# Wetland and Stream Delineation Report

# **Central Hudson Gas & Electric Corporation**

# 69kV Electric Transmission Line Replacement Project

Towns of Poughkeepsie and Wappinger

**Dutchess County, New York** 

Prepared for:



Central Hudson Gas & Electric Corp. Contact: Brian Dimisko BDimisko@cenhud.com (845) 486-5791

Prepared by:

EDR Environmental Design & Research, D.P.C. 217 Montgomery Street, Suite 1100 Syracuse, New York 13202 www.edrdpc.com

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# 1.0 INTRODUCTION

### 1.1 STUDY AREA LOCATION AND DESCRIPTION

Central Hudson Gas & Electric Corporation ("Central Hudson" or "CHG&E") is proposing to rebuild the existing KM transmission line ("KM Line") in the Towns of Poughkeepsie and Wappinger, Dutchess County, New York (Figure 1). The KM Line is a 69 kilovolt (kV) electric transmission line which runs from to the Myers Corner substation in the Town of Wappinger to just west of Victor Lane in the Town of Poughkeepsie. The KM Line is approximately 2.8 miles long, encompasses approximately 37.5 acres.

Environmental Design & Research, Landscape Architecture, Engineering & Environmental Services D.P.C. (EDR) was retained by CHG&E to identify wetlands and streams within the existing cleared ROW along the 2.8-mile length of the KM Transmission Line (the "Study Area"). Wetlands and streams were initially identified within the Study Area during fall of 2017 by EDR wetland scientists and biologists and later confirmed in the fall of 2021. EDR's findings are summarized in this report.

### 1.2 PURPOSE

The purpose of this study was to delineate and describe on-site wetlands and streams that occur within the Study Area that could potentially fall under State or federal jurisdiction. Specific tasks performed for this study included: 1) review of background resource data/mapping, 2) field delineation and flagging of potential State and federal jurisdictional wetlands and streams, 3) Global Positioning System (GPS) survey of delineated wetland and stream boundaries, 4) quantification of the area of on-site wetlands and streams, and 5) description of potentially jurisdictional areas based on hydrology, vegetation, and soils data collected in the field.

This report describes the results of the wetland and stream delineations conducted by EDR. It provides the information necessary to identify jurisdictional areas and support any required permit applications to the United States Army Corps of Engineers (USACE) and the New York State Department of Environmental Conservation (NYSDEC), as well as other impact evaluations conducted in support of the Project.

### 1.3 DATA SOURCES

Materials and data supporting this investigation have been derived from a number of sources including United States Geological Survey (USGS) topographic mapping (Wappinger Falls and Poughkeepsie 7.5 minute quadrangles), United States Fish and Wildlife Service (USFWS) National Wetlands Inventory (NWI) mapping, NYSDEC Freshwater Wetlands mapping, the Natural Resources Conservation Service (NRCS) Web Soil Survey (Soil Survey Staff, 2021), the NRCS List of Hydric Soils of the State of New York (NRCS, 2021), the National Land Cover Dataset (NLCD) land cover and vegetation classes (Yang et al., 2018), and recent aerial photography.

Vascular plant nomenclature and wetland indicator status for plant species were determined by the Wildnote field data collection app, which refers to the USDA PLANTS Database (USDA NRCS, 2021) and the

National Wetland Plant List (USACE, 2018). Jurisdictional areas were characterized according to the wetlands and deep water habitats classification system used in NWI mapping (Cowardin, 1979).

# 2.0 REGULATORY AUTHORITIES AND PERMITS

### 2.1 WATERS OF THE UNITED STATES

In accordance with Section 404 of the Clean Water Act (CWA), the USACE has regulatory jurisdiction over Waters of the Unites States (WOTUS). As defined by the USACE, WOTUS include lakes, ponds, streams (intermittent and perennial), tidal waters, and wetlands. Wetlands are defined as "those areas that are inundated or saturated by surface or ground water 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" (USEPA, 2001). Such areas are indicated by the presence of three conditions: 1) a dominance of hydrophytic vegetation, 2) the presence of hydric soils, and 3) evidence of wetland hydrology during the growing season (Environmental Laboratory, 1987).

The Clean Water Rule (the "2015 Rule"), effective August 28, 2015, was adopted to provide a clearer and more consistent approach to defining the scope of the CWA and WOTUS. However, in February 2017, an Executive Order was issued directing the USEPA and USACE to review and rescind or revise the 2015 Rule. On April 21, 2020, the USEPA and USACE published The Navigable Waters Protection Rule: Definition of "Waters of the United States" (USACE and USEPA, 2020). On August 30, 2021, the US District Court threw out the 2020 replacement rule due to procedural errors in its issuance, noting that implementation of the rule could lead to "serious environmental harm" (Pasqua Yaqui Tribe v. USEPA, 2021), thereby restoring the 2015 Rule. Three major elements of the 2015 Rule that define jurisdictional waters are summarized below:

- 1. **Traditional navigable waters** (TNW). The agencies will assert authority over TNW, interstate waters, territorial seas, and impoundments of jurisdictional waters consistent with existing regulations.
- 2. **Tributaries**. The agencies will assert jurisdiction over tributaries, specifically defined as "waters that are characterized by the presence of physical indicators of flow bed and banks and ordinary highwater mark and that contribute flow directly or indirectly to a traditional navigable water."
- 3. **Adjacent Waters**. Defined as "bordering, contiguous, or neighboring, including waters separated from other "waters of the United States" by constructed dikes or barriers, natural river berms, beach dunes and the like," the agencies will assert jurisdiction over these waters if any of these settings occur:
  - "Waters located in whole or in part within 100 feet of the ordinary high-water mark of a traditional navigable water, interstate water, the territorial seas, an impoundment of a jurisdictional water, or a tributary;"
  - "Waters located in whole or in part in the 100-year floodplain and that are within 1,500 feet of the ordinary high-water mark of a traditional navigable water, interstate waters, territorial seas, an impoundment, or a tributary;" and

• "Waters located in whole or in a part within 1,500 feet of the tide line of a traditional navigable water or the territorial seas and waters located within 1,500 feet of the ordinary high-water mark of the Great Lakes."

Some types of waters are subject to a case-by-case evaluation. These waters require analysis of a significant nexus to a navigable water and include similarly situated waters (e.g., prairie potholes); waters within the 100-year floodplain of a traditional navigable water, interstate water, or the territorial seas; waters within 4,000 feet of the high tide line or the OHWM of a traditional navigable water, interstate water, interstate water, the territorial seas, impoundments, or jurisdictional tributary. Some types of waters, such as ditches constructed in uplands, are expressly excluded from jurisdictional waters.

A Section 404 permit from the USACE is required for activities that result in the placement of dredged or fill materials in WOTUS. In addition to Section 404 of the CWA, Section 10 of the Rivers and Harbor Act requires a permit from the USACE to construct any structure in or over any traditional navigable waters of the United States, as well as any proposed action that would alter or disturb these waters (such as excavation/dredging or deposition of materials). Wappinger Creek, a Section 10 water flows from northeast to southwest through the Study Area for approximately one hundred feet. See Section 3.2 for additional information pertaining to this waterway.

### 2.2 NEW YORK STATE FRESHWATER WETLANDS AND PROTECTED STREAMS

The Freshwater Wetlands Act (Article 24 and Title 23 of Article 71 of the Environmental Conservation Law [ECL]) gives the NYSDEC jurisdiction over State-protected wetlands and adjacent areas. The Freshwater Wetlands Act requires the NYSDEC to map all State-protected wetlands to allow landowners and other interested parties a means of determining where State-jurisdictional wetlands exist. To implement the policy established by this Act, regulations were promulgated by the state under 6 NYCRR Parts 663 and 664. Part 664 of the regulations designates wetlands into four class ratings, with Class I being the highest or best quality wetland, and Class IV being the lowest. In general, wetlands regulated by the State are those 12.4 acres in size or larger. Smaller wetlands can also be regulated if they are considered of unusual local importance. A 100-foot adjacent area around the delineated boundary of any state regulated wetland is also under NYSDEC jurisdiction. An Article 24 permit is required from the NYSDEC for any disturbance to a State-protected wetland or adjacent area.

Under Article 15 of the ECL (Protection of Waters), the NYSDEC has regulatory jurisdiction over any activity that disturbs the bed or banks of protected streams or other watercourse. In addition, small lakes, and ponds with a surface area of 10 acres or less, located within the course of a stream, are considered to be part of a stream and are subject to regulation under the stream protection category of Article 15. According to 6 NYCRR Part 608.1(aa), protected streams include any stream, or particular portion of a stream, which has been assigned by the NYSDEC any of the following classifications or standards: AA, A, B, or C(T) or C(TS). A classification of AA or A indicates that the best use of the stream is as a source of water supply for drinking, culinary or food processing purposes, primary and secondary contact recreation, and fishing. The best usage of Class B waters are primary and secondary contact recreation and fishing. The best usage of Class C waters is fishing. Streams designated (T) indicate that they support trout, while those designated (TS)

support trout spawning. An Article 15 permit is required from the NYSDEC for any disturbance to the bed and banks of protected streams, with special requirements applied to streams designated as supporting trout or trout spawning. Where banks are not clearly defined, the NYSDEC may extend permitting jurisdiction to 50 feet beyond the stream.

In addition to the protection of waters permit required to change, modify, or disturb protected streams, Article 15 also requires a permit from the NYSDEC to construct any structure in or above any navigable waters of the State, as well as any proposed action that would alter or disturb these waters (such as excavation/dredging or deposition of materials). As mentioned previously, one navigable waterway, Wappinger Creek, flows through the Study Area. See Section 3.2 for additional information pertaining to this waterway.

# 3.0 REVIEW OF BACKGROUND DATA AND MAPPING

### 3.1 PHYSIOGRAPHY AND SOILS

The Study Area is located within the Hudson Mohawk Lowlands region of New York State (NYSDOT, 2013). The Hudson Mohawk Lowlands extend three to twenty miles east of the Hudson River. The terrain in the Study Area consists of gently sloping hills with 50-100 feet of relief; elevations range from approximately 150-200 feet above mean sea level (see Figure 2). The Hudson Highlands lie to the southeast of the Study Area with elevations ranging from 750-1000 feet (USDA, 2001). The primary land uses in the area are commercial development, undeveloped forest, and family residences.

The Web Soil Survey of Dutchess County (Web Soil Survey, 2021) indicates the occurrence of 15 soil series on site (see Figure 3). Of these, Canandaigua silt loam (Ca; 24.5%) and Dutchess-Cardigan complex (DwB, DwC; 27.8%) are the predominant series occurring within the Study Area. Other soil series found on-site include Chatfield-Hollis complex (CtB, CtC; 14%), Hoosic gravelly loam (HsA, HsB; 8.4%), Udorthents (Ud; 5.2%), Nassau-Cardigan complex (NwB. NwD; 5%). These soils range from very poorly drained to excessively drained, with soil textures primarily being silt loam. Table 1 lists the soil series found within the Study Area and their characteristics. Hydric ratings and hydric soil classifications are based on information obtained from the NRCS Web Soil Survey (NRCS, 2021). Although soil series may have a hydric rating in the online databases indicating hydric or potentially hydric conditions, this is for general use and does not supersede specific conditions documented in the field.

### Table 1. Study Area Soils

Mapping Unit Symbol	Series	Slope (%)	Drainage <sup>1</sup>	Hydric Rating <sup>2</sup>	Hydric Soil <sup>3</sup>
Ca	Canandaigua silt loam	0-3	VPD	95	Yes

Mapping Unit Symbol	Series	Slope (%)	Drainage <sup>1</sup>	Hydric Rating <sup>2</sup>	Hydric Soil <sup>3</sup>
CtB	Chatfield-Hollis complex	1-6	WD	1	No
CtC	Chatfield-Hollis complex	5-16	WD	1	No
DwB	Dutchess-Cardigan complex	1-6	WD	1	No
DwC	Dutchess-Cardigan complex	5-16	WD	1	No
GfB	Galway-Farmington complex	1-6	WD	1	No
GfC	Galway-Farmington complex	5-16	WD	1	No
Ha	Halsey mucky silt loam	0-3	VPD	90	Yes
HsA	Hoosic gravelly loam	0-3	SED	5	No
HsB	Hoosic gravelly loam	1-6	SED	5	No
HuA	Hoosic-Urban land complex	0-3	-	5	No
KrA	Knickerbocker fine sandy loam	0-3	SED	5	No
MnA	Massena silt loam	0-3	SPD	10	No
NwB	Nassau-Cardigan complex	1-6	SED	1	No
NwD	Nassau-Cardigan complex	15-30	SED	10	No
Pg	Pawling silt loam	0-3	MWD	5	No
Ud	Udorthents, smoothed	0-8	WD	0	No
Ur	Urban land	5-16	-	0	-
W	Water	-	-	0	-
Wy	Wayland silt loam	0-3	PD	88	Yes

<sup>1</sup> Soil drainage is represented by the following abbreviation: "SED" = somewhat excessively drained, "WD" = well drained, "MWD" = moderately well drained, and "SPD" = somewhat poorly drained, "PD" = poorly drained, and "VPD" = very poorly drained. <sup>2</sup> Map units are composed of one or more component soil types, each of which is individually rated as hydric or not hydric. The hydric rating, as provided in the USDA Web Soil Survey, indicates the percentage of the map unit that meets hydric criteria.

