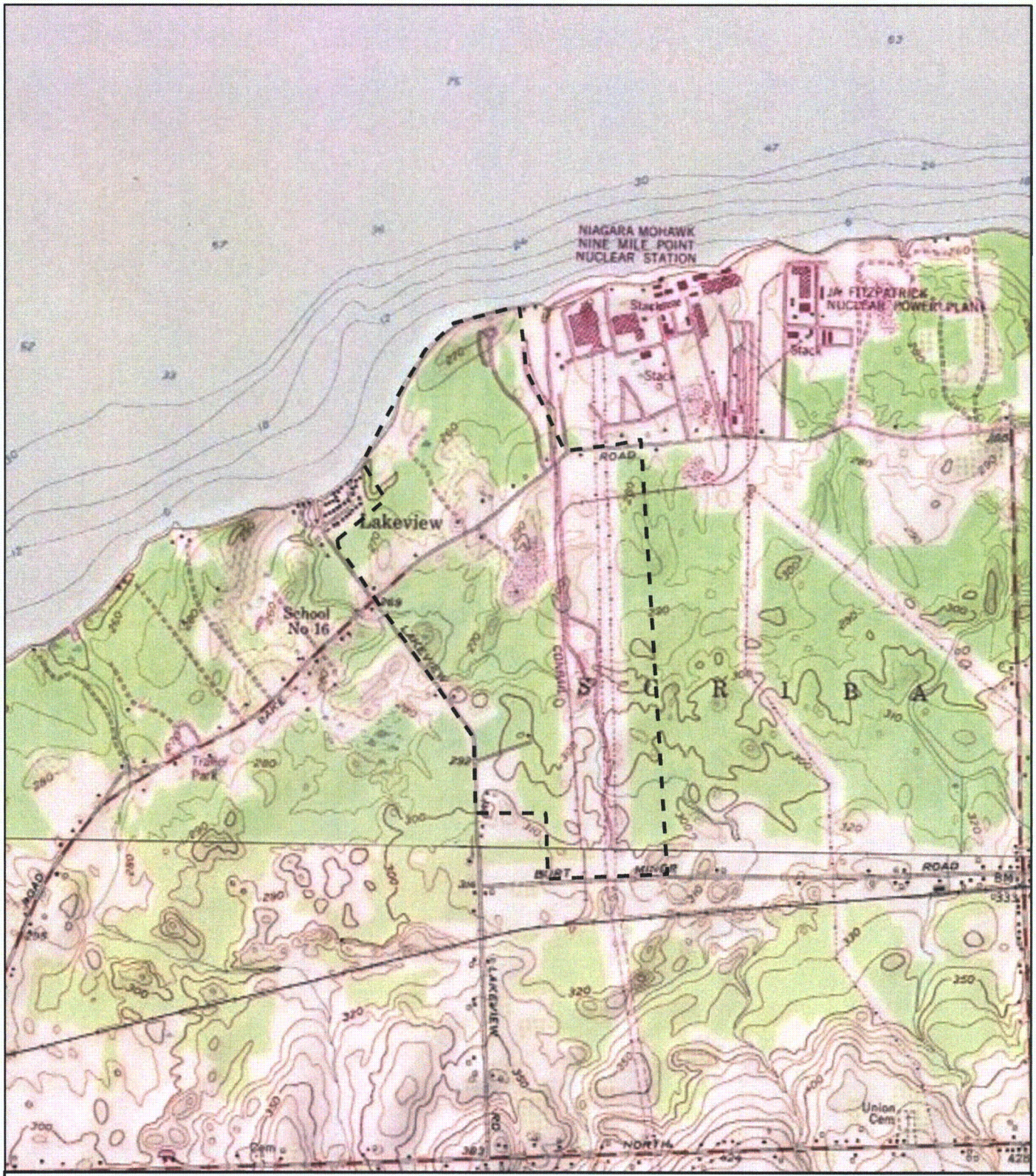
Figures

April 2009



NYGIS: USGS Topographic Maps (2000)
Oswego East and West of Texas

N

Meters
0 670 1,340

Feet
0 2,000 4,000

Site Locus

UniStar Nuclear Development, LLC
Scriba, New York

SCALE	DATE	PROJECT NO.
1:24000	12/08	01878-113

ENSR | AECOM

Figure Number

1

J:\Water\ProjectFiles\P10\01878_Constellation\113-Scriba\GIS\Projects\WetlRpt_Fig1_USGS.mxd

NYGIS: Orthophotography (2006)
Oswego East and West of Texas

N

Meters
0 400 800

Feet
0 1,200 2,400

Aerial Site Locus

UniStar Nuclear Development, LLC
Scriba, New York

SCALE	DATE	PROJECT NO.
1:14400	12/08	01878-113

ENSR | AECOM

Figure Number

2

J:\Water\ProjectFiles\P10\01878_Constellation\113-Scriba\GIS\Projects\WetlRpt_Fig2_aerial.mxd

NYGIS: Orthophotography (2006)
Oswego East and West of Texas

N

Meters
0 400 800

Feet
0 1,200 2,400

DEC Freshwater Wetlands

UniStar Nuclear Development, LLC
Scriba, New York

SCALE	DATE	PROJECT NO.
1:14400	12/08	01878-113

ENSR | AECOM

Figure Number

3

J:\Water\ProjectFiles\P10\01878_Constellation\113-Scriba\GIS\Projects\WetlRpt_Fig3_wetlands.mxd

NYGIS: Orthophotography (2006)
Oswego East and West of Texas

N

Meters
0 375 750

Feet
0 1,200 2,400

NRCS Soils Profile Map

UniStar Nuclear Development, LLC
Scriba, New York

SCALE	DATE	PROJECT NO.12
1:14400	12/08	01878-113

ENSR | AECOM

Figure Number

4

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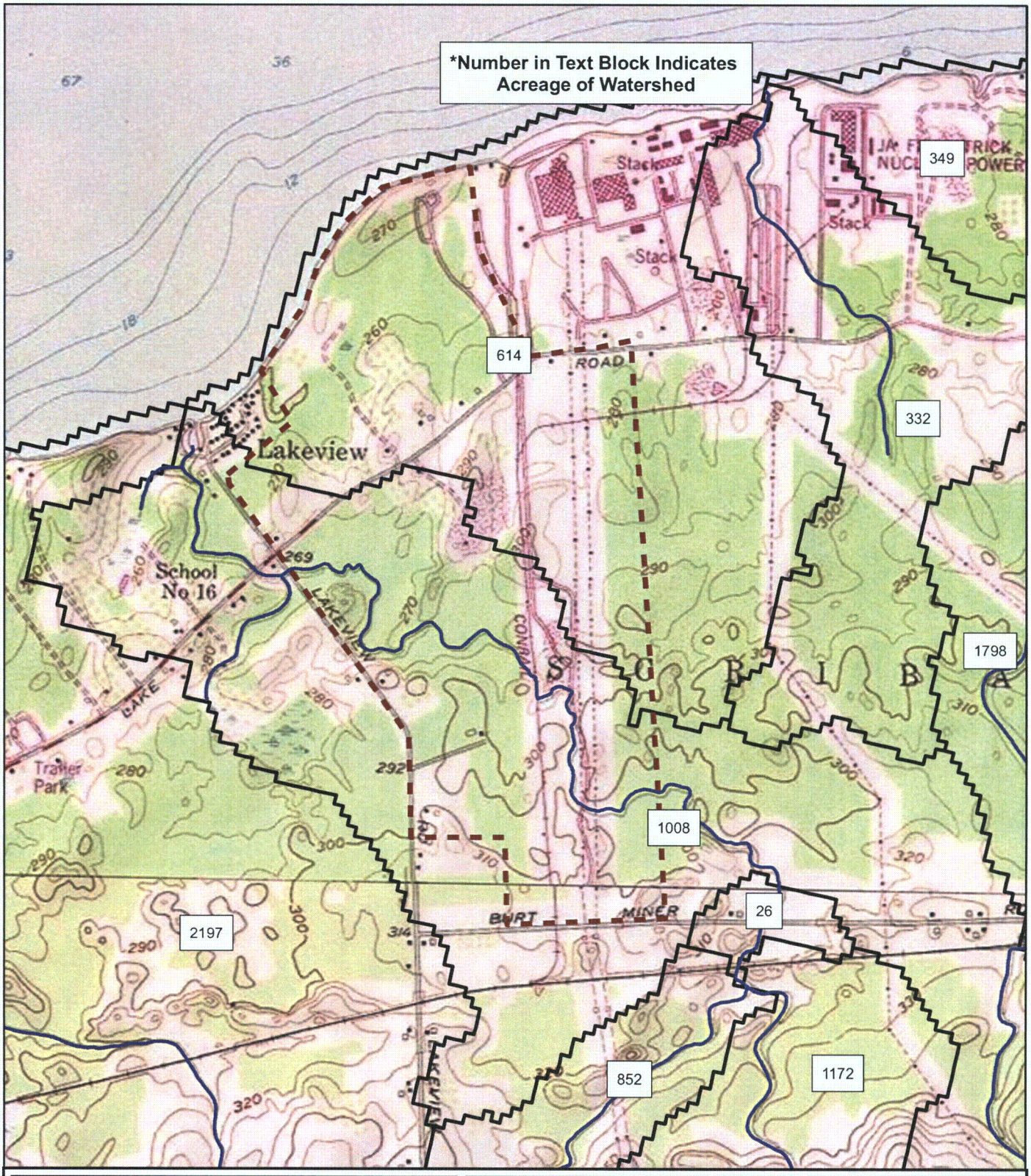

Watershed Delineations

UniStar Nuclear Development, LLC
Scriba, New York

SCALE	DATE	PROJECT NO.
1:1500	12/08	01878-113

ENSR | AECOM

Figure Number

5

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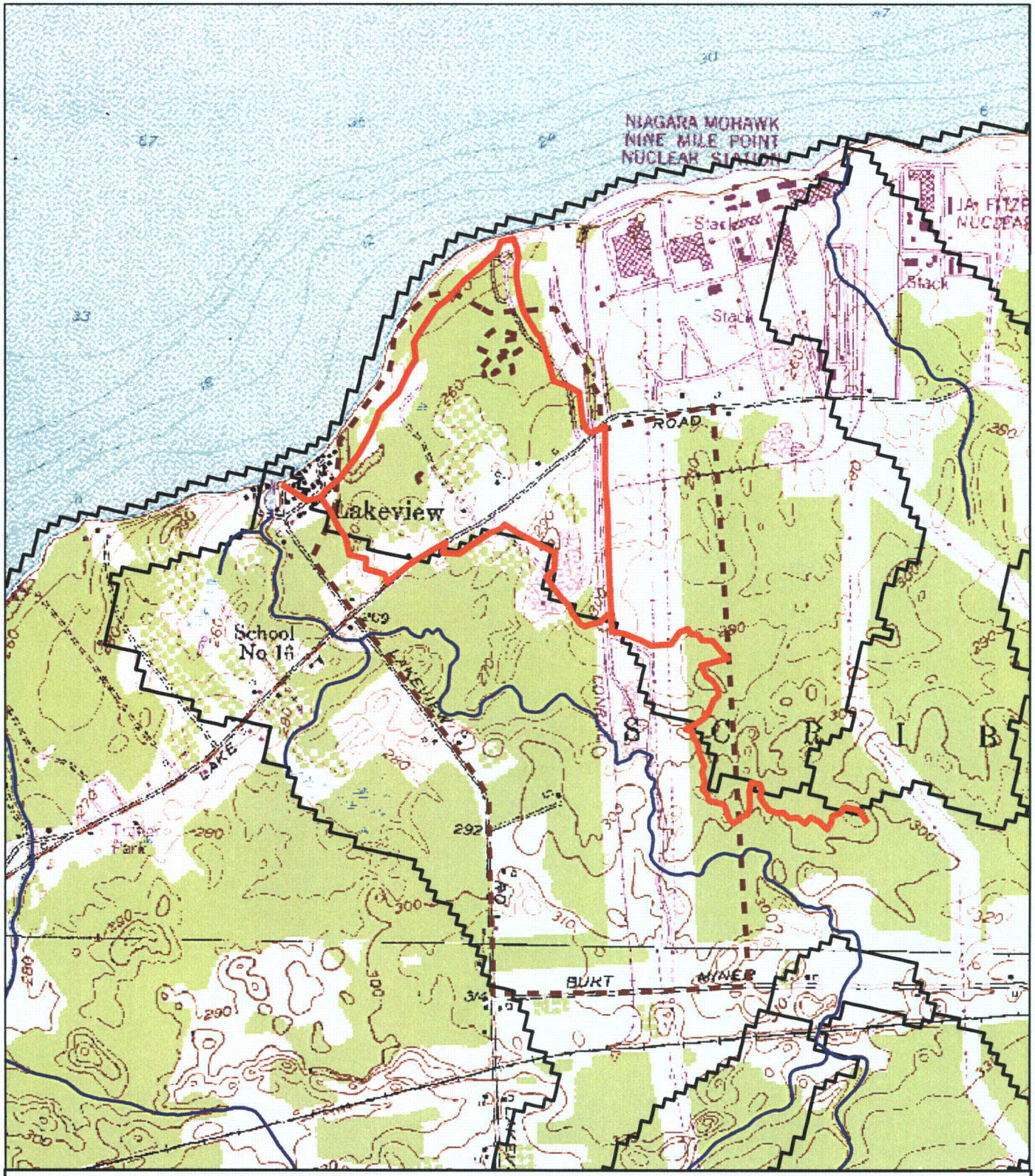