<sup>3</sup> "Yes" indicates that this soil series is listed as containing 66% or more hydric components within the map unit as listed on the USDA Web Soil Survey.

### 3.2 HYDROLOGY

The Study Area is located entirely within the Hudson-Wappinger Hydrologic Unit (02020008). Most of the surface hydrology within the Study Area is generated by precipitation and surface water run-off from adjacent land. The average annual precipitation from 2000 to 2020 was 40.83 inches at the nearby Poughkeepsie Airport (NOAA, 2021). The on-site wetland delineation took place during the fall of 2017, and boundaries were re-evaluated in the fall of 2021. Precipitation for the month of October 2017 was lower (3.87 inches) than the long-term average for October 2000-2021 (4.14 inches). Comparatively, precipitation

for the month of November 2021 was less (1.45 inches) than the long-term average for November 2000-2021 (3.04 inches).

Wappinger Creek, an identified USACE navigable waterway flows from northeast to southwest through the Study Area for approximately 100 linear feet. However, the USACE states that "each Section 10 waterway might not be considered navigable for its entire length." (USACE, 2021). Therefore, additional consultation with the New York USACE District is necessary to determine if the portion of Wappinger Creek which passes through the Study Area will be subject to the Section 10 Rivers and Harbor Act. Wappinger Creek has a drainage area of 181 square miles (USGS, 2021) and continues its flow southwest for approximately 4.6 miles until its convergence with the Hudson River.

### 3.3 FEDERAL AND STATE MAPPED WETLANDS AND STREAMS

National Wetland Inventory (NWI) mapping indicates the presence of eight wetlands (4.07 acres) and four streams (0.4 acre) within the Study Area (Figure 4). NWI mapping also categorizes wetlands based on their vegetative community. For NWI purposes, a single wetland with two community types is mapped as two different wetlands (USFWS, 2016). NWI mapping indicates that freshwater emergent wetlands are the dominant wetland community in the Study Area, totaling approximately 1.83 acres. Other NWI-mapped wetland communities include scrub-shrub wetlands (1.24 acres), forested wetlands (1.00 acre), and freshwater ponds (<0.01 acre). NWI mapping also indicates the presence of three perennial streams (R5, R3, and R2) within the Study Area, totaling 0.40 acre, 429 linear feet, and the presence of one intermittent stream (R4) totaling approximately 0.002 acre, 6 linear feet. As discussed in Section 4.0, field investigations indicate that numerous additional wetlands and streams likely to be under federal jurisdiction also occur within the Study Area.

Based on available NYSDEC stream classification mapping, streams within the Study Area include Class B and C waters. Protected streams and tributaries within the Study Area include Wappinger Creek and an unnamed tributary that drains into Wappinger Creek. These streams, along with all other perennial and intermittent streams in the Study Area, are anticipated to be protected by the USACE under Section 404 of the Clean Water Act. Review of NYSDEC Freshwater Wetlands mapping indicates that there are three State-regulated wetlands, totaling 3.7 acres within the Study Area (Figure 3). Two mapped wetlands are designated as Class III and one is designated as Class IV.

## 3.4 MAPPED FLOODPLAINS

According to Federal Emergency Management Agency (FEMA) map services, approximately 10.62 acres of the Study Area is within a significant flood hazard area (SFHA) (see Figure 5). This acreage is split between Zone A (2.92 acres) and Zone AE (7.7 acres), which are identified as areas subject to inundation by the 1-percent-annual-chacne-flood (i.e., the 100-year floodplain). FEMA provides the base flood elevations for areas mapped within Zone AE, which is between 107 feet and 155 feet within the Study Area (FEMA, 2021). The FEMA SFHA mapper also shows that the Study Area encompasses approximately 2.15 acres within the Zone AE regulatory floodway, which is associated with Wappinger Creek and its tributaries. FEMA defines the regulatory floodway as "the channel of a river or other watercourse and the adjacent land areas that

must be reserved in order to discharge the base flood without cumulatively increasing the water surface elevation more than a designated height." (FEMA, 2018). Additionally, the Study Area encompasses approximately 0.94 acre of the 0.2-percent-annual-chance-flood (i.e., the 500-year floodplain) which is outside of the SFHA and is defined as a moderate flood hazard.

### 3.5 VEGETATION

Land cover and vegetation occurring within the Study Area were evaluated using current NLCD mapping, which is compiled by the USGS (Yang et al., 2018), and further verified during the on-site field investigations. The Study Area encompasses approximately 37.5 acres and primarily consists of developed cover types (see Table 2).

Land Cover Class	Acres	Percent Cover (%)
Deciduous Forest	10.6	28.3
Developed, Open Space	8.7	23.2
Woody Wetlands	6.9	18.4
Developed, Low Intensity	4.9	13.1
Pasture/Hay	2.9	7.7
Developed, Medium Intensity	1.6	4.3
Grassland/Herbaceous	0.8	2.1
Shrub/Scrub	0.5	1.3
Developed, High Intensity	0.4	1.1
Mixed Forest	0.2	0.5
Total	37.5	100

## Table 2. Vegetation/Land Cover Within the Study Area

Source: NLCD 2016 (Yang et al., 2018).

# 4.0 ON-SITE WETLAND AND STREAM DELINEATION

DIEHLUX, LLC and EDR Environmental Scientists conducted field delineations of wetlands and streams at the proposed Study Area in October 2017. Wetland delineation boundaries were reevaluated by EDR environmental scientists Megan Aubertine and Kyle Crawford in November 2021.

## 4.1 METHODOLOGY

The identification of wetland boundaries was based on the methodology described in the *Corps of Engineers Wetland Delineation Manual* (Environmental Laboratory, 1987). Determination of wetland boundaries was also guided by the methodologies presented in the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region, Version 2.0* (USACE, 2012) and the *New York State* 

*Freshwater Wetland Delineation Manual* (NYSDEC, 1995). Attention was given to the identification of potential hydrologic connections between wetlands and areas that could influence their jurisdictional status.

Wetland boundaries were defined in the field with sequentially numbered pink surveyor's flagging and mapped using a GPS unit with reported sub-meter accuracy. Data were collected from sample plots in representative wetland cover types and recorded on USACE Routine Wetland Determination forms (see Appendix B). The data collected at each delineated wetland included dominant vegetation, hydrology indicators, and soil characteristics.

The Regional Supplement lists the following primary indicators of wetland hydrology: (A1) surface water, (A2) high water table, (A3) saturation, (B1) water marks, (B2) sediment deposits, (B3) drift deposits, (B4) algal mat or crust, (B5) iron deposits, (B7) inundation visible on aerial imagery, (B8) sparsely vegetated concave surface, (B9) water-stained leaves, (B13) aquatic fauna, (B15) marl deposits, (C1) hydrogen sulfide odor, (C3) oxidized rhizospheres on living roots, (C4) presence of reduced iron, (C6) recent iron reduction in tilled soils, and (C7) thick muck surface. Per the Regional Supplement, the presence of any one of these "primary" indicators is sufficient evidence that wetland hydrology is present. In addition, the Regional Supplement identifies the following secondary indicators which were also used by EDR personnel to determine wetland hydrology: (B6) surface soil cracks, (B10) drainage patterns, (B16) moss trim lines, (C2) dry-season water table, (C8) crayfish burrows, (C9) saturation visible on aerial imagery, (D1) stunted or stressed plants, (D2) geomorphic position, (D3) shallow aquitard, (D4) microtopographic relief, and (D5) FAC-neutral test. In accordance with the Regional Supplement, in the absence of a primary indicator, the presence of any two of these "secondary" indicators is considered a suitable indication of wetland hydrology.

Assessment of vegetation focused on the identification of dominant plant species in four categories: trees (greater than 3 inches diameter at breast height), saplings/shrubs (less than 3.0" inches diameter at breast height and greater than 3.2 feet tall), herbs (all vegetation less than 3.2 feet tall), and woody vines. Dominance was determined by visually estimating those species having the greatest absolute percent cover within each stratum. Wetland indicator status for dominant plant species was determined by reference to the National Wetland Plant List (USACE, 2018; USDA NRCS, 2021). Wetlands are indicated by a dominance of hydrophytic plant species.

Hydric soils are those that are poorly drained and are saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part of the soil layer. The presence of hydric soils is indicative of the presence of wetlands (Environmental Laboratory, 1987). Hydric soil conditions were determined in the field through observation of soils composition, color, and morphology. Soils data were collected by using a Dutch auger and tiling spade to examine the soil profile. Soil colors were determined using Munsell Soil Charts (Munsell Color, 2009). Information concerning soil series, color, texture, and matrix and mottle color was recorded for each delineated wetland and used to determine whether the soils displayed hydric characteristics.

Streams were identified according to the Cowardin Classification System (1979), and stream boundaries were determined based on the presence of ordinary high water line characteristics, including a "*clear*, *natural line impressed on the bank; shelving; changes in the character of soil; destruction of terrestrial* 

*vegetation; the presence of litter and debris*" (CFR, 1986). Stream boundaries were defined and mapped in the field using the same method as described above for wetlands. Stream flow regime (i.e., perennial, intermittent, or ephemeral) was determined through evaluation of hydrologic, geomorphic, and biological characteristics (NC DWQ, 2010). Data regarding stream gradient (gentle, moderate, or steep), stream bank and channel width, water depth, stream bed substrate, in-stream cover, and biological indicators were collected and recorded on stream inventory forms (see Appendix B).

Photographs were taken of each wetland and stream delineated within the Study Area. Photographs of each delineated feature are included in Appendix C.

### 4.2 RESULTS

DIEHLUX, LLC. and EDR Environmental Scientists identified 12 wetlands and 3 streams within the Study Area (see Figure 6). The data collected at each delineated wetland and stream are summarized below in Table 3. In accordance with the Cowardin et al. (1979) classification system, the waters delineated within the Study Area consist of the following community types: palustrine emergent (PEM), palustrine scrub-shrub (PSS), palustrine forested (PFO), palustrine open water (POW), and lower perennial streams (R2).

Differentiate	Latitud e of Centroi d	Latitud e of Centroi d		Wetland Acreage Within Study Area by Type <sup>2</sup>				<i>c</i> :	Linear Feet of	Anticipated	Anticipated
ID <sup>1</sup>			PEM	PSS	PFO	POW	Total	Type <sup>3</sup>	Stream Within Study Area	Federal Jurisdiction <sup>4</sup>	State Jurisdiction <sup>5</sup>
Wetland T <sup>6</sup>	41.6128	-73.8888	0.22	2.83			3.05			Yes	Yes
Wetland U <sup>6</sup>	41.6086	-73.8842	3.51				3.51			Yes	Yes
Wetland V <sup>6</sup>	41.606	-73.8824	1.91				1.91			Yes	Yes
Wetland W <sup>6</sup>	41.6026	-73.8816		1.14			1.14			Yes	No
Wetland X <sup>6</sup>	41.6015	-73.8804			0.02		0.02			Yes	No
Wetland Y <sup>6</sup>	41.6015	-73.8795		0.03			0.03			Yes	No
Wetland Z	41.6159	-73.8887	0.19				0.19			Yes	No
Wetland 3A <sup>7</sup>	41.6189	-73.8889		0.06			0.06			Yes	No
Wetland 3B <sup>7</sup>	41.6185	-73.8884			0.004		0.004			Yes	No
Wetland 3C <sup>7</sup>	41.6202	-73.8923	0.25				0.25			Yes	No
Wetland 3E <sup>7</sup>	41.6223	-73.8957		0.20			0.20			Yes	Yes
Wetland 3F	41.6175	-73.8883				0.03	0.03			No	No
Stream V	41.606	-73.8824						R2	247	Yes	No
Stream 3D	41.6214	-73.8941						R2	100	Yes	Yes
Stream 3E	41.6223	-73.8957						R2	104	Yes	Yes

### Table 3. Delineated Wetlands and Streams

Latitud	Latitud	Longitude		Wet St	land Acı udy Are	eage W a by Typ	ithin 9e²	Stream	Linear Feet of	Anticipated	Anticipated
ID <sup>1</sup>	e of of Centroi of d Centroid	PEM	PSS	PFO	POW	Total	Type <sup>3</sup>	Stream Within Study Area	Federal Jurisdiction <sup>4</sup>	State Jurisdiction⁵	

<sup>1</sup> Field ID assigned by EDR.

<sup>2</sup> Wetland community types are based upon the Cowardin et al. (1979) classification system: palustrine emergent (PEM), palustrine scrub shrub (PSS), palustrine forest (PFO), and palustrine open water (POW).

<sup>3</sup> Stream type is based upon the Cowardin et al. (1979) classification system: Lower perennial stream (R2).

<sup>4</sup> Based on visual observation of hydrologic connectivity in the field and review of available spatial data. Final jurisdictional determination to be made by the USACE.

<sup>5</sup> Based on existing NYSDEC mapping of freshwater wetlands and streams. See Sections 2.2 and 3.3 for additional information.

<sup>6</sup> Delineated wetland/stream feature is also part of TV Line and is included in the associated Wetland Delineation Report.

<sup>7</sup> Delineated wetland/stream feature is also part of G Line South and is included in the associated Wetland Delineation Report

Eleven of the delineated wetlands and three of the delineated streams included in Table 3 are expected to be considered jurisdictional by the USACE under Section 404 of the Clean Water Act. One delineated wetland (Wetland 3F) is likely to be considered non-jurisdictional because it appears to be a man-made isolated feature designed for the conveyance of stormwater runoff and aesthetic purposes.

Four delineated wetlands (Wetlands T, U, V, and 3E) appear to be under New York State jurisdiction because they overlap or are hydrologically connected with the mapped location of NYS Freshwater Wetlands WF-1, WF-34, and WF-25. Two delineated streams within the Study Area (Streams 3D, and 3E) are assumed to be protected under Article 15 of the ECL, as they appear to make up portions of a mapped NYSDEC Class B stream.

Descriptions of the delineated wetlands within the Study Area are provided below in Sections 4.2.1, while Section 4.2.2 provides descriptions of the delineated streams within the Study Area.

### 4.2.1 Wetlands

Within the Study Area, EDR identified 12 wetlands totaling 10.39 acres. Descriptions of each wetland community type are presented below. Note that many wetlands identified contained more than one community type. For all delineated wetlands within the Study Area, Table 3 indicates the area occupied by each community type.

Emergent Wetlands (PEM) – (Photos 1 through 4 in Appendix C).

A total of five wetlands identified within the Study Area contained persistent emergent vegetation. These wetlands were typically located in depressional areas within or adjacent to active agricultural fields, where sheet flow run-off precipitation from the open fields accumulates. The emergent wetlands on site were characterized by the dominance of erect rooted herbaceous wetland plants, including common reed (*Phragmites australis*), narrow-leaf cattail (*Typha angustifolia*), purple loosestrife (*Lythrum salicaria*), spotted joe-pye weed (*Eutrochium maculatum*), sensitive fern (*Onoclea sensibilis*), arrow-leaved tearthumb (*Persicaria sagittata*), and sedge species (*Carex spp*). Indicators of wetland hydrology in the emergent

wetlands included surface water (A1), a high-water table (A2), saturation (A3), water-stained leaves (B9), oxidized rhizospheres on living roots (C3), presence of reduced iron (C4), surface cracks (B6), and FAC-neutral (D5). Soils sampled within the emergent wetlands exhibited a depleted matrix (F3) and redox dark surface (F6), with low chroma matrix colors (10YR 4/1, 10YR 3/1) and high chroma redox concentrations (7.5YR 5/6. 10YR 6/1). The texture of soils in the emergent wetlands was generally characterized as clay loam. The wetland-upland transitions were generally very abrupt, with the adjacent uplands consisting of actively maintained lawns and agricultural fields.

### Scrub-Shrub Wetlands (PSS) – (Photos 5 through 6 in Appendix C)

Five wetlands within the Study Area were dominated by broad-leaved deciduous scrub-shrub vegetation. Scrub-shrub wetlands are characterized by dense stands of shrub species less than 20 feet tall. Dominant shrub species included speckled alder (*Alnus incana*), silky dogwood (*Cornus amomum*), spicebush (*Lindera benzoin*), and willows (*Salix spp.*). Common herbaceous species in scrub-shrub wetlands included sensitive fern, purple loosestrife, narrow-leaf cattail, common reed, arrow-leaved tearthumb and sedge species. Evidence of wetland hydrology included a surface water (A1), high water table (A2), saturation (A3), water marks (B1), sediment deposits (B2), water-stained leaves (B9), aquatic fauna (B13), surface soil cracks (B6), oxidized rhizospheres on living roots (C3), presence of reduced iron (C4) in the soil, and FAC-neutral test (D5). The soils within these scrub-shrub wetlands exhibited a depleted matrix (F3) and redox dark surface (F6) with low chroma matrix colors (10YR 4/1, 10YR 6/1) and high chroma redox concentrations (10YR 6/6). The texture of soils within the scrub-shrub wetlands was generally characterized as loamy. The wetland-upland transitions were generally very abrupt, with the adjacent uplands consisting of actively maintained lawns, upland deciduous forests, and agricultural fields. No wetland hydrology or hydric soil indicators were present within the upland areas.

### Forested Wetland (PFO) – (Photo 7 in Appendix C)

Two of the wetlands identified within the Study Area were characterized by broad-leaved deciduous forest vegetation, characterized by the dominance of tree species greater than 20 feet tall. Dominant overstory species included green ash *(Fraxinus pennsylvanica)*, pin oak (*Quercus palustris*), red maple (*Acer rubrum*), and American elm (*Ulmus americana*). Herbaceous species in the forested wetlands included sedges, common reed, and sensitive fern. Indicators of wetland hydrology included sediment deposits (B2), drift deposits (B3), surface soil cracks (B6), inundation visible on aerial imagery (B7), sparsely vegetated concave surface (B8), water-stained leaves (B9), presence of reduced iron (C4), saturation visible on aerial imagery (C9), and FAC-neutral (D5). The soils within these wetlands generally exhibited a depleted matrix (F3) and a redox dark surface (F6), with low chroma matrix colors (10YR 3/1, 10YR 4/1) and high chroma redox concentrations (7.5YR 6/8, 10YR 5/6). Soil textures within forested wetlands were generally characterized as silty loam. The wetland-upland transition was relatively abrupt, and generally followed site topography. Adjacent uplands were generally maintained lawns within developed areas. No indicators of hydric soil or wetland hydrology were observed in the adjacent uplands.

Open Water (POW) – (Photo 8 in Appendix C)

One wetland (Wetland 3F) with the Study Area was identified as a man-made pond characterized by sparsely vegetated surfaces with standing water. Vegetation within Wetland 3F was disturbed from regular mowing due to its location within a maintained residential area, with spike rush (*Eleocharis spp.*) being the dominant vegetation dominate. Indicators of wetland hydrology in this wetland included surface water (A1), high water table (A2), saturation (A3), saturation visible on aerial imagery (C9), and FAC-neutral (D5). The soils within this wetland exhibited a depleted matrix (F3), with dark grayish brown matrix colors (10YR 4/2) and dark yellowish brown redox concentrations (10YR 4/6) in the matrix. The texture of soils within the open water wetland was characterized as clay loam. The wetland-upland transition was abrupt, and generally followed site topography. Adjacent upland consisted of a maintained lawn within a residential area. No wetland hydrology or hydric soil indicators were present within the upland areas.

### 4.2.2 Streams

Within the Study Area, EDR identified three perennial streams totaling 451 linear feet. Most of the streams within the Study Area are adjacent to and/or within residential areas.

Stream V is a perennial stream which appears to make up portions of a mapped NYSDEC Class C stream and is a tributary to Wappinger Creek. This stream flows through Wetland V and has a gentle gradient (0-5%), with a width ranging from approximately 4 to 10 feet. The water depth at the time of the delineation appeared to be between 2 to 6 feet. Stream V had a streambed consisting of sand, silt, and clay. Stream V is characterized by having well-defined channels, strong baseflow, evidence of high-water table, and the absence of rooted upland plants in the stream bed. Biological indicators observed within Stream V included fish, and amphibians.

Stream 3D is a perennial stream that appears to make up portions of Wappinger Creek, a NYSDEC mapped Class B stream and navigable waterway. Stream 3D flows from northeast to southwest for approximately 100 linear feet within the Study Area before its convergence with the Hudson River approximately 4.6 miles southwest of the Study Area. Stream 3D has a gentle gradient (0-5%), with a width of approximately 120 feet. At the time of the delineation, the water depth along the thalweg was 2 to 6 feet. The stream bed appeared to consist of sand, silt, and clay, though this could not be verified throughout the entirety of the stream due to the steep banks and deep waters present. Stream 3D was characterized by having a strong baseflow, evidence of a high-water table, a well-defined channel, and deep pools. See photo 9 in Appendix C for a representation of characteristics used to delineate Stream 3D.

Stream 3E is also a perennial tributary to Wappinger Creek and appears to make up portions of a NYSDEC Class B stream. The stream had a gentle gradient (0-5%) with a width of 40 to 50 feet. At the time of the delineations, the water depth was 2 to 6 feet. The streambed was comprised of sand, silt, and clay. Stream 3E was characterized as having a strong baseflow, well defined channel, and evidence of a high-water table. Biological indicators observed within Stream 3E include waterfowl, fish, and macroinvertebrates. See photo 9 in Appendix C for a representation of characteristics used to delineate Stream 3E.

# 5.0 CONCLUSIONS

Within the Study Area, EDR identified twelve wetlands totaling 10.39 acres, and three perennial streams totaling 451 linear feet.

Eleven of the delineated wetlands included in Table 3 appear to have surface water connections to WOTUS or extend beyond the Study Area boundary, leaving potential connections to WOTUS unknown. It is likely that these wetlands will be considered jurisdictional by the USACE under Section 404 of the Clean Water Act. One wetland (Wetland 3F) is unlikely to be considered jurisdictional as it appears to be a man-made pond for stormwater run-off and aesthetic purposes within a residential area. Two of the three streams delineated within the Study Area are expected to be jurisdictional as they appear to make up portions of or are tributaries to Wappinger Creek. Additionally, Wappinger Creek is listed as a traditional navigable water by the USACE. Coordination with the New York USACE District will be necessary to determine if the portion of Wappinger Creek which passes through the Study Area is defined as navigable and would therefore be subject to Section 10 of the River and Harbor Act.

Four delineated wetlands are expected to fall under State jurisdiction pursuant to Article 24 of the ECL due to their occurrence within, or hydrologic connection to, wetlands included on the NYSDEC Freshwater Wetlands Maps. Additionally, streams 3D and 3E appear to make up portions of NYSDEC Class B stream and would therefore be protected under Article 15. However, final determination of jurisdictional status of all waters delineated within the Study Area must be made by the USACE and NYSDEC.

# 6.0 **REFERENCES**

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# APPENDIX A

Figures

# Figure 1. Regional Project Location





# Figure 2. Study Area Topography



Town Boundary

Study Area

# Line Replacement Project Towns of Wappinger and Poughkeepsie,

lowns of Wappinger and Poughkeepsie, Dutchess County, New York

Wetland Delineation Report



1,000

Feet

2,000

500

# Figure 3. Study Area Soils





Basemap: Esri ArcGIS Online "World Imagery" map service.



# Figure 4. Mapped Wetlands and Streams



EDR

Basemap: ESRI ArcGIS Online "World Topographic Map" map service

# Figure 5. Mapped Floodplains



# 69kV KM Electric Transmission Line Replacement Project

Towns of Wappinger and Poughkeepsie, Dutchess County, New York

Wetland Delineation Report

1% Annual Change Flood Hazard

Regulatory Floodway

0.2% Chance Annual Flood Hazard

Study Area

Г

0 500 1,000 2,000 Feet

EDR

Prepared December 17, 2021 Basemap: ESRI ArcGIS Online "World Imagery" map service.

# Figure 5. Delineated Wetlands and Streams Sheet Index



Wetland Delineation Report





Towns of Wappinger and Poughkeepsie, Dutchess County, New York

Wetland Delineation Report

EDR

- Delineated Wetland Delineated Stream
- Study Area

ppingers Falls





# 69kV KM Electric Transmission Line Replacement Project -

Towns of Wappinger and Poughkeepsie, Dutchess County, New York

Wetland Delineation Report

EDR



Delineated StreamStudy Area





Prepared December 17, 2021 Basemap: NYSDOP "Latest" orthoimagery map service.