Site Specific Watershed

Streams (NY DEC)

Study Area

National Hydrography Catchments (2004)

N

0 1,500 3,000 Feet

Site Specific Watershed Delineation

UniStar Nuclear Development, LLC
Scriba, New York

SCALE	DATE	PROJECT NO.
1:1500	6/08	01878-113

ENSR | AECOM

Figure Number

6

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NYGIS: USGS Topographic Maps (2000)

Appendix A

Wetland Delineation Data Sheets

April 2009

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No		
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Transect ID:	AT1 Upl
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐ Yes	☒ No	Plot ID:	WF# A250

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Malus spp.	Tree	NI	8			
2	Quercus veluntina	Shrub	NI	9			
3	Acer sacchurum	Shrub	FACU-	10			
4				11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Upland Vegetation

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
  - ☐ Stream, Lake, or Tide Gauge
  - ☒ Aerial Photographs
  - ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: _____ (In.)
- Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines *(w/in 50')*
- ☐ Sediment Deposits
- ☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: No indicators of wetland hydrology
Recorded data: DEC Wetland mapping

SOILS

Map Unit Name (Series and Phase): Ira gravelly fine sandy loam (IrC)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Typic Fraguidepts

Drainage Class: Moderately well drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-10	A	10YR 4/3	10YR 4/4	Few/medium	Fine sandy loam
11-16	Bh	10YR 5/3	10YR 5/6	common/small	Fine sandy loam

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks: Refusal encountered @ 14"

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes	☒ No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes	☒ No	
Hydric Soils Present?	☒ Yes	☐ No	

Remarks: Confirmed upland habitat.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	☐	Yes	☒	No	Transect ID: AT1 Wet
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐	Yes	☒	No	Plot ID: WF# A250

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC	8			
2	Fraxinus pennsylvanica	Tree	FACW	9			
3	Crataegus phaenopyrum	Shrub	FAC	10			
4	Acer rubrum	Shrub	FAC	11			
5	Fraxinus pennsylvanica	Shrub	FACW	12			
6	Toxicodendron radicans	Herb	FAC	13			
7	Carex spp.	Herb	NI	14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
  - ☐ Stream, Lake, or Tide Gauge
  - ☒ Aerial Photographs
  - ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: _____ (In.)
- Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 inches
- ☒ Water Marks
- ☒ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12"
- ☒ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: Recorded data: DEC Wetland mapping

SOILS

Map Unit Name (Series and Phase):	Scriba very stony soils (SdB)	Drainage Class:	Somewhat poorly drained
Taxonomy (Subgroup):	Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts	Field Observations Confirm Mapped Type?	Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-9	Ap	10YR 2/2	None	None	Fine sandy loam
11-13	B	10YR 4/2	10YR 5/6	Common/small	Fine sandy loam

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☒ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks: Evidence of historic human disturbance in first 9". Refusal @13"

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒	Yes	☐	No	Is this Sampling Point Within a Wetland?	☒	Yes ☐ No
Wetland Hydrology Present?	☒	Yes	☐	No			
Hydric Soils Present?	☒	Yes	☐	No			

Remarks: Confirmed palustrine forested wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No		
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Transect ID:	AT2 Upl
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐ Yes	☒ No	Plot ID:	WF# A131

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Populus tremuloides	Shrub	NI	8			
2	Taraxacum officinale	Herb	FACU	9			
3	Fescue spp.	Herb	NA	10			
4				11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Upland Vegetation

HYDROLOGY

☐ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: _____ (In.)
Depth to Free Water in Pit: _____ (In.)
Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated in Upper 12 inches
☐ Water Marks
☐ Drift Lines *(w/in 50')*
☐ Sediment Deposits
☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: No indicators of wetland hydrology

SOILS

Map Unit Name (Series and Phase): Ira gravelly fine sandy loam (IrC)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Typic Fraguidepts

Drainage Class: Moderately well drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-10	A	10YR 3/3			Fine sandy loam
10-14	B	10YR 4/3			Fine sandy loam

Hydric Soil Indicators:
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquatic Moisture Regime
☐ Reducing Conditions
☐ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: Refusal encountered @ 14"
Evidence of Fill in this area

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes	☒ No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes	☒ No	
Hydric Soils Present?	☐ Yes	☒ No	

Remarks: Confirmed upland habitat.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No		
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Transect ID:	AT2 Wet
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐ Yes	☒ No	Plot ID:	WF# A131

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Cornus amomum	Shrub	FACW	8			
2	Salix discolor	Shrub	FACW	9			
3	Aster novi-belgii	Herb	FACW+	10			
4	Lythrum salicaria	Herb	FACW+	11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
  - ☐ Stream, Lake, or Tide Gauge
  - ☒ Aerial Photographs
  - ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: _____ (In.)
- Depth to Saturated Soil: 1 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☒ Saturated in Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☒ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☒ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: Recorded data: DEC Wetland mapping

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-6	Ap	10YR 2/2	None	None	Fine sandy loam
6-15	B	10YR 2/1	10YR 4/3	Few/large	Fine sandy loam w/gravel

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			

Remarks: Confirmed palustrine forested/scrub-shrub wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No		
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Transect ID:	AT3 Upl
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐ Yes	☒ No	Plot ID:	WF# A94

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Fraxinus pennsylvanica	Tree	FACW	8			
2	Prunus pensylvanica	Tree	FACU-	9			
3	Rhamnus cathartica	Shrub	NI	10			
4	Cornus amomum	Shrub	FACW	11			
5	Solidago spp.	Herb	NA	12			
6	Prunus serotina	Herb	FACU	13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 50%

Remarks:

HYDROLOGY

☐ Recorded Data (describe in Remarks)
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: _____ (In.)
- Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines *(w/in 50')*
- ☐ Sediment Deposits
- ☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: No indicators of wetland hydrology

SOILS

Map Unit Name (Series and Phase): Ira gravelly fine sandy loam (IrC)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Typic Fraguidepts

Drainage Class: Moderately well drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-8	Ap	10YR 3/2	10YR 4/4	Common/small	Fine sandy loam
10-14	B	10YR 4/3	10YR 4/4	Common/small	Fine sandy loam

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks: Refusal encountered @ 14"
Trace coarse sand

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes	☒ No	
Hydric Soils Present?	☐ Yes	☒ No	

Remarks: Confirmed upland habitat.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	☐	Yes	☒	No	Transect ID: AT3 Wet
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐	Yes	☒	No	Plot ID: WF# A94

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Fraxinus pennsylvanica	Tree	FACW	8			
2	Prunus pensylvanica	Tree	FACU-	9			
3	Fraxinus pennsylvanica	Shrub	FACW	10			
4	Prunus serotina	Shrub	FACU	11			
5	Crataegus phaenopyrum	Shrub	FAC	12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 60%

Remarks:

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
- ☐ Stream, Lake, or Tide Gauge
- ☒ Aerial Photographs
- ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: 6 (In.)
- Depth to Free Water in Pit: 20 (In.)
- Depth to Saturated Soil: 8 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines *(w/in 50')*
- ☐ Sediment Deposits
- ☒ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☒ Oxidized Root Channels in Upper 12"
- ☒ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: Recorded data: DEC Mapping

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-3	Ap	10YR 2/2	10YR 4/4	Few/small	Fine sandy loam
10-14	B	10YR 4/1	10YR 4/6	Common/small	Fine sandy loam

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks: Refusal encountered @ 14"
Trace coarse sand

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒	Yes	☐	No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present?	☒	Yes	☐	No	
Hydric Soils Present?	☒	Yes	☐	No	

Remarks: Palustrine forested wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☐ Yes	☒ No		
Is the site significantly disturbed (Atypical Situation)?	☒ Yes	☐ No	Transect ID:	BB1 Upl
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☒ Yes	☐ No	Plot ID:	WF# BB14

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Unknown grass	Herb	NA	8			
2	Ambrosia vulgaris	Herb	FACU	9			
3				10			
4				11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Disturbed area.

HYDROLOGY

☐ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: _____ (In.)
Depth to Free Water in Pit: _____ (In.)
Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated in Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: No indicators of hydrology

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-18	Fill	10YR 3/4	None	None	Fill material

Hydric Soil Indicators:
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquatic Moisture Regime
☐ Reducing Conditions
☐ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: Fill area

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes	☒ No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes	☒ No	
Hydric Soils Present?	☐ Yes	☒ No	

Remarks:

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No		
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Transect ID:	BB1 Wet
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐ Yes	☒ No	Plot ID:	WF# BB14

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Tree	FAC	8			
2	Fraxinus pennsylvanica	Tree	FACW	9			
3	Cornus sericea	Shrub	FACW+	10			
4	Salix discolor	Shrub	FACW	11			
5	Fraxinus pennsylvanica	Shrub	FACW	12			
6	Solidago rugosa	Herb	FAC	13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
  - ☐ Stream, Lake, or Tide Gauge
  - ☒ Aerial Photographs
  - ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: 0-2 (In.)
- Depth to Free Water in Pit: 0 (In.)
- Depth to Saturated Soil: 0 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☒ Inundated
- ☒ Saturated in Upper 12 inches
- ☒ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12"
- ☒ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: Recorded data: DEC wetland mapping

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A	10YR 2/1	None	None	Fine sandy loam
3-18	B	10YR 3/3	10YR 4/4	Common/medium	

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes	☐ No		
Hydric Soils Present?	☒ Yes	☐ No		

Remarks: Confirmed palustrine forested/scrub-shrub wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

					Community ID:	
Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Transect ID:	ET1 Upl
Is the site significantly disturbed (Atypical Situation)?	☐	Yes	☒	No	Plot ID:	WF# E13
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐	Yes	☒	No		

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Prunus serotina	Tree	FACU	8			
2	Malus spp.	Tree	NI	9			
3	Prunus serotina	Shrub	FACU	10			
4	Parthenocissus quinquefolia	Herb	FACU	11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Upland Vegetation

HYDROLOGY

☐ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: _____ (In.)
Depth to Free Water in Pit: _____ (In.)
Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated in Upper 12 inches
☐ Water Marks
☐ Drift Lines *(w/in 50')*
☐ Sediment Deposits
☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: No indicators of wetland hydrology

SOILS

Map Unit Name (Series and Phase): Ira gravelly fine sandy loam (IrC)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Typic Fraguidepts

Drainage Class: Moderately well drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-11	Ap	10YR 3/3	None	None	Fine sandy loam
11-16	Bh	10YR 4/2	10YR 6/4	Few/small	Fine sandy loam

Hydric Soil Indicators:
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquatic Moisture Regime
☐ Reducing Conditions
☐ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: Evidence of historic human disturbance in first 11". Refusal encountered @ 16"