Sheet 2 of 7



Towns of Wappinger and Poughkeepsie, Dutchess County, New York

Wetland Delineation Report

EDR



Study Area





Prepared December 17, 2021 Basemap: NYSDOP "Latest" orthoimagery map service.



Towns of Wappinger and Poughkeepsie, Dutchess County, New York

Wetland Delineation Report

EDR



Study Area





Sheet 4 of 7

# 69kV KM Electric Transmission Line Replacement Project

Towns of Wappinger and Poughkeepsie, Dutchess County, New York

### Wetland Delineation Report

EDR



Γ

Study Area





Prepared December 17, 2021 Basemap: NYSDOP "Latest" orthoimagery map service.

### Sheet 5 of 7



# 69kV KM Electric Transmission Line Replacement Project – –

Towns of Wappinger and Poughkeepsie, Dutchess County, New York

Wetland Delineation Report



Delineated Stream

Study Area

County Airport



Prepared December 17, 2021 Basemap: NYSDOP "Latest" orthoimagery map service.



# Wetland W PSS Wetland X Wetland Y PSS CR 93

# 69kV KM Electric Transmission Line Replacement Project

Towns of Wappinger and Poughkeepsie, Dutchess County, New York

Wetland Delineation Report

EDR



Study Area





Prepared December 17, 2021 Basemap: NYSDOP "Latest" orthoimagery map service.

Sheet 7 of 7

# APPENDIX B

Routine Wetland Determination Data Sheets and Stream Inventory Forms

17107 - Central Hudson G	as & Electric - KM Line Dataform 1
Project	17107 - Central Hudson Gas & Electric - KM Line
ID	195841
Survey Date	11/16/2021
User	Kyle Crawford
Town/County/State	Town of Wappinger, Dutchess County, New York
Investigator(s)	MA KC
Stream Delineation ID	Stream V
Latitude, Longitude	
Latitude	41.605589
Longitude	-73.882139
Accuracy	m
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
General Characteristics	
General characteristics	
NYSDEC Mapped Stream	Yes
NYSDEC mapped Classification	C
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	18
Stream Gradient	Gentle (0-5%)
Substrate	Gravel, Sand (Gritty feel), Silt/Clay (No grit)
OHWM width for stream reach (feet)	12
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Strong (3)
In Channel Structures	Strong (3)
Particle Size of Stream Substrate	Weak (1)
Active/Relic Floodplain	Moderate (2)
Depositional Bars or Benches	Strong (3)



Recent Alluvial Deposits	Moderate (2)
Are Headcuts present	Moderate (2)
Grade Control	Strong (1.5)
Natural Valley	Weak (0.5)
Second or Greater Order Channel	No (0)

# Hydrology

Presence of Baseflow	Strong (3)
Iron Oxidizing Bacteria	Strong (3)
Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Strong (1.5)
Organic Debris Lines or Piles	Strong (1.5)
Soil-based evidence of high water table	Yes (3)

# Biology

Fibrous Roots in Streambed	Weak (2)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Moderate (2)
Aquatic Mollusks	Absent (0)
Fish	Absent (0)
Crayfish	Absent (0)
Amphibians	Weak (0.5)
Algae	Moderate (1)
Wetland Plants in Streambed	FACW (0.75)

Stream Type Determination	
Total Score	43.75
Stream Determination	Perennial (≥30)
Photos and Notes	

### Notes



1/10/ - Central Hudson Gas & Electric - KM Line Dataform 1	
Project	17107 - Central Hudson Gas & Electric - KM Line
ID	195842
Survey Date	11/16/2021
User	Kyle Crawford
Town/County/State	Town of Poughkeepsie, Dutchess County, New York
Investigator(s)	MA KC
Stream Delineation ID	Stream 3E
Latitude, Longitude	
Latitude	41.622423
Longitude	-73.895755
Accuracy	m
Current Precipitation	None
Precipitation in Past 48 Hours	Rain
Conoral Characteristics	
NYSDEC Mapped Stream	Yes
NYSDEC mapped Classification	В
Drainage Ditch	No
Surface Water Depth at Thalweg (Inches)	24
Stream Gradient	Gentle (0-5%)
Substrate	Cobble, Gravel, Sand (Gritty feel), Silt/Clay (No grit)
OHWM width for stream reach (feet)	30
Geomorphology	
Continuity of channel bed and bank	Strong (3)
Sinuosity of channel along thalweg	Strong (3)
In Channel Structures	Strong (3)
Particle Size of Stream Substrate	Moderate (2)
Active/Relic Floodplain	Strong (3)
Depositional Bars or Benches	Strong (3)




Channel

Hydrology	
Presence of Baseflow	Strong (3)
Iron Oxidizing Bacteria	Strong (3)
Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Strong (1.5)
Organic Debris Lines or Piles	Strong (1.5)
Soil-based evidence of high water table	Yes (3)

# Biology

Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Moderate (2)
Aquatic Mollusks	Absent (0)
Fish	Moderate (1)
Crayfish	Absent (0)
Amphibians	Moderate (1)
Algae	Moderate (1)
Wetland Plants in Streambed	FACW (0.75)

Stream Type Determination	
Total Score	50.25
Stream Determination	Perennial (≥30)

### Photos and Notes

Notes



17107 - Central Hudson G	as & Electric - KM Line Dataform 1					
Project	17107 - Central Hudson Gas & Electric - KM Line					
ID	195843					
Survey Date	11/16/2021					
User	Kyle Crawford					
Town/County/State	Towns of Poughkeepsie and Wappinger, Dutchess County, New York					
Investigator(s)	MA KC					
Stream Delineation ID	Stream 3D					
Latitude, Longitude						
Latitude	41.621355					
Longitude	-73.893787					
Accuracy	m					
Current Precipitation	None					
Precipitation in Past 48 Hours	Rain					
General Characteristics						
NYSDEC Mapped Stream	Yes					
NYSDEC mapped Classification	В					
Drainage Ditch	No					
Surface Water Depth at Thalweg (Inches)	24					
Stream Gradient	Gentle (0-5%)					
Substrate	Cobble, Gravel, Sand (Gritty feel), Silt/Clay (No grit)					
OHWM width for stream reach (feet)	100					
Geomorphology						
Continuity of channel bed and bank	Strong (3)					
Sinuosity of channel along thalweg	Strong (3)					
In Channel Structures	Strong (3)					
Particle Size of Stream Substrate	Moderate (2)					
Active/Relic Floodplain	Strong (3)					
Depositional Bars or Benches	Strong (3)					
Recent Alluvial Deposits	Strong (3)					
Are Headcuts present	Moderate (2)					
Grade Control	Strong (1.5)					



Second or Greater Order

Strong (1.5)

Yes (3)

Natural Valley

Channel

Hydrology	
Presence of Baseflow	Strong (3)
Iron Oxidizing Bacteria	Strong (3)
Leaf Litter	Absent (1.5)
Sediment on Plants or Debris	Strong (1.5)
Organic Debris Lines or Piles	Strong (1.5)
Soil-based evidence of high water table	Yes (3)

# Biology

Fibrous Roots in Streambed	Absent (3)
Rooted Upland Plants in Streambed	Absent (3)
Aquatic Macroinvertebrates	Moderate (2)
Aquatic Mollusks	Absent (0)
Fish	Strong (1.5)
Crayfish	Weak (0.5)
Amphibians	Strong (1.5)
Algae	Moderate (1)
Wetland Plants in Streambed	OBL (1.5)

Stream Type Determination	
Total Score	55.5
Stream Determination	Perennial (≥30)

## **Photos and Notes**

Notes



Project/Site: Central	Hudson Tra	nsmission Rebuild		City/County: Dutches	S		Sampling Date: 1	10/10/2017
Applicant/Owner:	Central Huc	lson Gas & Electric	:		State:	NY	Sampling Point:	1T-Up-1
Investigator(s): Colin	Diehl/Travis	Money		Section, Tow	vnship, Range:	Wappin	ger	
Landform (hillside, terr	ace, etc.):	hillside	Loca	Il relief (concave, conve	x, none):conve	x	Slope	%: <u>0-5</u>
Subregion (LRR or ML	.RA): LRR	R L	at: 41.610726	Long:	-73.893739		Datum: \	NGS-84
Soil Map Unit Name:	CtB				NWI classi	fication:		
Are climatic / hydrolog	ic conditions	s on the site typical	for this time of year?	Yes X	No	(lf no, e	explain in Remarks	.)
Are Vegetation	, Soil	, or Hydrology	significantly distu	urbed? Are "Norm	al Circumstanc	es" pres	ent? Yes X	No
Are Vegetation	, Soil	, or Hydrology	naturally problem	natic? (If needed	, explain any ar	nswers ir	n Remarks.)	
		• • •						

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	ures here or in a	separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requ	Surface Soil Cracks (B6)	
Surface Water (A1)Water-Stained Leaves (B9)		Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C	3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B	7)Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (	B8)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No X Depth (inches):	
Saturation Present? Yes	No X Depth (inches): Wet	land Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous inspections	), if available:
Remarks:		
Unusually dry Autumn		

Sampling Point: 1T-Up-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
3.       4.				Total Number of Dominant Species Across All Strata:2(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3.				FACU species 60 x 4 = 240
4.				UPL species 25 x 5 = 125
5.				Column Totals: 85 (A) 365 (B)
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7				Hydrophytic Vegetation Indicators:
··		-Total Covor		1 Papid Tast for Hydrophytic Vagetation
Horb Stratum (Plot size: 10 by 15')				2. Dominance Test in >50%
<u>Heid Stratum</u> (Plot size. <u>10 by 15</u> )	45		54.011	
	45	res	FACU	$3 - \text{Prevalence index is } \le 3.0$
2. Toxicodendron radicans		Yes		data in Remarks or on a separate sheet)
3. Verbascum thapsus	15	No	FACU	
4				Problematic Hydrophytic Vegetation ' (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All berbaceous (non-woody) plants, regardless
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sen	arate sheet			
		•)		

SOIL
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Profile Desc	cription: (Describe	to the de	pth needed to doo	cument	the indi	cator or o	confirm the absenc	e of indi	icators.)	
Depth	Matrix		Redox	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks
0-4	10YR 4/4	100							some g	gravel
4-8	7.5YR 3/4	100							silt lo	bam
8-14	10YR 3/4	100								
						·				
		·				·				
						·				
						·				
						<u> </u>				
1						<u> </u>	2			
'Type: C=C	oncentration, D=Dep	pletion, RM	1=Reduced Matrix,	MS=Ma	isked Sai	nd Grains	Location:	PL=Pore	e Lining, M=N	latrix.
Hydric Soil	Indicators:		Daharahar Dah	<b>•</b> • •	(00)		Indicators	tor Prot	olematic Hyd	
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8) (	LRR R,	2 cm N	uck (A1	0) ( <b>LRR K, L</b>	, MLRA 149B)
	pipedon (A2)		MLRA 1498	5) 5 (00				rairie R	edox (A16) (I	
	ISUC (A3)		High Chromo	lace (Se Sondo (	9) (LKK F 911) (LB		149B)5 cm iv	ucky Pe	at or Peat (S	$(\mathbf{L}\mathbf{R}\mathbf{R}\mathbf{R},\mathbf{L},\mathbf{R})$
	d Lovora (AE)			Sanus (	511) ( <b>LR</b> (E1) ( <b>LR</b>	RR,L)	Polyval			$O(\mathbf{LKKK}, \mathbf{L})$
	d Bolow Dark Surfac	·o (A11)		Motrix	(F1) ( <b>LR</b> (E2)	κ κ, L)				
Depieter	ark Surface (A12)		Loanly Gleyed	iviau ix iv (E3)	(ГZ)		Riedmo	nt Eloor	e Masses (F Inlain Soile (F	12) (LKK K, L, K) 10) ( <b>MI DA 1/9</b> 8
Sandy A	Aucky Mineral (S1)		Bedox Dark Si	urface (l	E6)		Mesic 9	Snodic ("	τΔ6) ( <b>ΜΙ ΒΔ</b>	1446 145 149B
Sandy G	Sleved Matrix (S4)		Redex Bark Of	Surface	- (F7)		Red Pa	rent Ma	terial (F21)	144, 140, 1400)
Sandy F	Redox (S5)		Bedox Depres	sions (F	-8)		Verv S	nallow D	ark Surface (	(F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K. L)	0)		Other (	Explain i	in Remarks)	)
Dark Su	Inface (S7)			, _/				_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	( )									
<sup>3</sup> Indicators o	f hydrophytic vegeta	ition and w	etland hydrology m	nust be	present,	unless di	sturbed or problemat	c.		
Restrictive	Layer (if observed)	:	, , , , , , , , , , , , , , , , , , , ,		· · · ·		•			
Type:										
Depth (i	nches).						Hydric Soil Pres	ent?	Yes	No X
Remarks:	m is revised from N	orthoontro	and Northaast Do	aional S	unnlomo	nt Voroio	n 2.0 ta inaluda tha l		old Indicator	of Undria Saila
Version 7.0.	2015 Errata, (http://	www.nrcs.	usda.gov/Internet/F	SE DC	CUMEN	TS/nrcs1	42p2 051293.docx)			s of Frydric Solis,
- ,			<b>J</b>	_			1_11			

Project/Site: Central Hudson Transmission Rebuild	City/County: DutchessSampling Date: 10/10/2017
Applicant/Owner: Central Hudson Gas & Electric	State: NY Sampling Point: 1T-Wet-1
Investigator(s): Colin Diehl/Travis Money	Section, Township, Range: Wappinger
Landform (hillside, terrace, etc.): hillside Lc	cal relief (concave, convex, none): <u>convex</u> Slope %: <u>0-5</u>
Subregion (LRR or MLRA):         LRR R         Lat:         41.6133	Long: _73.8901 Datum: WGS 84
Soil Map Unit Name: Ca	NWI classification: PSS
Are climatic / hydrologic conditions on the site typical for this time of year	ar? Yes X No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly di	sturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation, Soil, or Hydrologynaturally probl	ematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.