WETLAND DETERMINATION

					Is this Sampling Point Within a Wetland?			
Hydrophytic Vegetation Present?	☐	Yes	☒	No		☐	Yes	☒ No
Wetland Hydrology Present?	☐	Yes	☒	No				
Hydric Soils Present?	☐	Yes	☒	No				

Remarks: Confirmed upland habitat.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

					Community ID:	
Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Transect ID:	ET1 Wet
Is the site significantly disturbed (Atypical Situation)?	☐	Yes	☒	No	Plot ID:	WF# E13
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐	Yes	☒	No		

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Acer saccharum	Tree	FACU-	8			
2	Fraxinus pennsylvanica	Tree	FACW	9			
3	Prunus serotina	Shrub	FACU	10			
4	Populus tremuloides	Shrub	NI	11			
5	Fraxinus pennsylvanica	Shrub	FACW	12			
6	Parthenocissus quinquefolia	Herb	FACU	13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 40%

Remarks:

HYDROLOGY

☐ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: _____ (In.)
Depth to Free Water in Pit: _____ (In.)
Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated in Upper 12 inches
☒ Water Marks
☒ Drift Lines *(w/in 50')*
☐ Sediment Deposits
☒ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: Moist soil conditions

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-11	Ap	10YR 4/2	None	None	Fine sandy loam
11-14	B/C_1	10YR 5/2	10YR5/6	Common/medium	Sand and gravel
14-20	B/C_2	10YR 5/2	10YR 4/6	Few/small	Sand and gravel
			10YR 7/4	Common/large	

Hydric Soil Indicators:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☒ Aquatic Moisture Regime
☐ Reducing Conditions
☒ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: Evidence of historic human disturbance in first 11"

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐	Yes	☒	No	Is this Sampling Point Within a Wetland?	☒	Yes	☐ No
Wetland Hydrology Present?	☒	Yes	☐	No				
Hydric Soils Present?	☒	Yes	☐	No				

Remarks: Confirmed palustrine forested wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☐ Yes	☒ No		
Is the site significantly disturbed (Atypical Situation)?	☒ Yes	☐ No	Transect ID:	MMT1 Upl
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☒ Yes	☐ No	Plot ID:	WF# MM34

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Festuca spp.	Herb	NA	8			
2	Fragaria vesca	Herb	NI	9			
3				10			
4				11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks: Cannot accurately determine wetland conditions based upon vegetation. Area has been altered by mowing activities.

HYDROLOGY

☐ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: _____ (In.)
Depth to Free Water in Pit: 0 (In.)
Depth to Saturated Soil: 18 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated in Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: Rain event within past 2 days.
No evidence of hydrology.

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-18	Fill	10YR 4/3	None	None	Sand and gravel fill

Hydric Soil Indicators:
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquatic Moisture Regime
☐ Reducing Conditions
☐ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: Disturbed fill conditions with no evidence of hydric indicators.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes	☒ No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐ Yes	☒ No	
Hydric Soils Present?	☐ Yes	☒ No	

Remarks: Altered conditions exist in this area.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	☐	Yes	☒	No	Transect ID: MMT1 Wet
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐	Yes	☒	No	Plot ID: WF# MM34

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Cornus sericea	Shrub	FACW+	8			
2	Salix discolor	Shrub	FACW	9			
3	Onoclea sensibilis	Herb	FACW	10			
4	Typha latifolia	Herb	OBL	11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Palustrine scrub-shrub wetland

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
  - ☐ Stream, Lake, or Tide Gauge
  - ☒ Aerial Photographs
  - ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: 0 (In.)
- Depth to Saturated Soil: 0 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☒ Saturated in Upper 12 inches
- ☒ Water Marks
- ☒ Drift Lines
- ☒ Sediment Deposits
- ☒ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☒ Oxidized Root Channels in Upper 12"
- ☒ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: Recorded data: DEC Wetland mapping

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 4/1	None	None	Fine sandy loam
4-18	B	10YR 3/2	10YR 5/6	Common/medium	Fine sandy loam

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

					Is this Sampling Point Within a Wetland?			
Hydrophytic Vegetation Present?	☒	Yes	☐	No		☒	Yes	☐ No
Wetland Hydrology Present?	☒	Yes	☐	No				
Hydric Soils Present?	☒	Yes	☐	No				

Remarks: Confirmed palustrine scrub-shrub wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☐ Yes	☒ No		
Is the site significantly disturbed (Atypical Situation)?	☒ Yes	☐ No	Transect ID:	RR1 Upl
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☒ Yes	☐ No	Plot ID:	WF# RR10

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Euthamia galetorum	Herb	FAC	8			
2	Rubus spp.	Herb	NA	9			
3				10			
4				11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

☐ Recorded Data (describe in Remarks)
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: _____ (In.)
- Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	Fill	10YR 2/2	None	None	Sand & gravel fill
4-18	Fill	10YR 5/2	None	None	Sand & gravel fill

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks: No hydric soil indicators.

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☐ Yes	☒ No
Wetland Hydrology Present?	☐ Yes	☒ No			
Hydric Soils Present?	☐ Yes	☒ No			

Remarks: Disturbed fill conditions

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No		
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Transect ID:	RR1 Wet
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐ Yes	☒ No	Plot ID:	WF# RR10

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Salix discolor	Shrub	FACW	8			
2	Cornus amomum	Shrub	FACW+	9			
3	Viburnum dentatum	Shrub	FAC	10			
4	Rubus sp.	Shrub	NA	11			
5	Onoclea sensibilis	Herb	FACW	12			
6	Solidago rugosa	Herb	FAC	13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks:

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
  - ☐ Stream, Lake, or Tide Gauge
  - ☒ Aerial Photographs
  - ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: _____ (In.)
- Depth to Saturated Soil: 11 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☒ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: Recorded data: DEC wetland mapping

SOILS

Map Unit Name (Series and Phase):	Scriba very stony soils (SdB)	Drainage Class:	Somewhat poorly drained
Taxonomy (Subgroup):	Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts	Field Observations Confirm Mapped Type?	Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-5	Ap	10YR 2/2	None	None	Fine sandy loam
3-18	B	10YR 5/2	10YR 4/4	Common/small	Fine sandy loam

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			

Remarks: Confirmed palustrine scrub-shrub wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

					Community ID:	
Do Normal Circumstances exist on the site?	☐	Yes	☒	No	Transect ID:	TT1 Upl
Is the site significantly disturbed (Atypical Situation)?	☒	Yes	☐	No	Plot ID:	WF# TT25
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☒	Yes	☐	No		

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Rhus typhina	Shrub	NI	8			
2	Viola pedata	Herb	UPL	9			
3	Rubus sp.	Herb	NA	10			
4	Ambrosia vulgaris	herb	FACU	11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks:

HYDROLOGY

☐ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: _____ (In.)
Depth to Free Water in Pit: _____ (In.)
Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated in Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: No indicators of hydrology

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-18	Fill	10YR 3/3	None	None	Rocky fill w/ interstitial

Hydric Soil Indicators:

☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquatic Moisture Regime
☐ Reducing Conditions
☐ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: No hydric soil indicators.

WETLAND DETERMINATION

					Is this Sampling Point Within a Wetland?			
Hydrophytic Vegetation Present?	☐	Yes	☒	No		☐	Yes	☒ No
Wetland Hydrology Present?	☐	Yes	☒	No				
Hydric Soils Present?	☐	Yes	☒	No				

Remarks: Disturbed fill conditions

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No		
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Transect ID:	TT1 Wet
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐ Yes	☒ No	Plot ID:	WF# TT25

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Alnus rugosa	Shrub	FACW	8			
2	Cornus sericea	Shrub	FACW+	9			
3	Viola pedata	Herb	FACU	10			
4	Onoclea sensilis	Herb	FACW	11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 75%

Remarks:

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
  - ☐ Stream, Lake, or Tide Gauge
  - ☒ Aerial Photographs
  - ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: _____ (In.)
- Depth to Saturated Soil: 4 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☒ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☒ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: Recorded data: DEC wetland mapping

SOILS

Map Unit Name (Series and Phase): Scriba gravelly fine sandy loam (ScB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	Ap_1	10YR 3/1	None	None	Fine sandy loam
4-13	Ap_2	10YR 4/1	10YR 4/4	Common/large	Fine sandy loam

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks: Refusal @13"

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes ☐ No
Wetland Hydrology Present?	☒ Yes	☐ No		
Hydric Soils Present?	☒ Yes	☐ No		

Remarks: Confirmed palustrine emergent wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	☐	Yes	☒	No	Transect ID: XXT1 Upl
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐	Yes	☒	No	Plot ID: WF# XX4

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Shrub	FAC	8			
2	Rhus typhina	Shrub	UPL	9			
3	Phalaris arundinacea	Herb	FACW	10			
4	Aster sp.	Herb	FAC	11			
5	Rubus sp.	Herb	UPL	12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 60%

Remarks: Vegetation is dominated by wetland species

HYDROLOGY

☐ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: _____ (In.)
Depth to Free Water in Pit: _____ (In.)
Depth to Saturated Soil: 20" (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated in Upper 12 inches
☐ Water Marks
☐ Drift Lines *(w/in 50')*
☐ Sediment Deposits
☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: No indicators of wetland hydrology

SOILS

Map Unit Name (Series and Phase): Ira gravelly fine sandy loam (IrC)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Typic Fraguidepts

Drainage Class: Moderately well drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-12	Ap	10YR 2/1	None	None	Fine sandy loam
12-20	B	10YR 3/3	None	None	Fine sandy loam

Hydric Soil Indicators:
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquatic Moisture Regime
☐ Reducing Conditions
☐ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: Refusal encountered @ 22"
No hydric soil indicators

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒	Yes	☐	No	Is this Sampling Point Within a Wetland?	☐	Yes
Wetland Hydrology Present?	☐	Yes	☒	No		☒	No
Hydric Soils Present?	☐	Yes	☒	No			

Remarks: Confirmed upland habitat.

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	☐	Yes	☒	No	Transect ID: XXT1 Wet
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐	Yes	☒	No	Plot ID: WF# XX4

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Cornus amomum	Shrub	FACW	8			
2	Phalaris arundinacea	Herb	FACW	9			
3				10			
4				11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Palustrine emergent wetland

HYDROLOGY

- ☒ Recorded Data (describe in Remarks)
- ☐ Stream, Lake, or Tide Gauge
- ☒ Aerial Photographs
- ☐ Other
- ☐ No recorded data available

Field Observations:
- Depth of Surface Water: _____ (In.)
- Depth to Free Water in Pit: _____ (In.)
- Depth to Saturated Soil: 5 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☒ Saturated in Upper 12 inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☒ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
- ☒ Oxidized Root Channels in Upper 12"
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (explain in remarks)

Remarks: Recorded data: DEC Wetland mapping

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? Yes

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-8	Ap	10YR 2/1	None	None	Fine sandy loam
8-24	B	10YR 4/2	10YR 3/6	Common/large	Sandy loam

Hydric Soil Indicators:
- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquatic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ Organic Streaking in Sandy Soils
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Listed on National Hydric Soils List
- ☐ Listed on Local Hydric Soils List
- ☐ Other (explain in remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒	Yes	☐	No	Is this Sampling Point Within a Wetland?	☒	Yes ☐ No
Wetland Hydrology Present?	☒	Yes	☐	No			
Hydric Soils Present?	☒	Yes	☐	No			

Remarks: Confirmed palustrine emergent wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	David Klinch	State:	New York

Do Normal Circumstances exist on the site?	☒	Yes	☐	No	Community ID:
Is the site significantly disturbed (Atypical Situation)?	☐	Yes	☒	No	Transect ID: ZZ1 Upl
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐	Yes	☒	No	Plot ID: WF# ZZ15

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Fagus grandifolia	Tree	FACU	8			
2	Fagus grandifolia	Shrub	FACU	9			
3	Acer saccharum	Shrub	FACU	10			
4				11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 0%

Remarks:

HYDROLOGY

☐ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☐ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: _____ (In.)
Depth to Free Water in Pit: _____ (In.)
Depth to Saturated Soil: _____ (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☐ Inundated
☐ Saturated in Upper 12 inches
☐ Water Marks
☐ Drift Lines
☐ Sediment Deposits
☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: No indicators of hydrology

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A	10YR 2/2	None	None	Sand and gravel
4-20	B	10YR 5/6	None	None	Sand and gravel

Hydric Soil Indicators:
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquatic Moisture Regime
☐ Reducing Conditions
☐ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: No hydric soil indicators

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐	Yes	☒	No	Is this Sampling Point Within a Wetland? ☐ Yes ☒ No
Wetland Hydrology Present?	☐	Yes	☒	No	
Hydric Soils Present?	☐	Yes	☒	No	

Remarks: Confirmed palustrine forested/scrub-shrub wetland

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site:	Nine Mile Point Facility	Date:	07/12/07
Applicant/Owner:	Constellation Energy, Inc.	County:	Oswego County
Investigator:	Dave Klinch & Shae Birkey	State:	New York

			Community ID:	
Do Normal Circumstances exist on the site?	☒ Yes	☐ No	Transect ID:	ZZT1 Wet
Is the site significantly disturbed (Atypical Situation)?	☐ Yes	☒ No	Plot ID:	WF# ZZ15
Is Area a Potential Problem Area? *(if needed, explain on reverse)*	☐ Yes	☒ No		

VEGETATION

	Dominant Plant Species	Stratum	Indicator		Dominant Plant Species	Stratum	Indicator
1	Acer rubrum	Shrub	FAC	8			
2	Betula alleghaniensis	Shrub	FAC	9			
3	Acer saccharum	Shrub	FACU	10			
4	Populus deltoides	Shrub	FAC	11			
5				12			
6				13			
7				14			

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 75%

Remarks:

HYDROLOGY

☒ Recorded Data (describe in Remarks)
☐ Stream, Lake, or Tide Gauge
☒ Aerial Photographs
☐ Other
☐ No recorded data available

Field Observations:
Depth of Surface Water: 0-12 (In.)
Depth to Free Water in Pit: 0 (In.)
Depth to Saturated Soil: 0 (In.)

Wetland Hydrology Indicators:

Primary Indicators:
☒ Inundated
☒ Saturated in Upper 12 inches
☒ Water Marks
☒ Drift Lines
☒ Sediment Deposits
☐ Drainage Patters in Wetlands

Secondary Indicators (2 or more required):
☐ Oxidized Root Channels in Upper 12"
☐ Water-Stained Leaves
☐ Local Soil Survey Data
☐ FAC-Neutral Test
☐ Other (explain in remarks)

Remarks: Recorded data: DEC wetland mapping

SOILS

Map Unit Name (Series and Phase): Scriba very stony soils (SdB)
Taxonomy (Subgroup): Coarse-loamy, mixed, active, mesic Aeric Fragiaquepts

Drainage Class: Somewhat poorly drained
Field Observations Confirm Mapped Type? No

Profile Description:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Redoximorphic Feature Colors (Munsell Moist)	Redoximorphic Feature Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-3	A	10YR 2/2	None	None	
3-18	B	10YR 3/2	10YR 4/6	Few/medium	
18+	B/C	10YR 4/2	10YR 4/6	Few/medium	

Hydric Soil Indicators:
☐ Histosol
☐ Histic Epipedon
☐ Sulfidic Odor
☐ Aquatic Moisture Regime
☐ Reducing Conditions
☐ Gleyed or Low-Chroma Colors
☐ Concretions
☐ Organic Streaking in Sandy Soils
☐ High Organic Content in Surface Layer in Sandy Soils
☐ Listed on National Hydric Soils List
☐ Listed on Local Hydric Soils List
☐ Other (explain in remarks)

Remarks: No hydric soil indicators

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes	☒ No	Is this Sampling Point Within a Wetland?	☐ Yes	☒ No
Wetland Hydrology Present?	☐ Yes	☒ No			
Hydric Soils Present?	☐ Yes	☒ No			

Remarks: Confirmed palustrine forested/scrub-shrub wetland

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: Nine Mile Point — Date: 7/12/07
Applicant/Owner: Constellation — County: Oswego
Investigator: D. Klimb / S. Birkey — State: NY
Do Normal Circumstances exist on this site? (Yes) No — Community ID:
Is the site significantly disturbed (Atypical Situation?) Yes (No) — Transect ID: ETL WET
Is the area a potential Problem Area? Yes (No) — Plot ID: @ Flag E13

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus Pennsylvanica	T	25/65	9. Rosa multiflora	H	/80
2. Acer Saccharum	T	4/65	10. Solidago rugosa	H	/80
3.			11. Impatiens capensis	H	/80
4. Prunus serotina	S	12/30	12. Solidago graminifolia	H	/80
5. F. Pennsylvanica	S	12/30	13. Toxicodendron radicans	H	/80
6. Populus tremuloides	S	12/30	14.		
7.			15. Sonicula Sp.		
8. Parthenos cissus Hederifolia	H	40/80	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU):

Remarks:

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☐ No Recorded Data Available

FIELD OBSERVATIONS:
- Depth of Surface Water: _____(in.)
- Depth to Free Water in Pit: _____(in.)
- Depth to Saturated Soil: _____(in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☑ Water Marks
- ☑ Drift Lines w/in 50'
- ☐ Sediment Deposits
- ☑ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks: signs of saturation

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: _____ Date: _____
Applicant/Owner: _____ County: _____
Investigator: _____ State: _____
Do Normal Circumstances exist on this site? Yes No Community ID: _____
Is the site significantly disturbed (Atypical Situation)? Yes No Transect ID: ET UPL 1
Is the area a potential Problem Area? Yes No Plot ID: _____

SOILS

Map Unit Name (Series and Phase): _____ Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No
Taxonomy (Subgroup): _____

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-11	Ap	10YR 4/2	N/A	N/A	FSL no structure
11-14	B/C	10YR 5/2	10YR 5/6	common medium	gravelly
14-20	B/C		7.5 YR 4/6	few, small	to 60 in B
			10YR 7/1	common large depletions	

HYDRIC SOIL INDICATORS

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☑ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☑ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Streaking in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
Is this sampling point a Wetland? Yes No

Remarks:

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Acer saccharum	T	35/70	9. Sanicula	H	10/80
2. Malus sp.	T	35/70	10.		
3.			11.		
4. Prunus s.	S/S	35/135	12.		
5.			13.		
6. Parthenocissus	H	50/180	14.		
7. Poa pratensis	H	10/80	15.		
8. Rubus sp.	H	10/80	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU):

Remarks:

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☐ No Recorded Data Available

FIELD OBSERVATIONS:
Depth of Surface Water: _____ (in.)
Depth to Free Water in Pit: _____ (in.)
Depth to Saturated Soil: _____ (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks: None

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: _____ Date: _____
Applicant/Owner: _____ County: _____
Investigator: _____ State: _____
Do Normal Circumstances exist on this site? Yes No Community ID: _____
Is the site significantly disturbed (Atypical Situation?) Yes No Transect ID: Atl Wet
Is the area a potential Problem Area? Yes No Plot ID: @ 250

SOILS

Map Unit Name (Series and Phase): _____ Drainage Class: _____
Field Observations
Confirm Mapped Type? Yes No
Soil Data Sheet

Taxonomy (Subgroup): _____

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-11	Ap	10YR 3/3	N/A	N/A	FSL; moo
11-16	Bh	10YR 4/2	10YR 6/4	few; small	
refusal @ 16"					

HYDRIC SOIL INDICATORS

- ❑ Histosol
- ❑ Histic Epipedon
- ❑ Sulfidic Odor
- ❑ Aquic Moisture Regime
- ❑ Reducing Conditions
- ❑ Gleyed or Low-Chroma Colors
- ❑ Concretions
- ❑ High Organic Streaking in Surface Layer in Sandy Soils
- ❑ Organic Streaking in Sandy Soils
- ❑ Listed on Local Hydric Soils List
- ❑ Listed on National Hydric Soils List
- ❑ Other (Explain in Remarks)

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
Is this sampling point a Wetland? Yes No

Remarks:

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus pennsylvanica T		10/35	9. Carex sp. (sterile?)	H	UAS
2. Acer rubrum T		25/35	10.		
3.			11. Solidago rugosa	H	3/23
4. F. pennsylvanica	S/S	10/10	12.		
5. Crataegus mollis	S	30/50	13.		
6. Acer rubrum	S	10/50	14.		
7.			15.		
8. Tox rad	H	11/25	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU): _____

Remarks:

FACW?

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ❑ Stream, Lake, or Tide Gauge
- ❑ Aerial Photographs
- ❑ Other
- ❑ No Recorded Data Available

FIELD OBSERVATIONS:
Depth of Surface Water: _____ (in.)
Depth to Free Water in Pit: _____ (in.)
Depth to Saturated Soil: _____ (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ❑ Inundated
- ❑ Saturated in Upper 12 Inches
- ☑ Water Marks
- ☑ Drift Lines
- ❑ Sediment Deposits
- ❑ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ❑ Oxidized Root Channels in Upper 12 Inches
- ☑ Water Stained Leaves
- ❑ Local Soil Survey Data
- ❑ FAC-Neutral Test
- ❑ Other (Explain in Remarks)

Remarks:

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: _____ Date: _____
Applicant/Owner: _____ County: _____
Investigator: _____ State: _____
Do Normal Circumstances exist on this site? Yes No Community ID: _____
Is the site significantly disturbed (Atypical Situation?) Yes No Transect ID: AT1 UPL
Is the area a potential Problem Area? Yes No Plot ID: @250

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Consistence, Structure, etc.
0-9	Ap	10YR 3/2	N/A	N/A	FSL
9-13	B	10YR 5/2	10YR 5/6	common, small	
refusal @ 13 inches					

HYDRIC SOIL INDICATORS

- ❑ *Histosol*
- ❑ Histic Epipedon
- ❑ Sulfidic Odor
- ❑ Aquic Moisture Regime
- ❑ *Reducing Conditions*
- ❑ Gleyed or Low-Chroma Colors
- ❑ Concretions
- ❑ High Organic Streaking in Surface Layer in Sandy Soils
- ❑ *Organic Streaking in Sandy Soils*
- ❑ Listed on Local Hydric Soils List
- ❑ Listed on National Hydric Soils List
- ❑ Other (Explain in Remarks)

Hydric Soil Present? Yes No

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
Is this sampling point a Wetland? Yes No

Remarks:

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 Malus sp	T	25/25	9 Acer saccharum	20/65	
2			10		
3			11		
4 Black Oak	S/S	20/65	12		
5 Sassafras	S/S	/65	13		
6 Fraxinus pennsylvanica	S/S	6/65	14		
7 Amelanchier canadensis	SH	/65	15		
8			16		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU):

Remarks:

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ❑ Stream, Lake, or Tide Gauge
- ❑ Aerial Photographs
- ❑ Other
- ❑ No Recorded Data Available

FIELD OBSERVATIONS:
Depth of Surface Water: _____ (in.)
Depth to Free Water in Pit: _____ (in.)
Depth to Saturated Soil: _____ (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ❑ Inundated
- ❑ Saturated in Upper 12 Inches
- ❑ Water Marks
- ❑ Drift Lines
- ❑ Sediment Deposits
- ❑ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ❑ Oxidized Root Channels in Upper 12 Inches
- ❑ Water Stained Leaves
- ❑ Local Soil Survey Data
- ❑ FAC-Neutral Test
- ❑ Other (Explain in Remarks)

Remarks:

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: _____ Date: _____
Applicant/Owner: _____ County: _____
Investigator: _____ State: _____
Do Normal Circumstances exist on this site? Yes No Community ID: _____
Is the site significantly disturbed (Atypical Situation?) Yes No Transect ID: _____
Is the area a potential Problem Area? Yes No Plot ID: _____

SOILS

Map Unit Name
(Series and Phase): _____ Drainage Class: _____
Field Observations
Taxonomy (Subgroup): _____ Confirm Mapped Type? Yes No

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Coarse Frags, Structure, etc.
0-10	A	10YR 4/3	10YR 4/4	few, medium	no D
10-14	B	10YR 5/3	10YR 5/6	common, small	
Mtvsn		@ 14"			

HYDRIC SOIL INDICATORS

- ❑ Histosol
- ❑ Histic Epipedon
- ❑ Sulfidic Odor
- ❑ Aquic Moisture Regime
- ❑ Reducing Conditions
- ❑ Gleyed or Low-Chroma Colors
- ❑ Concretions
- ❑ High Organic Streaking in Surface Layer in Sandy Soils
- ❑ Organic Streaking in Sandy Soils
- ❑ Listed on Local Hydric Soils List
- ❑ Listed on National Hydric Soils List
- ❑ Other (Explain in Remarks)

Hydric Soil Present? Yes No
Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No
Wetland Hydrology Present? Yes No
Hydric Soils Present? Yes No
Is this sampling point a Wetland? Yes No
Remarks:

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1			9		
2			10		
3			11		
4			12		
5			13		
6			14		
7			15		
8			16		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU): _____
Remarks:

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ❑ Stream, Lake, or Tide Gauge
- ❑ Aerial Photographs
- ❑ Other
- ❑ No Recorded Data Available

FIELD OBSERVATIONS:
Depth of Surface Water: _____ (in.)
Depth to Free Water in Pit: _____ (in.)
Depth to Saturated Soil: _____ (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ❑ Inundated
- ❑ Saturated in Upper 12 Inches
- ❑ Water Marks
- ❑ Drift Lines
- ❑ Sediment Deposits
- ❑ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ❑ Oxidized Root Channels in Upper 12 Inches
- ❑ Water Stained Leaves
- ❑ Local Soil Survey Data
- ❑ FAC-Neutral Test
- ❑ Other (Explain in Remarks)

Remarks:

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: UniStar NMP3 site — Date: 10-4-08
Applicant/Owner: Constellation Energy — County: Oswego
Investigator: Dave Klinch — State: NY
Do Normal Circumstances exist on this site? (Yes) No — Community ID: DDDGWET
Is the site significantly disturbed (Atypical Situation?) Yes (No) — Transect ID: DDDG
Is the area a potential Problem Area? Yes (No) — Plot ID: WET

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus penn.	T	FACW	9. Carex vulp.	H	FACW
2. Populus trem	T	NL	10. Fraxinus penn.	H	FACW
3. Ulmus amer.	T	FACW	11. Rubus sp.	H	FAC-
4.			12. (R. idaeus)		
5. Toxico. rad.	L	FAC	13.		
6.			14.		
7. Solidago sp.	H	NL	15.		
8. Aster sp.	H	FAC	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU): >50

Remarks: goldenrod is narrow leaved, aster is New England aster
- plot ~60' from Lake Rd.

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☒ No Recorded Data Available

FIELD OBSERVATIONS:
- Depth of Surface Water: — (in.)
- Depth to Free Water in Pit: — (in.)
- Depth to Saturated Soil: 20" (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☒ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks: wetland boundary is at base of long, shallow slope from S to N.

SOILS

Map Unit Name (Series and Phase): Ira gravelly fsl — Drainage Class: mod well dr

Taxonomy (Subgroup): not listed, assume Aquept — Field Observations Confirm Mapped Type? (Yes) No

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-9"	A	10YR 3/2	—	—	
9-18"	Bhs	10YR 5/2	10YR 4/6, 10YR 5/6 @ 18"	common, medium	massive, friable
↳ refusal on cobble					

HYDRIC SOIL INDICATORS

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Streaking in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Hydric Soil Present? (Yes) No

Remarks: Fragipan observed @ 18-20' BGS, common ⑤ of Lake Rd

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No

Wetland Hydrology Present? (Yes) No

Hydric Soils Present? (Yes) No

Is this sampling point a Wetland? (Yes) No

Remarks: very stony soil below ~10" BGS, hummocky topography, + variability in matrix chroma and redox color + abundance w/in general area

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: UniStar NMP3 site — Date: 10-4-08
Applicant/Owner: CEG — County: Oswego
Investigator: KTinch — State: NY
Do Normal Circumstances exist on this site? (Yes) No — Community ID: DDD6UPL
Is the site significantly disturbed (Atypical Situation?) Yes (No) — Transect ID: DDD6
Is the area a potential Problem Area? Yes (No) — Plot ID: UPL

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Populus trem.	T	NL	9.		
2. Acer sacch.	T	UPL	10.		
3. Fraxinus pensn.	T	FACW	11.		
4. Rubus sp.	S	FAC-	12.		
5. Solidago sp.	H	NL	13.		
6. Toxicodendron radicans	H	FAC	14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU): <50%

Remarks: upland/wetland determination in this area dependant predominantly on depth to saturation + soil charact.

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ❑ Stream, Lake, or Tide Gauge
- ❑ Aerial Photographs
- ❑ Other
- X ❑ No Recorded Data Available

FIELD OBSERVATIONS:
- Depth of Surface Water: — (in.)
- Depth to Free Water in Pit: — (in.)
- Depth to Saturated Soil: >20 (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ❑ Inundated
- ❑ Saturated in Upper 12 Inches
- ❑ Water Marks
- ❑ Drift Lines
- ❑ Sediment Deposits
- ❑ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ❑ Oxidized Root Channels in Upper 12 Inches
- ❑ Water Stained Leaves
- ❑ Local Soil Survey Data
- ❑ FAC-Neutral Test
- ❑ Other (Explain in Remarks)

Remarks: Fac neutral rule supports UPL designation here + @ wetland EE/FF

SOILS

Map Unit Name (Series and Phase): Ira gravelly fsl

Drainage Class: MWD

Taxonomy (Subgroup): NL

Field Observations
Confirm Mapped Type? (Yes) No

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-7"	Ap	10YR 3/2	—	—	massive
7-16"	Bkg	10YR 6/3	10YR 5/6	few, med	massive
= refusal on cobbles/fragipan ~16-18" BGS					

HYDRIC SOIL INDICATORS

- ❑ Histosol
- ❑ Histic Epipedon
- ❑ Sulfidic Odor
- ❑ Aquic Moisture Regime
- ❑ Reducing Conditions
- ❑ Gleyed or Low-Chroma Colors
- ❑ Concretions
- ❑ High Organic Streaking in Surface Layer in Sandy Soils
- ❑ Organic Streaking in Sandy Soils
- ❑ Listed on Local Hydric Soils List
- ❑ Listed on National Hydric Soils List
- ❑ Other (Explain in Remarks)

Hydric Soil Present? Yes (No)

Remarks: dry, friable soil w/ roots + 20%+ gravel

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No)

Wetland Hydrology Present? Yes (No)

Hydric Soils Present? Yes (No)

Is this sampling point a Wetland? Yes (No)

Remarks:

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: Unistar NMP3 site — Date: 10-4-08
Applicant/Owner: CEG — County: Oswego
Investigator: Kilinch — State: NY
Do Normal Circumstances exist on this site? (Yes) No — Community ID: EE158WET
Is the site significantly disturbed (Atypical Situation?) Yes (No) — Transect ID: EE158
Is the area a potential Problem Area? Yes (No) — Plot ID: WET

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus penn	T	FACW	9. Toxicodendron r.	S	FAC
2. Lindera benzoin	S	FACW-	10.		
3. Acer saccharum	S	FACU-	11.		
4.			12.		
5. Impatiens cap.	H	FACW	13.		
6. Dryopteris spp.	H	FAC+	14.		
7. Onoclea sensibilis	H	FACW	15.		
8. Glyceria sp.	H	OBL	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU): >50%

Remarks: consistent w/ conditions throughout "core" of wetland EE/FF

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☐ No Recorded Data Available

FIELD OBSERVATIONS:
- Depth of Surface Water: — (in.)
- Depth to Free Water in Pit: — (in.)
- Depth to Saturated Soil: 10" (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ☐ Inundated
- ☒ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☒ Water Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS IrB

Map Unit Name (Series and Phase): Ira gravelly fsl

Drainage Class: MWD

Taxonomy (Subgroup): Aquept

Field Observations

Confirm Mapped Type? (Yes) No

but not drainage class

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-12"	A	10YR 3/2			
12"-48"+	Bw	10YR 6/2	10YR 5/6	common med prominent	friable
		w/ 10-20% cobbles			

HYDRIC SOIL INDICATORS

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☒ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Streaking in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Hydric Soil Present? (Yes) No

Remarks: oxidized rhizospheres present

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	(Yes)	No
Wetland Hydrology Present?	(Yes)	No
Hydric Soils Present?	(Yes)	No
Is this sampling point a Wetland?	(Yes)	No

Remarks:

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: UniStar NMPS site — Date: 10-4-08
Applicant/Owner: CEG — County: Oswego
Investigator: Klinch — State: NY
Do Normal Circumstances exist on this site? (Yes) No — Community ID: EE158UPL
Is the site significantly disturbed (Atypical Situation?) Yes (No) — Transect ID: EE158
Is the area a potential Problem Area? Yes (No) — Plot ID: UPL

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Prunus serotina	T	FACU	9. Toxicodendron r.	H	FAC
2. Acer saccharum	T	FACU-	10.		
3.			11.		
4. Vitis sp.	L	FACU	12.		
5.			13.		
6. Onoclea sens.	H	FACW	14.		
7. Dryopteris spin.	H	FAC+	15.		
8. Solidag. laevis	H	NL	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU): <50%

Remarks:

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ❑ Stream, Lake, or Tide Gauge
- ❑ Aerial Photographs
- ❑ Other
- ❑ No Recorded Data Available

FIELD OBSERVATIONS:
- Depth of Surface Water: — (in.)
- Depth to Free Water in Pit: — (in.)
- Depth to Saturated Soil: >20" (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ❑ Inundated
- ❑ Saturated in Upper 12 Inches
- ❑ Water Marks
- ❑ Drift Lines
- ❑ Sediment Deposits
- ❑ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ❑ Oxidized Root Channels in Upper 12 Inches
- ❑ Water Stained Leaves
- ❑ Local Soil Survey Data
- ❑ FAC-Neutral Test
- ❑ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): IrB

Drainage Class: MWD

Field Observations

Taxonomy (Subgroup): _____

Confirm Mapped Type? (Yes) No

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-8"	A	10YR 4/3			
8"-20"	Bhs	10YR 5/3	10YR 5/6	few medium prominent	

HYDRIC SOIL INDICATORS

- ❑ Histosol
- ❑ Histic Epipedon
- ❑ Sulfidic Odor
- ❑ Aquic Moisture Regime
- ❑ Reducing Conditions
- ❑ Gleyed or Low-Chroma Colors
- ❑ Concretions
- ❑ High Organic Streaking in Surface Layer in Sandy Soils
- ❑ Organic Streaking in Sandy Soils
- ❑ Listed on Local Hydric Soils List
- ❑ Listed on National Hydric Soils List
- ❑ Other (Explain in Remarks)

Hydric Soil Present? Yes (No)

Remarks: refusal ~20" Bhs

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No)

Wetland Hydrology Present? Yes (No)

Hydric Soils Present? Yes (No)

Is this sampling point a Wetland? Yes (No)

Remarks:

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: UniStar NMPS site — Date: 11-18-08
Applicant/Owner: CEG — County: Oswego
Investigator: Klinch — State: NY
Do Normal Circumstances exist on this site? (Yes) No — Community ID: HHH1WET
Is the site significantly disturbed (Atypical Situation?) Yes (No) — Transect ID: HHH1
Is the area a potential Problem Area? Yes (No) — Plot ID: WET

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Fraxinus penn.	T	FACW	9. Onocleasens.	H	FACW
2. Populus trem.	T	NL	10.		
3.			11.		
4. Ilex verticillata	S	FACW	12.		
5. Lonicera sp	S	UPL	13.		
6. Cornus stolonifera	S	FACW	14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU):

Remarks: wetland community discretely contained w/in ~150' depressional area

HYDROLOGY

RECORDED DATA (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other
- ☐ No Recorded Data Available