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

Sampling Point: 1T-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:6 (A)
3 4				Total Number of Dominant Species Across All Strata: <u> </u>
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1. Acer rubrum	25	Yes	FAC	FACW species x 2 =
2. Cornus amomum	20	Yes	FACW	FAC species x 3 =
3. Ilex verticillata	15	Yes	FACW	FACU species x 4 =
4. Cornus amomum	15	Yes	FACW	UPL species x 5 =
5				Column Totals: (A)(B)
6				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	75	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 10 by 15' )				X 2 - Dominance Test is >50%
1. Lythrum salicaria	40	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Carex spp.	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Onoclea sensibilis	15	No	FACW	data in Remarks or on a separate sheet)
4. Impatiens capensis	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All berbaceous (non-woody) plants, regardless
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Verstation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sen	arate sheet	)		
		•)		

SOIL
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	cription: (Describe	to the de	pth needed to do	cument	the indi	cator or	confirm the absence	e of indica	ators.)	
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks
0-4	10YR 4/2	100								
4-10	10YR 4/1	85	7.5YR 5/4	15	c	<u>m</u>	Loamy/Clayey		some co	obbles
10-16	10YR 3/1	50	10YR 5/6	15	с		Loamy/Clayey			
			7.5YR 6/1	35	c	m		Promi	nent redox	concentrations
<sup>1</sup> Type: C=C	concentration, D=Dep	oletion, RN	/I=Reduced Matrix,	MS=Ma	sked Sa	nd Grains	s. <sup>2</sup> Location: F	PL=Pore L	ining, M=N	latrix.
Hydric Soil	Indicators:						Indicators f	or Proble	ematic Hyd	ric Soils':
Histosol	l (A1)		Polyvalue Bel	ow Surfa	ice (S8)	(LRR R,	2 cm M	uck (A10)	(LRR K, L	, MLRA 149B)
Histic E	pipedon (A2)		MLRA 149E	<b>3</b> ) fa a a (CO				rairie Rec	10X (A16) (I	
	ilslic (A3)		Thin Dark Sur	Tace (59	) (LKK F 211) /I B		149B)5 CM M	ucky Pear	or Peat (S	$(\mathbf{LRR}\mathbf{K},\mathbf{L},\mathbf{R})$
	d Lavors (A5)		Fligh Chroma	Minoral	511)( <b>LR</b> (E1)( <b>LR</b>	$\mathbf{R} \mathbf{R} \mathbf{R}$	Polyvail			$\mathbf{D}(\mathbf{LKKK},\mathbf{L})$
	d Below Dark Surfac	ο (Δ11)		Matrix /	(F2)	(( ( , L)	Iron-Ma	nganese l	- (39) ( <b>LRI</b> Masses (F1	
Thick D	ark Surface (A12)		X Depleted Matr	rix (F3)	(12)		Piedmo	nt Floodol	ain Soils (F	19) ( <b>MI RA 149</b> R)
Sandy M	Mucky Mineral (S1)		Bepleted Math	urface (F	-6)		Mesic S	nodic (TA	6) ( <b>MI RA</b>	144A 145 149B)
Sandy (	Gleved Matrix (S4)		Depleted Dark	surface	e (F7)		Red Par	rent Mater	rial (F21)	
Sandy F	Redox (S5)		Bedox Depres	sions (F	8)		Very Shallow Dark Surface (F22) Other (Explain in Remarks)			
Stripper	1 Matrix (S6)		Narl (F10) (I F	RRKI)	0)					
Dark Su	urface (S7)			, =/					rtomantoj	
3										
Restrictive	Laver (if observed)	ition and v	vetland hydrology r	nust be j	oresent,	unless di	sturbed or problemati	C.		
Туре:		•								
Depth (i	inches):						Hydric Soil Prese	nt?	Yes	No
Remarks: This data fo	rm is revised from No	orthcentra	l and Northeast Re	egional S	uppleme	ent Versio	n 2.0 to include the N	IRCS Fiel	d Indicators	s of Hydric Soils,

Project/Site: Centra	al Hudson T	ransmission Rebui	ld	City/	County: Dutche	SS		Sampling Date: 10/10/2017
Applicant/Owner:	Central H	udson Gas & Elect	ric			State:	NY	Sampling Point:
Investigator(s): Coli	n Diehl/Trav	vis Money			Section, To	wnship, Range:	Wappir	nger
Landform (hillside, te	errace, etc.)	none		Local relief	(concave, conve	ex, none): <u>none</u>		Slope %:5
Subregion (LRR or M	ILRA): LR	RR	Lat:	41.611281	Long:	-73.887121		Datum: WGS-84
Soil Map Unit Name	Са					NWI class	ification	:
Are climatic / hydrolo	ogic conditic	ons on the site typic	al for	this time of year?	Yes X	No	(If no,	explain in Remarks.)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "Norn	nal Circumstand	ces" pre	sent? Yes X No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If needed	l, explain any a	nswers	in Remarks.)
								_

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	res here or in a	separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is requ	lired; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C	C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (E	37)Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface	(B8)	FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches): We	tland Hydrology Present? Yes No X			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspections	s), if available:			
Remarks:					
Unusually dry Autumn					

Sampling Point: 1T-Up-2

<u>Tree Stratum</u> (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1			FACU	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: (A)
3			FACU	Total Number of Dominant
4.				Species Across All Strata: <u>3</u> (B)
5.				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1				FACW species 0 x 2 = 0
2				FAC species x 3 =
3				FACU species <u>35</u> x 4 = <u>140</u>
4				UPL species60 x 5 =300
5				Column Totals: 95 (A) 440 (B)
6				Prevalence Index = B/A =4.63
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				2 - Dominance Test is >50%
1. Festuca spp.	40	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Taraxacum officinale	20	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Dactylis glomerata	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Galium aparine	15	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

SOIL
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Profile Desc	cription: (Describe	to the de	pth needed to doo	ument	the indi	cator or	confirm the absence	of indicators	.)	
Depth	Matrix		Redox	<pre>&lt; Feature</pre>	res					
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-6	7.5YR 3/4	100							sandy	
6-12	10YR 4/4	100						s	ome cobbl	es
12-16	10YR 3/6	100							silt loam	
	oncentration D-Der					nd Grain	<sup>2</sup> l ocation:		M-Matri	v
Hydric Soil				1013-1016	iskeu Ja		Indicators	or Problemati	ic Hydric	^. Soils <sup>3,</sup>
Histosol	(A1)		Polyvalue Belo	w Surfa	ace (S8)	LRR R.	2 cm M	uck (A10) (LR	R K. L. MI	RA 149B)
Histic Fr	oipedon (A2)		MLRA 149B	)		(,	Coast F	Prairie Redox (A	(LRR	K. L. R)
Black Hi	istic (A3)		Thin Dark Surf	, ace (SS	)) ( <b>LRR F</b>	R. MLRA	149B) 5 cm M	uckv Peat or P	eat (S3) (I	LRR K. L. R)
Hydroge	en Sulfide (A4)		High Chroma S	Sands (	S11) ( <b>LR</b>	R K, L)	Polyval	ue Below Surfa	ice (S8) (L	,,,,,,,
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LF</b>	RR K, L)	Thin Da	irk Surface (S9	) (LRR K,	L)
Depleted	d Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix	(F2)	. ,	Iron-Ma	nganese Mass	es (F12) (	LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmo	nt Floodplain S	Soils (F19)	(MLRA 149B)
Sandy M	/lucky Mineral (S1)		Redox Dark Su	urface (	F6)		Mesic S	podic (TA6) ( <b>N</b>	ILRA 144	A, 145, 149B)
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surfac	e (F7)		Red Pa	rent Material (F	21)	
Sandy F	Redox (S5)		Redox Depres	sions (F	-8)		Very Sh	allow Dark Su	rface (F22	:)
Stripped	l Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )	)		Other (I	Explain in Rem	arks)	
Dark Su	rface (S7)									
3										
Indicators o	f hydrophytic vegeta	tion and v	vetland hydrology m	iust be	present,	unless di	sturbed or problemati I	С.		
Type	Layer (If observed)									
Durth (							likadaia Qali Daaa		_	
Depth (I	nches):						Hydric Soil Prese	nt? Ye	s	NO X
Remarks:										
This data for	m is revised from N	orthcentra	and Northeast Reg	gional S		ent Versio	on 2.0 to include the N	IRCS Field Ind	icators of	Hydric Soils,
	2015 Ellata. (http://	www.incs	.usua.gov/internet/i			110/1103	142p2_001290.000X)			

Project/Site: Central	Hudson Trar	smission Rebuild	d	Ci	ty/County: Dutche	SS		Sampling Date: 1	0/10/2017
Applicant/Owner:	Central Hud	son Gas & Electri	ic			State:	NY	Sampling Point:	1T-Wet-2
Investigator(s): Colin	Diehl/Travis	Money			Section, To	wnship, Range: <u>\</u>	Wapping	ger	
Landform (hillside, terr	race, etc.):	hillside		Local reli	ef (concave, conve	ex, none):convex	(	Slope	%: <u>0-5</u>
Subregion (LRR or ML	RA): LRR	R	Lat:	41.6114	Long:	-73.8875		Datum: V	VGS 84
Soil Map Unit Name:	Ca					NWI classi	fication:	PEM	
Are climatic / hydrolog	ic conditions	on the site typica	al for t	his time of year?	Yes X	No	(If no, e	explain in Remarks.	)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed	l? Are "Norn	nal Circumstance	es" pres	ent? Yes <u>X</u> I	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic	? (If needed	l, explain any an	swers ir	n Remarks.)	
SUMMARY OF FI	INDINGS -	- Attach site	map	showing sample	ing point loca	tions, transe	cts, in	nportant featur	res, etc.

Hydrophytic Vegetation Present?	Yes	X	No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	X	No	
Wetland Hydrology Present?	Yes	X	No	
Remarks: (Explain alternative procedure	s here or	in a se	parate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; of	check all that apply)	X Surface Soil Cracks (B6)
Surface Water (A1) X	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roo	ots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	(C6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes No	o X Depth (inches):	
Water Table Present? Yes No	o X Depth (inches):	
Saturation Present? Yes X No	Depth (inches): 4	Wetland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspec	tions), if available:
Remarks:		
Unusually dry Autumn		

Sampling Point: 1T-Wet-2

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3				Total Number of Dominant Species Across All Strata:2(B)
5.           6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')		•		OBL species x 1 =
<u> </u>				FACW species x 2 =
2				FAC species x 3 =
3		·		FACU species x 4 =
· · · · · · · · · · · · · · · · · · ·				
4		·		Column Totolo: (A) (P)
5.		·		
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15' )				X 2 - Dominance Test is >50%
1. Lythrum salicaria	40	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Carex spp.	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Phalaris arundinacea	15	No	FACW	data in Remarks or on a separate sheet)
4. Eutrochium maculatum	15	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 Phragmites australis	5	No	FACW	
6				'Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
7				Definitions of Vogetation Strate:
·		·		Demitions of Vegetation Strata.
o 9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12.				Herb All herbasseus (nen woody) planta, regardlage
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:				
				Woody vines – All woody vines greater than 3.28 ft in height
				noight.
2				Hydrophytic
3		·		Vegetation
4		·		Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

SOIL
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Profile Des	cription: (Describe	to the d	epth needed to do	cument	the indi	cator or	confirm the absence of in	dicators.)	
Depth	Matrix		Redo	x Featur	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks
0-4	10YR 4/2	100							
4-8	10YR 4/1	85	7.5YR 5/6	15	с	m	Loamy/Clayey	some gi	avel
8-12	10YR 3/1	50	10YR 6/8	25	c		Loamy/Clayey		
			10YR 6/2	25	с	m	[	Distinct redox co	oncentrations
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, R	M=Reduced Matrix,	MS=Ma	isked Sa	nd Grain	s. <sup>2</sup> Location: PL=Po	re Lining, M=Ma	atrix.
Hydric Soil	Indicators:				(00)		Indicators for Pro	oblematic Hydr	ic Soils <sup>3</sup> :
Histosol	(A1) ninodon (A2)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Muck (A	10) ( <b>LRR K, L</b> , Rodox (A16) ( <b>I</b>	MLRA 149B)
Black H	istic (A3)		Thin Dark Sur	) face (S9			149B) 5 cm Mucky F	Peat or Peat (S3	$(\mathbf{I} \mathbf{R} \mathbf{R} \mathbf{K} \mathbf{I} \mathbf{R})$
Hydroge	en Sulfide (A4)		High Chroma	Sands (S	S11) (LR	R K, L)	Polyvalue Bel	ow Surface (S8	) (LRR K, L)
Stratifie	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LF</b>	RRK,L)	Thin Dark Su	face (S9) ( <b>LRR</b>	K, L)
Deplete	d Below Dark Surfac	e (A11)	X Loamy Gleyed	I Matrix (	(F2)	-	Iron-Mangane	se Masses (F1	2) ( <b>LRR K, L, R</b> )
Thick D	ark Surface (A12)		X Depleted Matr	ix (F3)			Piedmont Flo	odplain Soils (F	19) ( <b>MLRA 149B</b> )
Sandy M	/lucky Mineral (S1)		X Redox Dark S	urface (F	F6)		Mesic Spodic	(TA6) ( <b>MLRA 1</b>	44A, 145, 149B)
Sandy C	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent M	aterial (F21)	
Sandy F	Redox (S5)		Redox Depres	sions (F	8)		Very Shallow	Dark Surface (F	-22)
Stripped	d Matrix (S6)		Marl (F10) ( <b>LF</b>	<b>RR K, L</b> )			Other (Explain	n in Remarks)	
<sup>3</sup> Indicators o	of hydrophytic vegeta	tion and	wetland hydrology m	nust be j	present,	unless di	sturbed or problematic.		
Restrictive	Layer (if observed)	:							
Type:									
Depth (i	nches):						Hydric Soil Present?	Yes	No
Remarks: This data for Version 7.0,	rm is revised from No 2015 Errata. (http://	orthcentra	al and Northeast Re s.usda.gov/Internet/F	gional S FSE_DC	Suppleme DCUMEN	ent Versic	on 2.0 to include the NRCS 142p2_051293.docx)	Field Indicators	of Hydric Soils,

Project/Site: Cent	ral Huds	on Transmission Reb	uild	City/	County: Dutche	SS		Sampling Date: 10/	10/2017
Applicant/Owner:	Centi	al Hudson Gas & Ele	ectric			State:	NY	Sampling Point: I	U-Up-1
Investigator(s): Co	lin Diehl/	Travis Money			Section, To	wnship, Range:	Wappin	iger	
Landform (hillside, t	terrace, e	etc.): none		Local relief	(concave, conve	ex, none): <u>none</u>		Slope %:	0-5
Subregion (LRR or	MLRA):	LRR R	Lat:	41.609716	Long:	-73.884980		Datum: WO	3S-84
Soil Map Unit Name	e: <u>MnA</u>					NWI class	ification	:	
Are climatic / hydro	logic cor	ditions on the site typ	oical for	this time of year?	Yes X	No	(If no,	explain in Remarks.)	
Are Vegetation	, Soil	, or Hydrolog	у	significantly disturbed?	Are "Norn	nal Circumstanc	es" pres	sent? Yes X No	) <u> </u>
Are Vegetation	, Soil	, or Hydrolog	у	naturally problematic?	(If needed	l, explain any ar	nswers i	n Remarks.)	
				_		-		_	

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area           within a Wetland?         Yes         NoX           If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	ures here or in a	separate report.)	•

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is requ	Surface Soil Cracks (B6)			
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)		
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B	7)Other (Explain in Remarks)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (	B8)	FAC-Neutral Test (D5)		
Field Observations:				
Surface Water Present? Yes	No X Depth (inches):			
Water Table Present? Yes	No X Depth (inches):			
Saturation Present? Yes	No X Depth (inches): Wetla	nd Hydrology Present? Yes No X		
(includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·		
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspections),	if available:		
Remarks:				
Unusually dry Autumn				

Sampling Point: IU-Up-1

<u>Tree Stratum</u> (Plot size: <u>15 by 30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:0(A)
3.       4.				Total Number of Dominant Species Across All Strata:2(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15 by 20')				OBL species 0 x 1 = 0
1				FACW species 0 x 2 = 0
2.				FAC species 0 x 3 = 0
3.				FACU species 40 x 4 = 160
4.		·		UPL species 55 x 5 = 275
5				Column Totals: 95 (A) 435 (B)
·		·		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7		·		Hudrophytic Vegetation Indicators
1.				A Denid Test for Understation
		- Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15 )				
1. Festuca spp.	35	Yes	UPL	3 - Prevalence Index is ≤3.0'
2. Dactylis glomerata	20	Yes	UPL	4 - Morphological Adaptations' (Provide supporting
3. Solidago canadensis	10	No	FACU	uata in Nemarks of on a separate sheet)
4. Plantago major	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Galium aparine	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6. Taraxacum officinale	10	No	FACU	be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Semling/should Weady plants loss than 2 in DDU
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.		·		
	95	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines - All woody vines greater than 3.28 ft in
1		·		height.
2				
3				Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	)		

SOIL
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Profile Desc	ription: (Describe	to the de	epth needed to do	cument	the indi	cator or	confirm the absence of indicators.)
Depth	Matrix		Redo	x Featur	es		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-4	10YR 4/4	100					sandy
4-10	10YR 4/6	100					silt loam with gravel
10-16	10YR 3/4	100					
<sup>1</sup> Type: C=C	oncentration. D=Der		M=Reduced Matrix.	MS=Ma	 isked Sa	nd Grain	as. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E	oipedon (A2)		MLRA 1498	<b>B</b> )			Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Sur	face (S9	9) (LRR F	R, MLRA	<b>149B</b> )5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LF</b>	RRK,L)	Thin Dark Surface (S9) (LRR K, L)
Depleted	d Below Dark Surfac	æ (A11)	Loamy Gleyed	Matrix	(F2)		Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matr	ix (F3)			Piedmont Floodplain Soils (F19) (MLRA 1498
	iucky Mineral (S1)		Redox Dark S	urrace (I	F6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy C	Bieyed Matrix (54)		Depieted Dark	Surface	= (F7)		
Sandy F	(S5)		Redox Depres	sions (F	-8)		Very Shallow Dark Surface (F22)
Dork Su	Matrix (S6)		Mari (F10) (LF	(R K, L)			Other (Explain in Remarks)
<sup>3</sup> Indicators o	f hydrophytic vegeta	ition and v	wetland hydrology n	nust be	present,	unless d	listurbed or problematic.
Restrictive	Layer (if observed)	:					
Туре:							
Depth (i	nches):						Hydric Soil Present? Yes No X
Remarks:							
This data for	m is revised from No	orthcentra	al and Northeast Re	gional S		ent Versio	on 2.0 to include the NRCS Field Indicators of Hydric Soils,
version 7.0,	2015 Errata. (http://	www.nrcs	.usda.gov/internet/i	-SE_DC	JCOMEN	115/nrcs	142p2_051293.docx)

Project/Site: Central I	-ludson Transmissio	on Rebuild		City/County: Dutches	s		Sampling Date:	10/10/2017
Applicant/Owner:	Central Hudson Ga	& Electric			State:	NY	Sampling Point	:: 1U-Wet-1
Investigator(s): Colin [	Diehl/Travis Money			Section, Tov	wnship, Range:	Wapping	- jer	
Landform (hillside, terra	ace, etc.):		Local r	elief (concave, conve	- ex, none): <u>conca</u> v	ve	Slope	» %:    0-5
Subregion (LRR or MLF	RA): LRR R	Lat: 41	.6093	Long:	-73.8848		Datum:	WGS 84
Soil Map Unit Name:	Са				NWI classi	fication:	PEM	
Are climatic / hydrologi	c conditions on the	site typical for this	time of year?	Yes X	No	(lf no, e	explain in Remarks	s.)
Are Vegetation	Soil, or Hy	drologysig	nificantly disturb	bed? Are "Norm	nal Circumstanc	es" prese	ent? Yes X	No
Are Vegetation	Soil, or Hy	drologynat	turally problema	tic? (If needed	l, explain any ar	swers in	ו Remarks.)	
SUMMARY OF FI	NDINGS – Attac	ch site map sl	howing sam	pling point locat	tions, transe	ects, in	nportant featu	ıres, etc.
Hydrophytic Vegetatio	n Present?	Ves X M		Is the Sampled A	roa			

Hydrophytic Vegetation Present?	Yes	<u> </u>	NO	Is the Sampled Area
Hydric Soil Present?	Yes	Х	No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu	es here or	in a s	eparate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	X_Surface Soil Cracks (B6)
X Surface Water (A1) X Water-Stained Leaves (B9)	Drainage Patterns (B10)
X High Water Table (A2) X Aquatic Fauna (B13)	Moss Trim Lines (B16)
X Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
X Water Marks (B1) X Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2) Oxidized Rhizospheres on Living Ro	bots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) X Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils	s (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): 2	
Water Table Present? Yes X No Depth (inches)	
Saturation Present? Yes X No Depth (inches):	Wetland Hydrology Present? Yes X No
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)	Wetland Hydrology Present?       Yes X       No         ections), if available:
Saturation Present?       Yes       X       No       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present?       Yes X       No         ections), if available:
Saturation Present?       Yes X       No       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:	Wetland Hydrology Present?       Yes X       No         ections), if available:
Saturation Present?       Yes X       No       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No Depth (inches):         (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No       Depth (inches):         (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspe         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No Depth (inches):         (includes capillary fringe)	Wetland Hydrology Present? Yes X No
Saturation Present?       Yes X       No	Wetland Hydrology Present? Yes X No

Sampling Point: 1U-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3. 4.				Total Number of Dominant Species Across All Strata:2(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1				FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15' )				X_2 - Dominance Test is >50%
1. Onoclea sensibilis			FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phragmites australis	15	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lythrum salicaria	10	No	FACW	data in Remarks or on a separate sheet)
4. Carex stricta	35	Yes	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Matteuccia struthiopteris			FAC	<sup>1</sup> Indiastara of hydric coil and watland hydrology must
6. Typha angustifolia	35	Yes	OBL	be present, unless disturbed or problematic.
7. Carex spp.			FACW	Definitions of Vegetation Strata:
8. Osmunda regalis			OBL	Tree Modely plants 2 in (7.6 cm) or more in
9. Persicaria sagittata			FACW	diameter at breast height (DBH), regardless of height.
10. Vaccinum amoneum			FACW	Senting/shrub Weedy plants loss than 2 in DBU
11. Equisetum spp.			FACW	and greater than or equal to 3.28 ft (1 m) tall.
12. Microstegium vimineum			FAC	Have All borbaccous (non-woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )				Weady vince All weady vince greater than 2.29 ft in
1.				height.
2.				
3.				Hydrophytic Verentian
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a ser	parate sheet	)		
		•)		