FIELD OBSERVATIONS:
Depth of Surface Water: 3-12" (in.)
Depth to Free Water in Pit: ____ (in.)
Depth to Saturated Soil: ____ (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:
- ☒ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks: analysis done during heavy snow + outside of growing season

SOILS

Map Unit Name (Series and Phase): Scriba gravelly fsl Drainage Class: SPD

Taxonomy (Subgroup): ~Aquept Field Observations Confirm Mapped Type? (Yes) No

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-11"	A	10YR 5/2			
11-20"	Bt	10YR 4/2	10YR 4/6	common	
		fragipan? ~ 18-20" BGS			

HYDRIC SOIL INDICATORS

- ❑ Histosol
- ❑ Histic Epipedon
- ❑ Sulfidic Odor
- ❑ Aquic Moisture Regime
- ❑ Reducing Conditions
- ❑ Gleyed or Low-Chroma Colors
- ❑ Concretions
- ❑ High Organic Streaking in Surface Layer in Sandy Soils
- ❑ Organic Streaking in Sandy Soils
- ❑ Listed on Local Hydric Soils List
- ❑ Listed on National Hydric Soils List
- ❑ Other (Explain in Remarks)

Hydric Soil Present? (Yes) No

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (Yes) No

Wetland Hydrology Present? (Yes) No

Hydric Soils Present? (Yes) No

Is this sampling point a Wetland? (Yes) No

Remarks:

DATA FORM

ROUTINE WETLAND DETERMINATION
1987 COE Wetlands Determination Manual

Project/Site: UniStar NMP3 site Date: 11-18-08
Applicant/Owner: CEG County:
Investigator: RLinch State:
Do Normal Circumstances exist on this site? (Yes) No Community ID:
Is the site significantly disturbed (Atypical Situation?) Yes (No) Transect ID: HHH-1
Is the area a potential Problem Area? Yes (No) Plot ID: UPL

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Populus tremuloides	T	NL	9. Onoclea sens.	H	FACW
2. Quercus rubra	T	UPL	10. Dryopteris spin.	H	FACU
3.			11.		
4. Lonicera sp	S	UPL	12.		
5.			13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FACU):

Remarks:

HYDROLOGY

RECORDED DATA (Describe in Remarks):

- ❑ Stream, Lake, or Tide Gauge
- ❑ Aerial Photographs
- ❑ Other
- ❑ No Recorded Data Available

FIELD OBSERVATIONS:

Depth of Surface Water: — (in.)
Depth to Free Water in Pit: — (in.)
Depth to Saturated Soil: — (in.)

WETLAND HYDROLOGY INDICATORS:

PRIMARY INDICATORS:

- ❑ Inundated
- ❑ Saturated in Upper 12 Inches
- ❑ Water Marks
- ❑ Drift Lines
- ❑ Sediment Deposits
- ❑ Drainage Patterns in Wetlands

SECONDARY INDICATORS (2 or more required):

- ❑ Oxidized Root Channels in Upper 12 Inches
- ❑ Water Stained Leaves
- ❑ Local Soil Survey Data
- ❑ FAC-Neutral Test
- ❑ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): Scriba gravelly fsl Drainage Class: SPD

Taxonomy (Subgroup): Aquept Field Observations Confirm Mapped Type? (Yes) No

PROFILE DESCRIPTION

Depth (Inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0"-4"	A	10YR 4/2	—		
4"-15"	Bw	10YR 4/3	—	no mottles	

HYDRIC SOIL INDICATORS

- ❑ Histosol
- ❑ Histic Epipedon
- ❑ Sulfidic Odor
- ❑ Aquic Moisture Regime
- ❑ Reducing Conditions
- ❑ Gleyed or Low-Chroma Colors
- ❑ Concretions
- ❑ High Organic Streaking in Surface Layer in Sandy Soils
- ❑ Organic Streaking in Sandy Soils
- ❑ Listed on Local Hydric Soils List
- ❑ Listed on National Hydric Soils List
- ❑ Other (Explain in Remarks)

Hydric Soil Present? Yes No

Remarks: refusal on cobbles ~15" BGS

WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes (No)

Wetland Hydrology Present? Yes (No)

Hydric Soils Present? Yes (No)

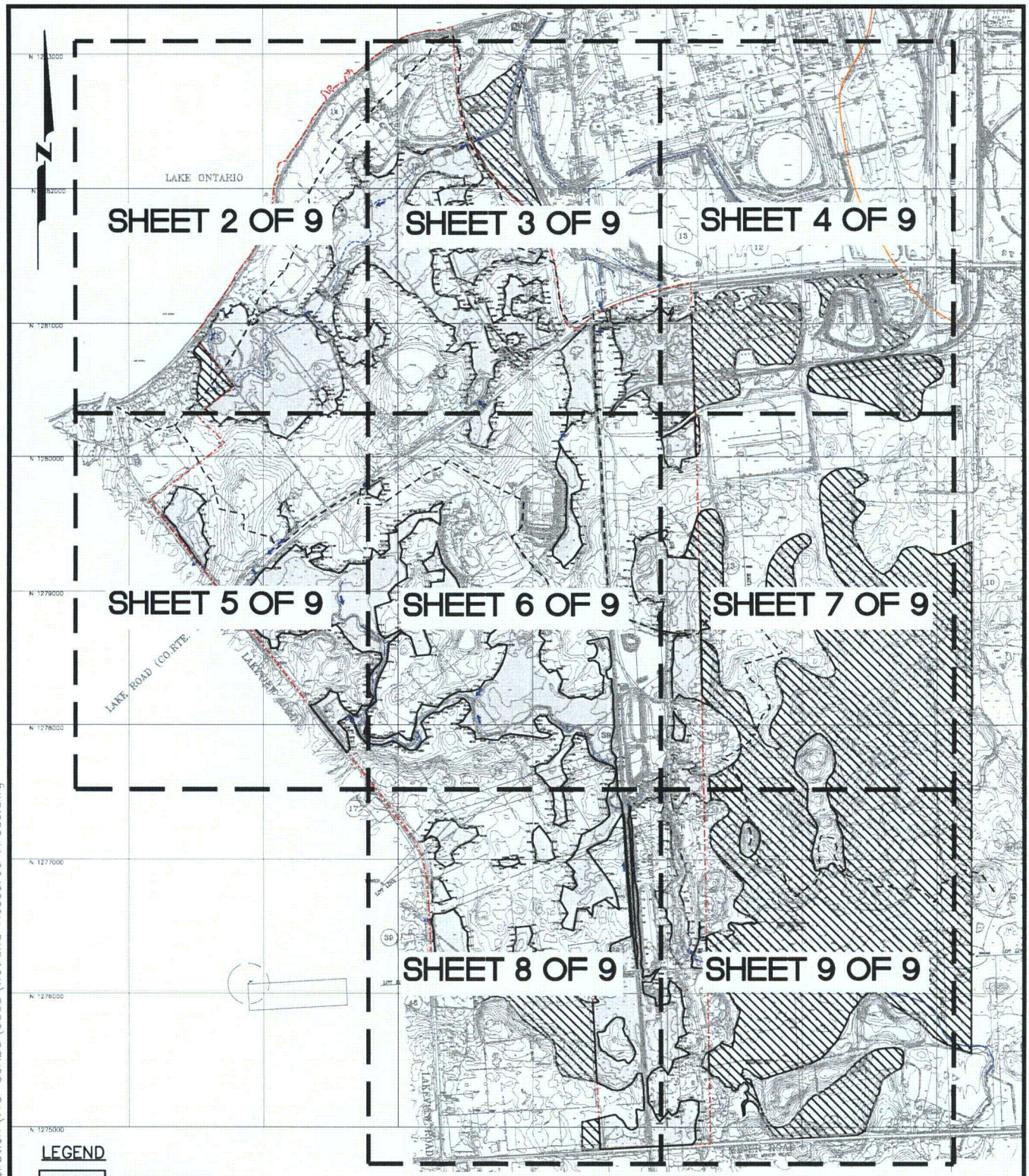
Is this sampling point a Wetland? Yes (No)

Remarks:

Appendix B

Wetland Survey Plan Sheets

April 2009



LEGEND

- WETLAND
- UNCONFIRMED WETLAND BOUNDARIES OUTSIDE OF STUDY AREA
- INTERMITTENT STREAM
- PERENNIAL STREAM
- STUDY AREA (DELINEATION) BOUNDARY
- WATERSHED BOUNDARY (DELINEATION BY AECOM)
- WATERSHED BOUNDARY (FROM NATIONAL HYDROGRAPHY DATA SET, 2004)
- DIRECTION OF SURFACE WATER FLOW

SCALE: 1'=1040'

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INDEX SHEET
WETLAND RESOURCE AREAS
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SCRIBA, NEW YORK

FIGURE NUMBER: 1

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
J.E.B.	2/18/09	01878-137-0008	1 OF 9

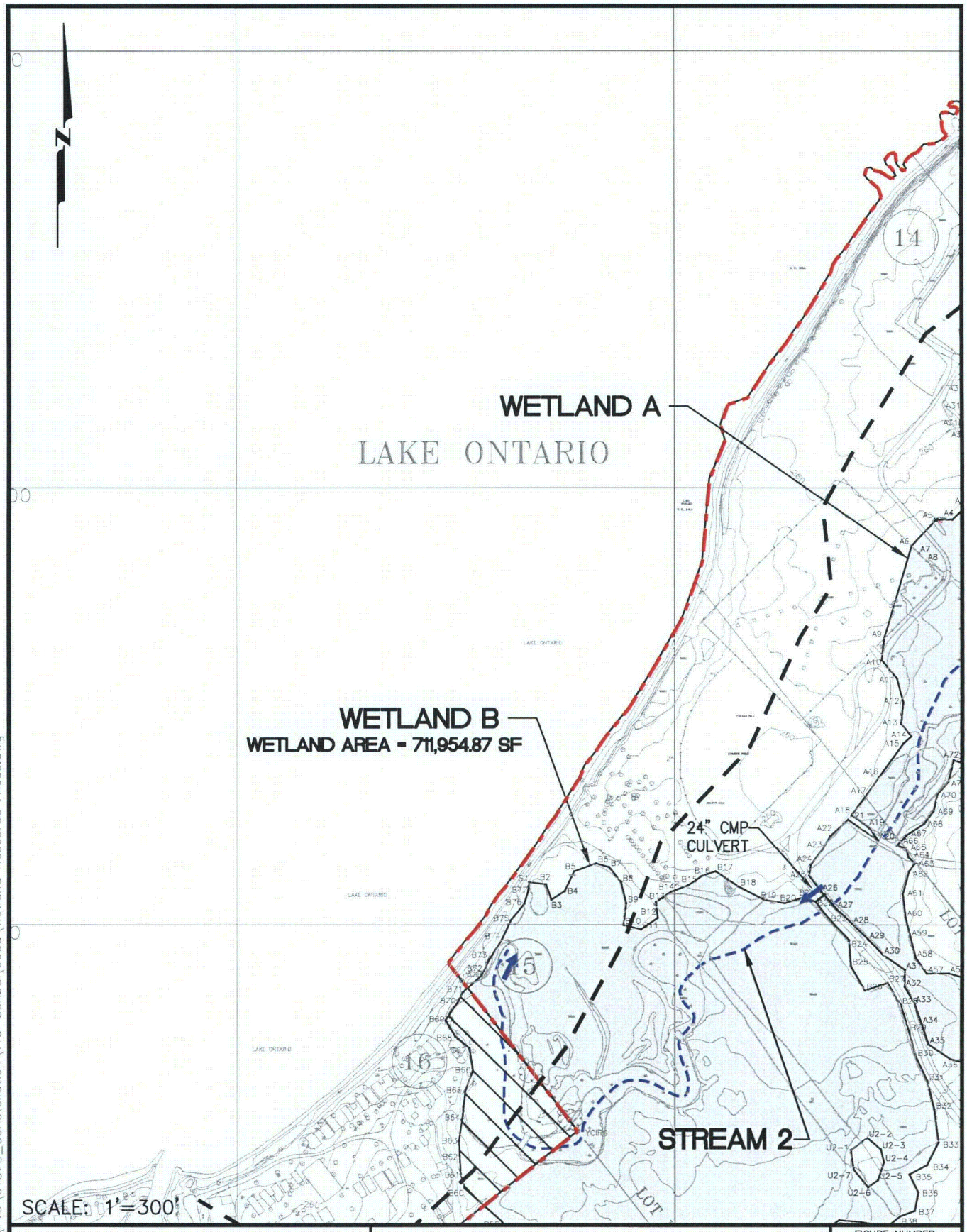

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FIGURE NUMBER: 2

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
J.E.B.	2/18/09	01878-137-0008	2 OF 9