## SOIL

Depth	Matrix				the man		commu				
(inches)	<b>.</b>		Redox	x Featur		. 2	_		_		
<u> </u>	Color (moist)		Color (moist)		Туре	Loc	Тех	ture	F	emark	S
8-16	10YR 2/1	100								muck	
	10YR 5/1	100					Loamy	/Clayey			
		· ·					,				
		· ·				<u> </u>					
		· ·									
		· ·									
		/									
		· ·					-				
<sup>1</sup> Type: C=Con	centration, D=Dep	oletion, RN	I=Reduced Matrix,	MS=Ma	sked Sar	nd Grains	s. <sup>2</sup>	<sup>2</sup> Location: PL=F	Pore Lining,	M=Mat	rix.
Hydric Soil Inc	dicators:							Indicators for P	roblematic	Hydric	: Soils <sup>3</sup> :
Histosol (A	(1)		Polyvalue Belo	ow Surfa	ice (S8) (	LRR R,	-	2 cm Muck	(A10) ( <b>LRR</b>	K, L, N	ILRA 149B)
Histic Epip	edon (A2)		MLRA 149B	5)			-	Coast Prairi	e Redox (A1	6) ( <b>LR</b>	R K, L, R)
Black Histi	c (A3)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA	149B) _	5 cm Mucky	Peat or Pea	at (S3)	(LRR K, L, R)
X Hydrogen S	Sulfide (A4)		High Chroma S	Sands (	S11) ( <b>LR</b>	R K, L)	-	Polyvalue B	elow Surfac	e (S8)	(LRR K, L)
Stratified L	ayers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	<b>R K, L</b> )	-	Thin Dark S	urface (S9)		(, L)
Depleted B	Below Dark Surfac	ce (A11)	Loamy Gleyed	Matrix	(F2)		-	Iron-Mangar	nese Masses	s (F12)	(LRR K, L, R)
	Surface (A12)		X Depleted Matri	IX (F3)	-6)		-	Pleamont Fl	oodpiain So		9) (MILRA 1498
	wod Matrix (S4)		Redux Dark St	Surface (I	-0) (E7)		-	Nesic Spou	Matarial (E2	<b>RA 14</b> 1)	4A, 145, 149D)
Sandy Rec	$\frac{1}{2}$		Depieted Dark	sions (F	5 (17 <i>)</i> 8)		-	Very Shallov	w Dark Surfa	י) וכפ (E2	2)
Stripped M	latrix (S6)		Marl (F10) (LR	2 <b>R K</b> . L)	0)		-	Other (Expla	ain in Remar	ks)	
Dark Surfa	ce (S7)		(1.10) (	, _/			-				
<sup>3</sup> Indicators of h	ydrophytic vegeta	ation and v	/etland hydrology m	nust be j	oresent, i	unless di	sturbed o	problematic.			
Restrictive La	yer (if observed)	:									
Туре:											
	hes):						Hydric	Soil Brocont?	Vaa	v	No

Project/Site: Central	Hudson Tr	ansmission Rebuild		City/C	County: Dutches	ss		Sampling Date:	10/10/2017
Applicant/Owner:	Central Hu	udson Gas & Electri	С			State	: NY	Sampling Point:	: 1V-Wet-1
Investigator(s): Colin	Diehl/Travi	is Money			Section, Tov	wnship, Range	: Wappin	ger	
Landform (hillside, ter	race, etc.):			Local relief (	concave, conve	ex, none): <u>conc</u>	ave	Slope	9%: <u>0-5</u>
Subregion (LRR or ML	LRA): LRI	RR I	_at: 4	41.6067	Long:	-73.8829		Datum:	WGS 84
Soil Map Unit Name:	HsB					NWI clas	sification	: PEM	
Are climatic / hydrolog	gic condition	ns on the site typical	l for tl	his time of year?	Yes X	No	(If no,	explain in Remarks	s.)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "Norm	nal Circumstar	ices" pres	sent? Yes X	No
Are Vegetation	, Soil	, or Hydrology	ı	naturally problematic?	(If needed	l, explain any a	answers i	n Remarks.)	
SUMMARY OF F	INDINGS	3 – Attach site n	nap	showing sampling	y point locat	tions, trans	ects, ii	mportant featu	ıres, etc.
									-

Hydrophytic Vegetation Present?	Yes	Х	No	Is the Sampled Area
Hydric Soil Present?	Yes	х	No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures h	nere or	in a se	eparate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requir	X Surface Soil Cracks (B6)	
Surface Water (A1)	X Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	ots (C3)Saturation Visible on Aerial Imagery (C9)	
X Drift Deposits (B3)	Stunted or Stressed Plants (D1)	
X Algal Mat or Crust (B4)	(C6) Geomorphic Position (D2)	
Iron Deposits (B5)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7	Microtopographic Relief (D4)	
X Sparsely Vegetated Concave Surface (E	38)	X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes		
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes X No
Saturation Present? Yes (includes capillary fringe)	No         X         Depth (inches):	Wetland Hydrology Present? Yes X No
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):	Wetland Hydrology Present?     Yes X     No       tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):	Wetland Hydrology Present?     Yes X     No       tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: Unusually dry Autumn	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: Unusually dry Autumn	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: Unusually dry Autumn	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: Unusually dry Autumn	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: Unusually dry Autumn	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: Unusually dry Autumn	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: Unusually dry Autumn	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mo Remarks: Unusually dry Autumn	No X Depth (inches):	Wetland Hydrology Present? Yes X No tions), if available:

Sampling Point: 1V-Wet-1

<u>Tree Stratum</u> (Plot size: <u>15 by 30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:2 (A)
3 4				Total Number of Dominant Species Across All Strata:2(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1. Acer rubrum	15	Yes	FAC	FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				X 2 - Dominance Test is >50%
1. Phragmites australis	75	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Onoclea sensibilis	15	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Equisetum spp.	5	No	FACW	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				· · · · · · · · · · · · · · · · ·
6		·		'Indicators of hydric soil and wetland hydrology must
7				Definitions of Vegetation Strata:
8				
9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
10				dameter at breast height (DDH), regardless of height.
11.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	95	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
2				
3.				Hydrophytic
4				Vegetation Present? Yes X No
T		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

SOIL
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Profile Description: (Describe to the o	depth needed to doo	cument	the indi	cator or	confirm the absence of in	dicators.)	
Depth Matrix	Redo	x Featur	es				
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rem	arks
0-2 10YR 3/1 100							
2-8 10YR 4/1 80	7.5YR 5/6	20	c	m	Loamy/Clayey		
8-14 10YR 3/1 75	10YR 6/1	25	с	m	Loamy/Clayey	some	gravel
8-14       10YR 3/1       75	10YR 6/1	25 MS=Ma MS=Ma ow Surfa (Mineral Matrix ( ix (F3) urface (F3) urface (F3) urface (F3) ix (F3) urface (F3) must be p gional S SE_DC	 	m m m m m m m m m m m m m m m m m m m	Loamy/Clayey	re Lining, M=I oblematic Hy 10) (LRR K, I Redox (A16) ( Peat or Peat (S ow Surface (S9) (LR se Masses (F odplain Soils ( (TA6) (MLRA laterial (F21) Dark Surface n in Remarks) Yes Field Indicator	gravel

Project/Site: Centra	I Hudson Trans	mission Rebuild	City		Sampling Date:	10/10/2017		
Applicant/Owner:	Central Hudso	on Gas & Electric			State:	NY	Sampling Point:	IV-Up-1
Investigator(s): Colir	Diehl/Travis N	oney	Section, Township, Range: Wappinger					
Landform (hillside, te	rrace, etc.): <u>r</u>	Local relief	al relief (concave, convex, none):none Slope %: 0-5					
Subregion (LRR or M	LRA): LRR R	Lat:	41.606577	Long: -73.8	383107		Datum:	WGS-84
Soil Map Unit Name:	HsB			1	NWI classifi	ication:		
Are climatic / hydrolo	gic conditions c	n the site typical for	this time of year?	Yes X	No	(If no, e	xplain in Remarks	.)
Are Vegetation	, Soil,	or Hydrology	significantly disturbed?	Are "Normal Cir	rcumstance	s" prese	ent? Yes X	No
Are Vegetation	, Soil,	or Hydrology	_naturally problematic?	(If needed, expl	lain any ans	swers in	Remarks.)	
			_					

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:			
Hydric Soil Present?	Yes	No X				
Wetland Hydrology Present?	Yes	No X				
Remarks: (Explain alternative procedures here or in a separate report.)						

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

Sampling Point: IV-Up-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus americana	25	Yes	FACU	Number of Dominant Species
2. Acer rubrum	15	Yes	FAC	That Are OBL, FACW, or FAC: 1 (A)
3. Malus angustifolia	15	Yes	FACU	Total Number of Dominant
4.				Species Across All Strata: 8 (B)
5.				Percent of Dominant Species
6.				That Are OBL, FACW, or FAC: <u>12.5%</u> (A/B)
7.				Prevalence Index worksheet:
	55	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1. Fraxinus americana	30	Yes	FACU	FACW species 0 x 2 = 0
2. Lonicera tatarica	25	Yes	FACU	FAC species x 3 =45
3				FACU species <u>155</u> x 4 = <u>620</u>
4. Prunus serotina			FACU	UPL species10 x 5 =50
5. Acer saccharum			FACU	Column Totals: 180 (A) 715 (B)
6. Fagus grandifolia			FACU	Prevalence Index = B/A = <u>3.97</u>
7. Betula alleghaniensis			FAC	Hydrophytic Vegetation Indicators:
	55	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				2 - Dominance Test is >50%
1. Dactylis glomerata	20	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	10	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Toxicodendron radicans	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Parthenocissus quinquefolia	20	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hvdric soil and wetland hvdrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9			FACU	diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11. Asclepias syriaca			FACU	and greater than or equal to 3.28 ft (1 m) tall.
12. Daucus carota			UPL	Herb – All herbaceous (non-woody) plants, regardless
	70	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present?         Yes         No _X
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	)		

Profile Desc	cription: (Describe	to the de	epth needed to doo	cument	the indi	cator or	confirm the absence	of indicators.)	
Depth	Matrix		Redox	x Featu	res				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks
0-2	7.5YR 3/4	100						some	e cobbles
2-8	7.5YR 4/3	100						sil	t loam
8-16	10YR 4/4	100							
<sup>1</sup> Type: C=C	oncentration D=Der	letion RI	M=Reduced Matrix	MS=Ma	sked Sa	nd Grains	<sup>2</sup> Location: P	I=Pore Lining M	
Hvdric Soil	Indicators:						Indicators fo	or Problematic F	Ivdric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Mu	ıck (A10) ( <b>LRR K</b>	, L, MLRA 149B)
Histic E	pipedon (A2)		MLRA 149B	5)			Coast Pr	rairie Redox (A16	) (LRR K, L, R)
Black Hi	istic (A3)		Thin Dark Surf	face (SS	) (LRR F	R, MLRA	149B)5 cm Mu	icky Peat or Peat	(S3) ( <b>LRR K, L, R</b>
Hydroge	en Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)	Polyvalu	e Below Surface	(S8) ( <b>LRR K, L</b> )
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dar	k Surface (S9) ( <b>L</b>	<b>.RR K, L</b> )
Depleted	d Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix	(F2)		Iron-Mar	nganese Masses	(F12) ( <b>LRR K, L, R</b>
Thick Da	ark Surface (A12)		Depleted Matri	ix (F3)			Piedmor	nt Floodplain Soils	s (F19) ( <b>MLRA 149</b>
Sandy M	Aucky Mineral (S1)		Redox Dark Si	urface (	F6)		Mesic Sp	podic (TA6) ( <b>MLF</b>	XA 144A, 145, 149E
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surface	e (⊢7)		Red Pare	ent Material (F21	)
Sandy F	(edox (S5)		Redox Depres		-8)		Very Sha	allow Dark Surfac	;e (F22)
Supped	rface (S7)			( <b>K K</b> , L)				xplain in Remark	5)
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and	wetland hydrology m	nust be	present,	unless di	sturbed or problematic		
Restrictive	Layer (if observed)								
Type:									•• • • •
Depth (I	nches):						Hydric Soil Preser	nt? Yes_	NoX
Remarks:	m is revised from N	orthoontr	and Northeast Da	aional C		nt Varaia	n 2.0 to include the NI	DCC Field Indiant	toro of Lludric Coilo
Version 7.0.	2015 Errata. (http://	www.nrcs	.usda.gov/Internet/F	SE DC	CUMEN	ITS/nrcs1	42p2 051293.docx)		ors of riguite soils,
,			0	_			1 _ ,		

Project/Site: Central	Hudson Transmission	Rebuild	City/County: Dutchess					10/10/2017
Applicant/Owner:	Central Hudson Gas &	Electric			State:	NY	Sampling Poin	t: IW-Up-1
Investigator(s): Colin	Diehl/Travis Money		Section, Township, Range: Wappinger					
Landform (hillside, terr	ace, etc.): <u>none</u>		Local relie	f (concave, conve	ex, none):none		Slope	e %: <u>0-5</u>
Subregion (LRR or ML	RA): LRR R	Lat: 41.6	)2535	Long:	-73.881950		Datum:	WGS-84
Soil Map Unit Name:	DwB				NWI class	ification	:	
Are climatic / hydrolog	ic conditions on the sit	e typical for this ti	me of year?	Yes X	No	(If no,	explain in Remark	(s.)
Are Vegetation	, Soil, or Hydro	ologysigni	icantly disturbed?	Are "Norn	nal Circumstanc	es" pres	sent? Yes X	No
Are Vegetation	, Soil, or Hydro	ologynatu	ally problematic?	(If needed	d, explain any ar	nswers i	n Remarks.)	
					-			