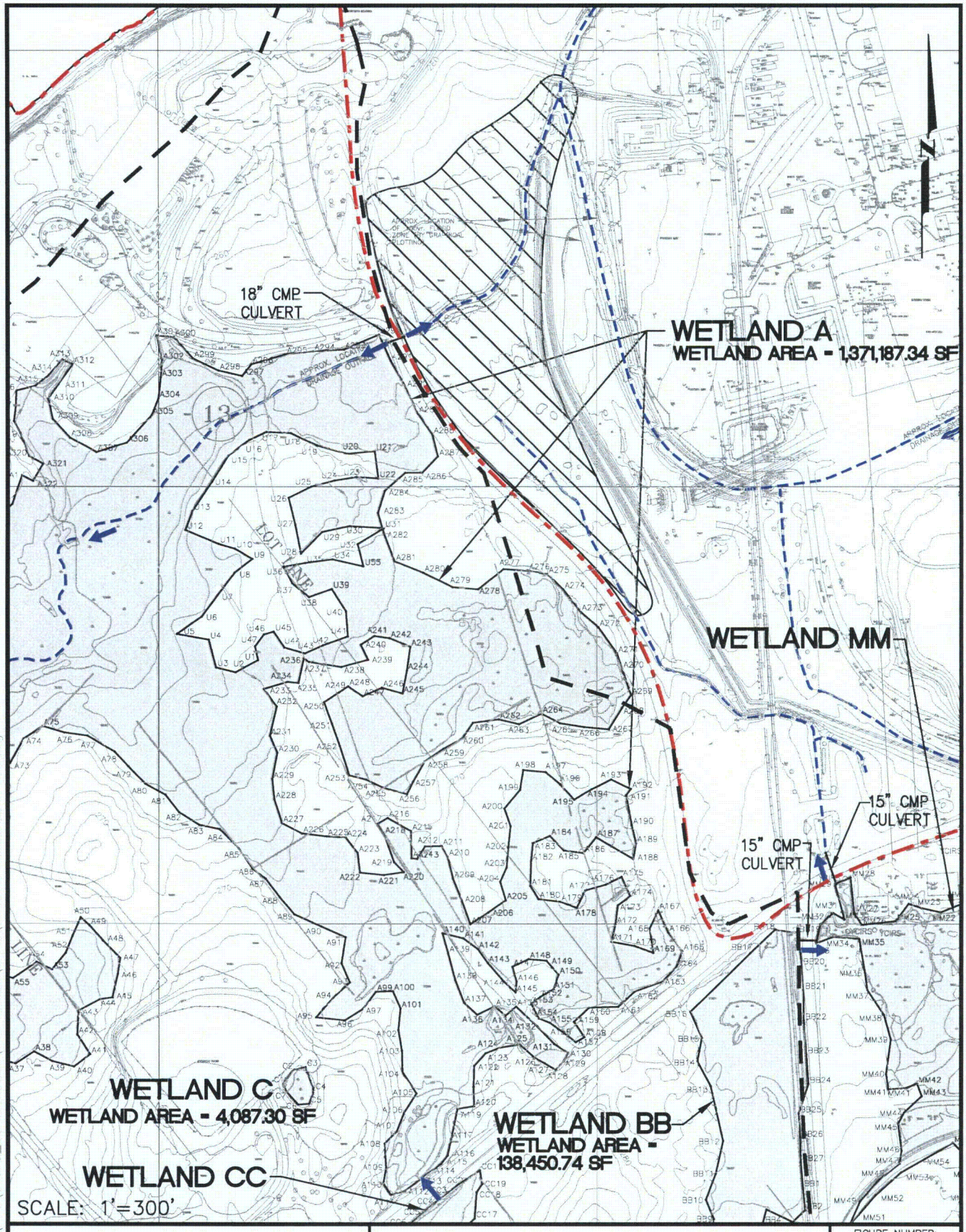

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FIGURE NUMBER: 3

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
J.E.B.	2/18/09	01878-137-0008	3 OF 9

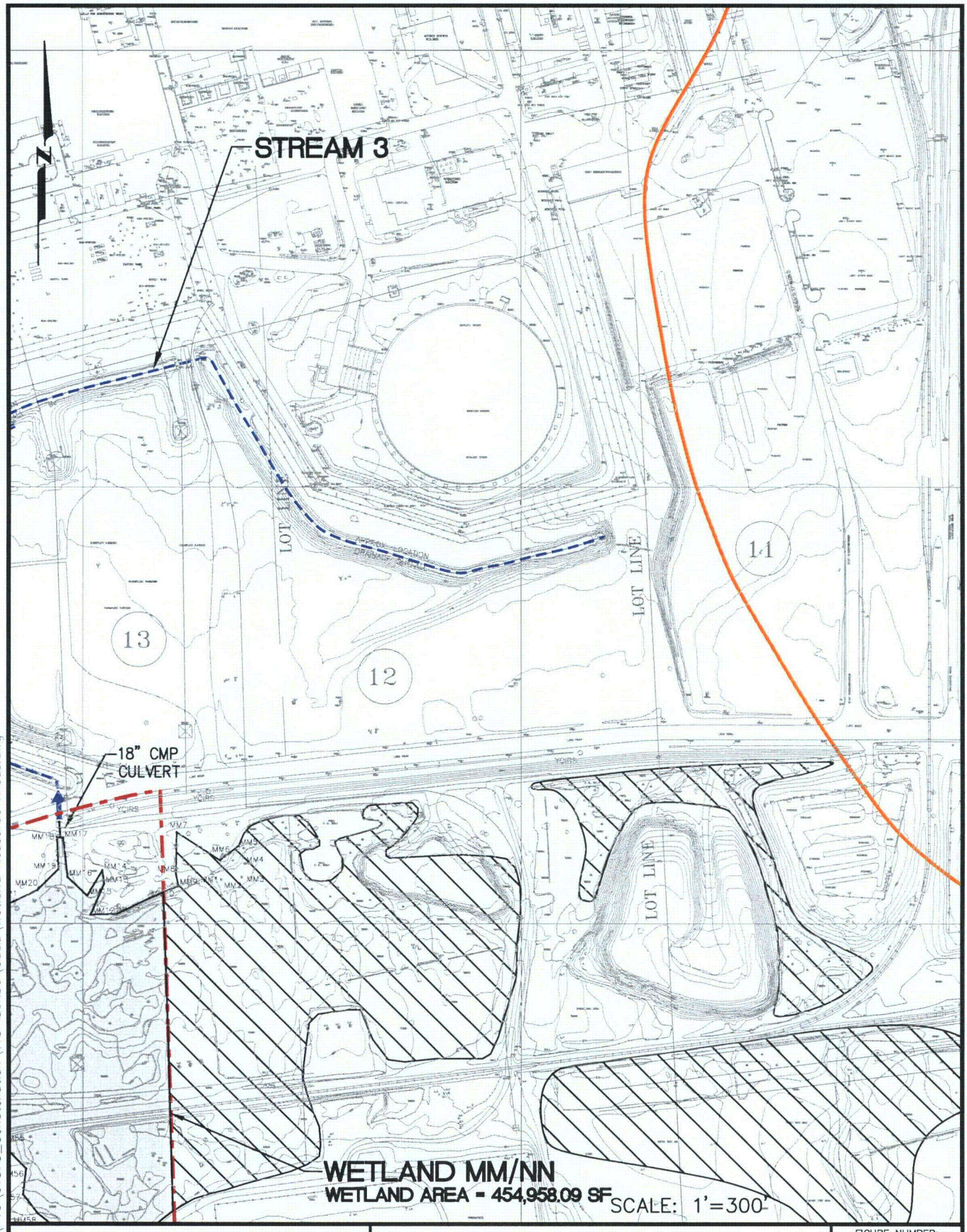

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FIGURE NUMBER: 4

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
J.E.B.	2/18/09	01878-137-0008	4 OF 9

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FIGURE NUMBER: 5

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
J.E.B.	2/18/09	01878-137-0008	5 OF 9

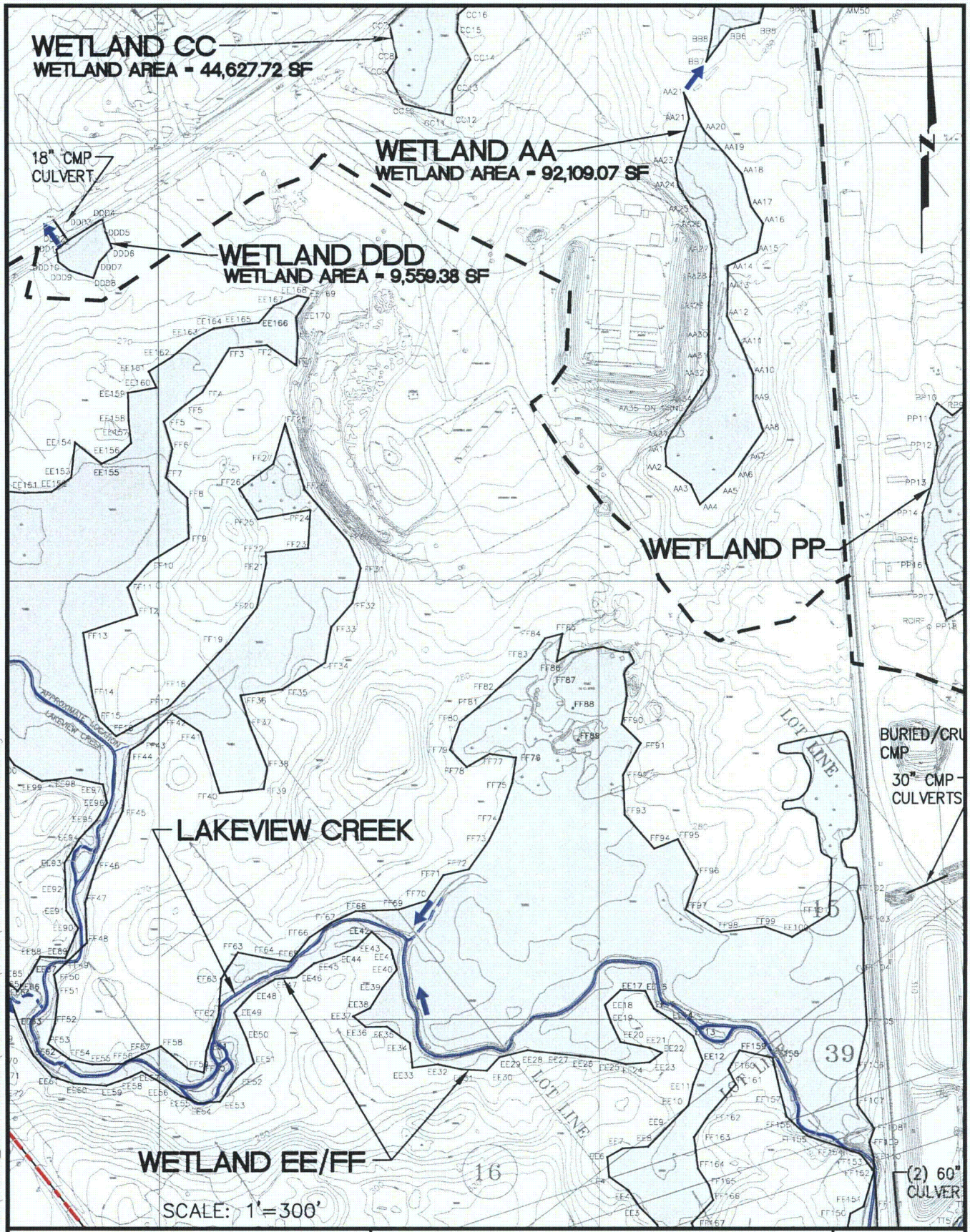

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FIGURE NUMBER: 6

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
J.E.B.	2/18/09	01878-137-0008	6 OF 9

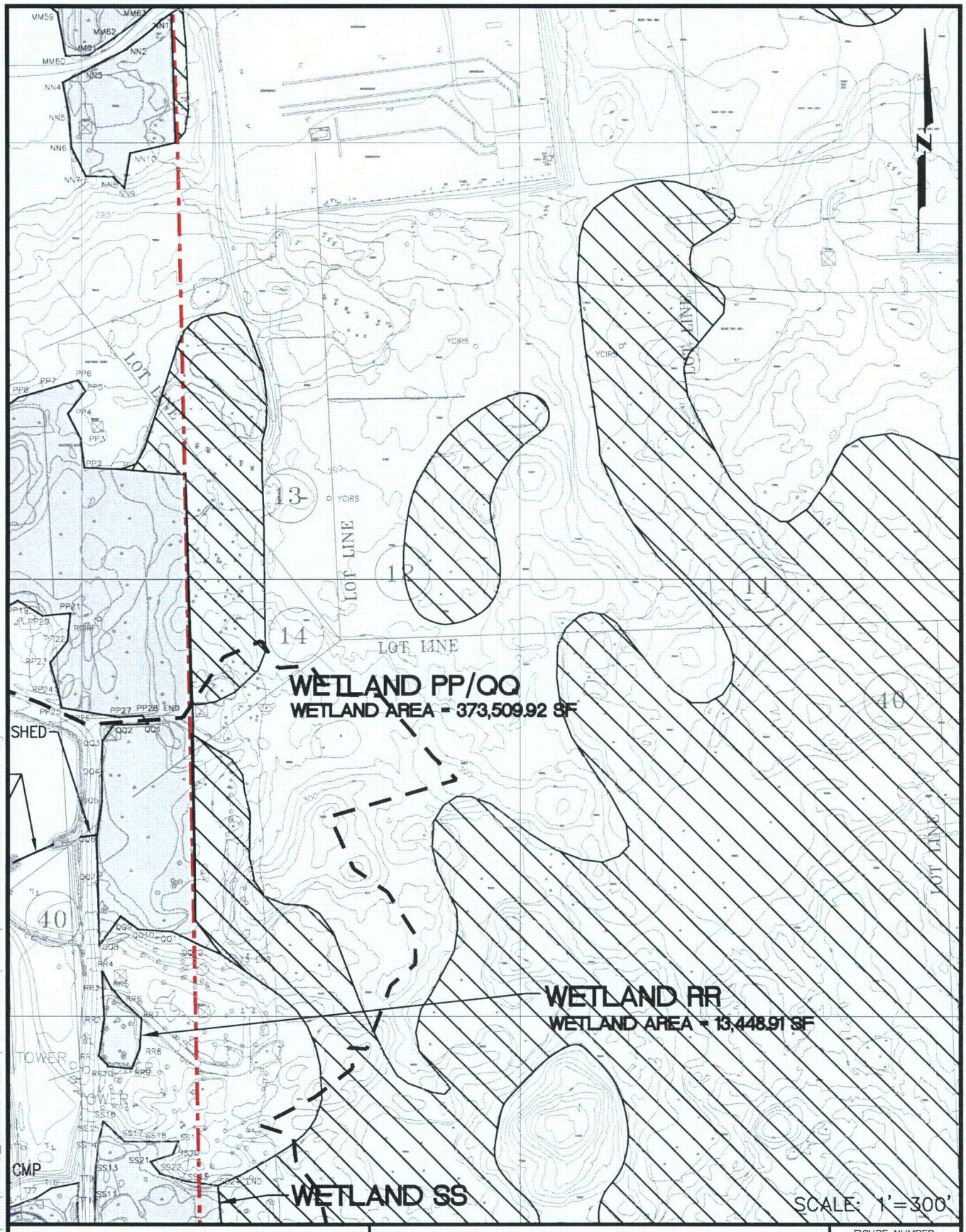

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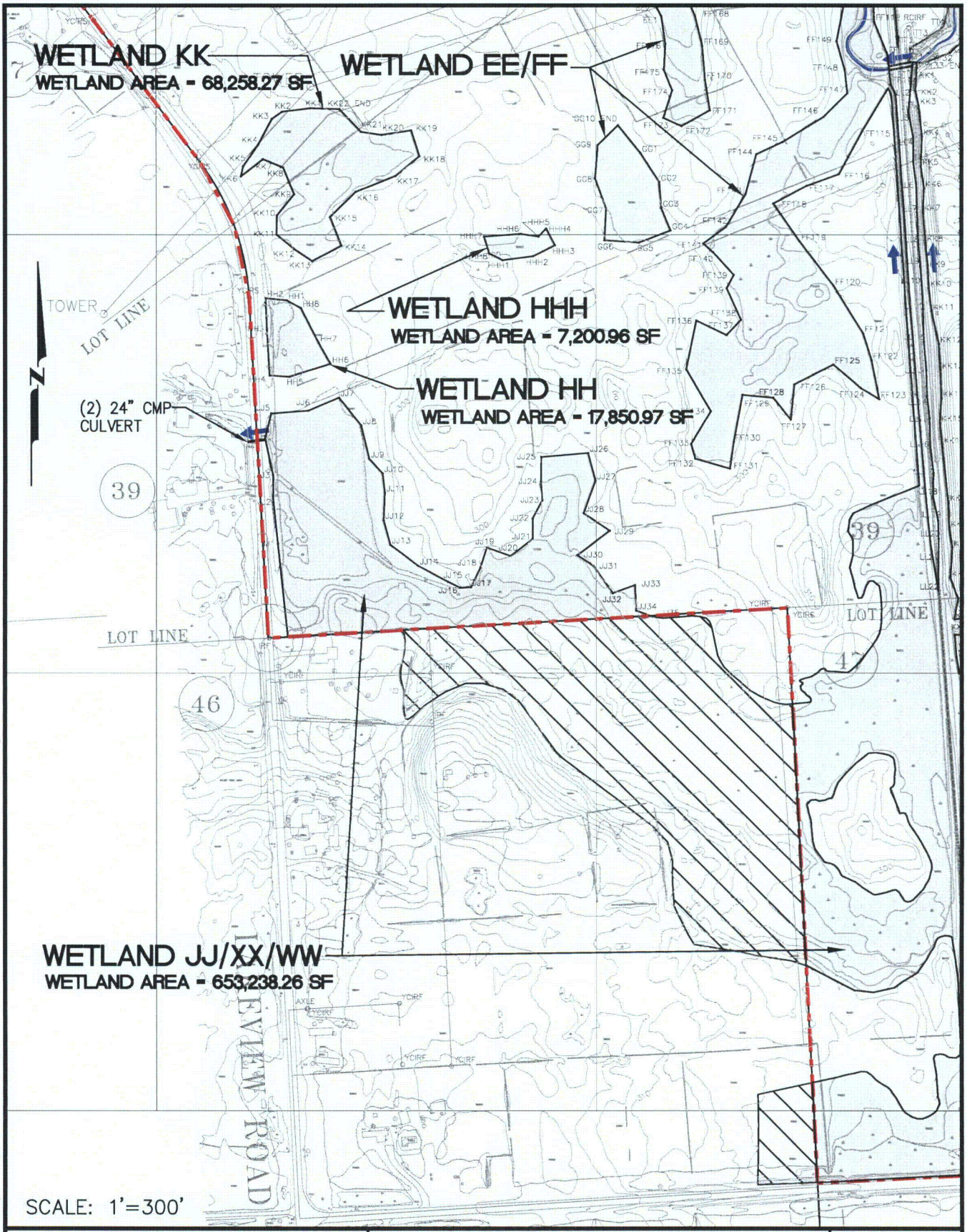
FIGURE NUMBER: 7

DRAWN BY:	DATE:	PROJECT NUMBER:	SHEET NUMBER:
J.E.B.	2/18/09	01878-137-0008	7 OF 9



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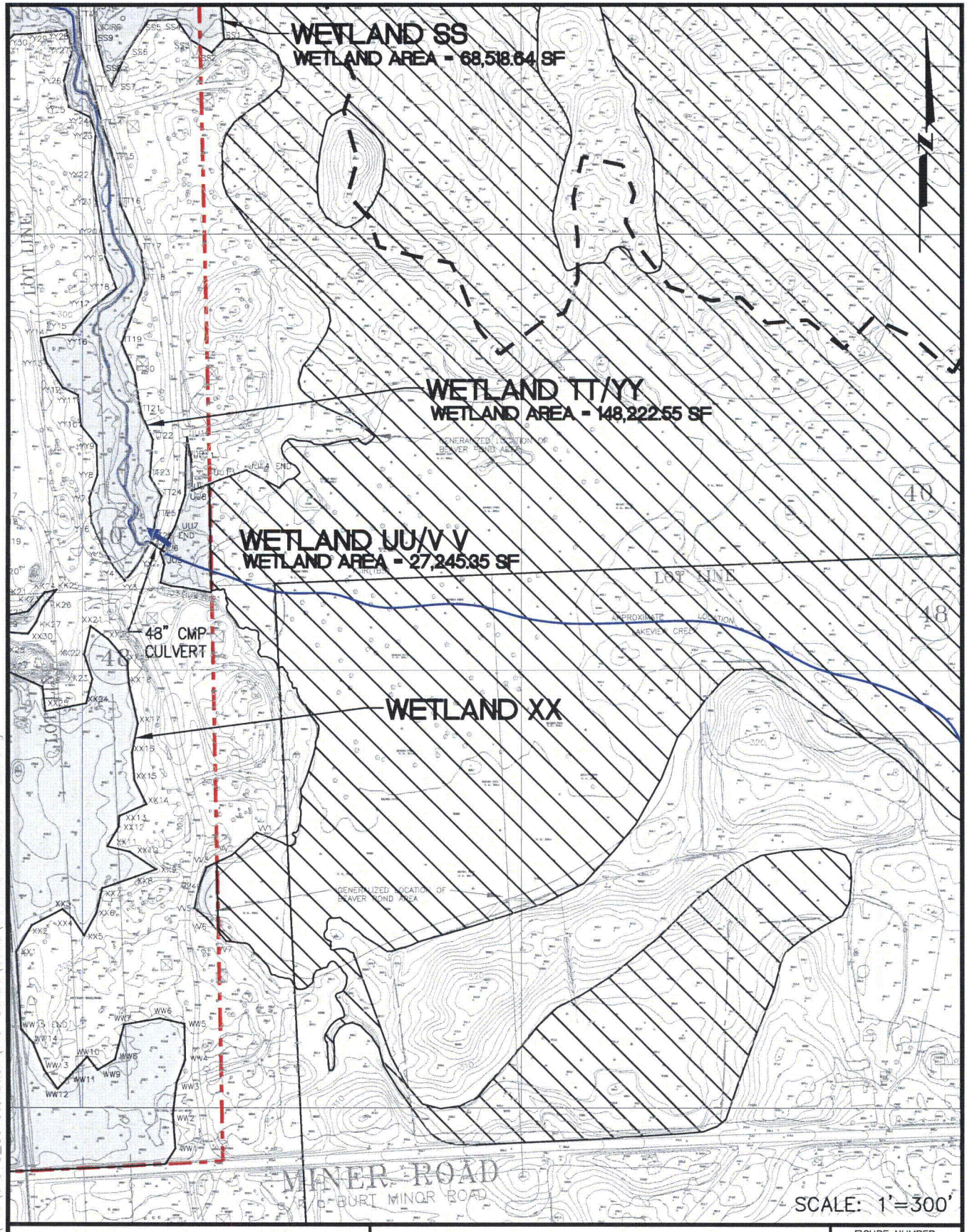

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