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:				
Hydric Soil Present?	Yes	No X					
Wetland Hydrology Present?	Yes	No X					
Remarks: (Explain alternative procedures here or in a separate report.)							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is requ	lired; check all that apply)	Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)	
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C	C3) Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (E	37)Other (Explain in Remarks)	Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface	(B8)	FAC-Neutral Test (D5)	
Field Observations:			
Surface Water Present? Yes	No X Depth (inches):		
Water Table Present? Yes	No X Depth (inches):		
Saturation Present? Yes	No X Depth (inches): We	tland Hydrology Present? Yes No X	
(includes capillary fringe)			
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspections	s), if available:	
Remarks:			
Unusually dry Autumn			

Sampling Point: IW-Up-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus americana	30	Yes	FACU	Number of Demission Operation
2. Acer saccharum	25	Yes	FACU	That Are OBL, FACW, or FAC: 0 (A)
3. Acer rubrum	20	Yes	FACU	Total Number of Deminent
4.				Species Across All Strata: 7 (B)
5.				
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
	75	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species 0 x 1 = 0
1. Fraxinus americana	30	Yes	FACU	FACW species 0 x 2 = 0
2.				FAC species $0 \times 3 = 0$
3.				FACU species 160 x 4 = 640
4.				UPL species 25 x 5 = 125
5.				Column Totals: 185 (A) 765 (B)
6.				Prevalence Index = B/A = 4.14
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				2 - Dominance Test is >50%
1. Solidago canadensis	35	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Toxicodendron radicans	25	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Parthenocissus quinquefolia	20	Yes	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree Weedy plants 2 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Semling/should Weady plants less than 2 in DBU
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )				Weady vince All weady vince greater than 2.29 ft in
1.				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

Profile Desc	cription: (Describe	to the de	pth needed to do	cument	the indi	cator or	confirm the absence of indicators.)
Depth	Matrix		Redo	x Featur	res		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-4	10YR 4/3	100					sandy
4-8	10YR 4/6	100					some gravel
8-14	10YR 3/4	100					silt loam
	oncentration, D=Dep	Diletion, RM	 л=Reduced Matrix,	  MS=Ma			ns. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Histosol Histic Eµ Black Hi Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy F Stripped Dark Su	Indicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surface ark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) I Matrix (S6) rface (S7)	æ (A11)	Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark St Depleted Dark Redox Depres Marl (F10) (LF	ow Surfa 3) face (S9 Sands (: Mineral I Matrix ix (F3) urface (I c Surface sions (F <b>RR K, L</b> )	ace (S8) ( 9) ( <b>LRR F</b> S11) ( <b>LR</b> (F1) ( <b>LR</b> (F2) F6) e (F7) F8)	(LRR R, R, MLRA R K, L) R K, L)	Indicators for Problematic Hydric Soils <sup>3</sup> : 2 cm Muck (A10) (LRR K, L, MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (F22) Other (Explain in Remarks)
<sup>3</sup> Indicators o	f hydrophytic vegeta	ition and v	vetland hydrology m	nust be	present,	unless di	listurbed or problematic.
Restrictive	Layer (if observed)	:					
Depth (i	nches):						Hydric Soil Present? Yes No X
Remarks:	, <u> </u>						
This data for Version 7.0,	m is revised from No. 2015 Errata. (http://	orthcentra www.nrcs	I and Northeast Re .usda.gov/Internet/F	gional S FSE_DC	Suppleme DCUMEN	nt Versic	on 2.0 to include the NRCS Field Indicators of Hydric Soils, 142p2_051293.docx)

Project/Site: Central Hudso	on Transmission Rebuil	d	City/County: Dutches	s	Sam	pling Date:	10/10/2017
Applicant/Owner: Centr	al Hudson Gas & Electr	ic		State:	NY Sa	mpling Point	: <u>1W-Wet-1</u>
Investigator(s): Colin Diehl/	Travis Money		Section, Tov	vnship, Range: <u>N</u>	√appinger		
Landform (hillside, terrace, e	etc.):	L	ocal relief (concave, conve	x, none):concave	e	Slope	∍%: <u>0-5</u>
Subregion (LRR or MLRA):	LRR R	Lat: 41.6026	Long:	-73.8817		Datum:	WGS 84
Soil Map Unit Name: DwB				NWI classifi	cation: PSS	3	
Are climatic / hydrologic con	iditions on the site typic	al for this time of ye	ar? Yes <u>X</u>	No	(If no, explaiı	n in Remark	s.)
Are Vegetation, Soil	, or Hydrology	significantly d	isturbed? Are "Norm	al Circumstance	s" present?	Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally prob	lematic? (If needed	, explain any ans	wers in Rem	ıarks.)	
SUMMARY OF FINDI	NGS – Attach site	map showing s	sampling point locat	ions, transec	cts, impor	tant featu	ures, etc.

Hydrophytic Vegetation Present?	Yes	Х	No	Is the Sampled Area
Hydric Soil Present?	Yes	Х	No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures	here or	in a se	eparate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required; check all that apply)	X Surface Soil Cracks (B6)			
X Surface Water (A1) X Water-Stained Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)			
Saturation (A3)Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1) Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2) Oxidized Rhizospheres on Living Ro	oots (C3) X Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3) X Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soil	s (C6) Geomorphic Position (D2)			
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)			
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)			
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)			
Field Observations:				
Surface Water Present? Yes X No Depth (inches): 2				
Water Table Present? Yes No X Denth (inches):				
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No			
Saturation Present?     Yes     No     X     Depth (inches):       (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No			
Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present?       Yes X       No         ections), if available:			
Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present?       Yes X       No         ections), if available:       Image: Section Sectin Section Section Section Section Section Section Sectin			
Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective)	Wetland Hydrology Present?       Yes X       No         ections), if available:			
Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:	Wetland Hydrology Present?       Yes X       No         ections), if available:			
Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No			
Saturation Present?       Yes       No       X       Depth (include).         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective.         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No			
Notion Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective Remarks:         Unusually dry Autumn	Wetland Hydrology Present? Yes X No			
Notion Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No			
Notion Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No			
Notion Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No			
Notion Present?       Yes       No       X       Depth (include).         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective.         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No			
Notion Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:       Unusually dry Autumn	Wetland Hydrology Present? Yes X No			
Saturation Present?       Yes       No       X       Depth (inches):         (includes capillary fringe)         Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspective         Remarks:         Unusually dry Autumn	Wetland Hydrology Present? Yes X No			

Sampling Point: 1W-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.		·		Number of Dominant Species That Are OBL, FACW, or FAC:5(A)
3.       4.				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1. Cornus amomum	35	Yes	FACW	FACW species x 2 =
2. Rhamnus cathartica	35	Yes	FAC	FAC species x 3 =
3. Salix spp.	30	Yes	FACW	FACU species x 4 =
4				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	100	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				X 2 - Dominance Test is >50%
1. Lythrum salicaria	40	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Typha angustifolia	30	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Onoclea sensibilis	15	No	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
5		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7		·		Definitions of Vanetation Strate:
<i>1.</i>				Deminitions of vegetation Strata:
o 9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb - All berbaceous (non-woody) plants, regardless
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum       (Plot size:)         1.				Woody vines – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sen	arate sheet			1
		,		

## SOIL

Profile Desc	cription: (Describe	to the de	epth needed to do	cument	the indi	cator or	confirm the absence o	f indicators.)
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 4/1	100						
10-16	5YR 5/1	75	10YR 6/6	25	с	m	Loamy/Clayey	some cobbles/gravel
<sup>1</sup> Type: C=C	oncentration, D=Dep		M=Reduced Matrix,	 MS=Ma	 sked Sa	 nd Grains	s. <sup>2</sup> Location: PL=	=Pore Lining, M=Matrix.
Hydric Soil	Indicators:		· · · · ·				Indicators for	Problematic Hydric Soils <sup>3</sup> :
Histosol Histic E Black Hi	(A1) pipedon (A2) istic (A3)		Polyvalue Belo MLRA 149E Thin Dark Surf	ow Surfa 8) face (S9	ace (S8) ) ( <b>LRR F</b>	(LRR R, R, MLRA	2 cm Mucł Coast Prai 149B)5 cm Mucł	< (A10) ( <b>LRR K, L, MLRA 149B</b> ) irie Redox (A16) ( <b>LRR K, L, R</b> ) <y (<b="" (s3)="" or="" peat="">LRR K, L, R)</y>
Hydroge	en Sulfide (A4)		High Chroma	Sands (S	S11) ( <b>LR</b>	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)
Stratifie	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LF</b>	RR K, L)	Thin Dark	Surface (S9) (LRR K, L)
Deplete	d Below Dark Surfac	e (A11)	Loamy Gleyed	I Matrix (	(F2)		Iron-Mang	anese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	ark Surface (A12)		X Depleted Matr	ix (F3)			Piedmont	Floodplain Soils (F19) ( <b>MLRA 149B</b>
Sandy M	/lucky Mineral (S1)		Redox Dark S	urface (F	=6)		Mesic Spo	odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parer	nt Material (F21)
Sandy F	Redox (S5)		Redox Depres	sions (F	8)		Very Shall	ow Dark Surface (F22)
Stripped	l Matrix (S6)		Marl (F10) (LF	RR K, L)			Other (Exp	olain in Remarks)
Dark Su	rface (S7)							
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and \	vetland hydrology n	nust be j	present,	unless di	sturbed or problematic.	
Restrictive	Layer (if observed)	:						
Туре:								
Depth (i	nches):						Hydric Soil Present	? Yes <u>X</u> No
Remarks: This data for Version 7.0,	rm is revised from No 2015 Errata. (http://	orthcentra www.nrcs	al and Northeast Re .usda.gov/Internet/f	gional S FSE_DC	uppleme DCUMEN	ent Versic	n 2.0 to include the NR( l42p2_051293.docx)	CS Field Indicators of Hydric Soils,

Project/Site: Cent	tral Hudson T	ransmission Rebui	ld	City/0	County: Dutche	SS		Sampling Date: 10/10/20	17
Applicant/Owner:	Central H	udson Gas & Elect	tric			State	: <u>NY</u>	Sampling Point: IX-Up	-1
Investigator(s): Co	olin Diehl/Trav	vis Money			Section, To	wnship, Range	: Wappir	nger	
Landform (hillside,	terrace, etc.)	hillside		Local relief	concave, conve	ex, none): <u>conv</u>	ex	Slope %:5	5
Subregion (LRR or	MLRA): LR	RR	Lat:	41.601509	Long:	-73.880329		Datum: WGS-84	
Soil Map Unit Nam	e: DwB					NWI clas	sificatior	n:	
Are climatic / hydro	logic conditio	ons on the site typic	al for	this time of year?	Yes X	No	(If no,	, explain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "Norn	nal Circumstan	ces" pre	esent? Yes X No	_
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If needed	l, explain any a	answers	in Remarks.)	÷
				-					

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	ires here or in a	separate report.)	

Primary Indicators (minimum of one is required; check all that apply) Surface Soil Cracks (B6)				
Surface Water (A1)Water-Stained Leaves (B9)Drainage Patterns (B10)	Drainage Patterns (B10)			
High Water Table (A2)Aquatic Fauna (B13)Moss Trim Lines (B16)	3) Moss Trim Lines (B16)			
Saturation (A3) Marl Deposits (B15) Dry-Season Water Table (C2)				
Water Marks (B1) Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)				
Sediment Deposits (B2) Oxidized Rhizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9	)			
Drift Deposits (B3) Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4) Recent Iron Reduction in Tilled Soils (C6) Geomorphic Position (D2)				
Iron Deposits (B5) Thin Muck Surface (C7) Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8) FAC-Neutral Test (D5)				
Field Observations:				
Surface Water Present? Yes No X Depth (inches):				
Water Table Present? Yes No X Depth (inches):				
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Present? Yes No	X			
(includes capillary fringe)				
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:				
Remarks:				
Unusually dry Autumn				

Sampling Point: IX-Up-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus strobus	45	Yes	FACU	
2. Rhamnus cathartica	25	Yes	FAC	Number of Dominant Species That Are OBL. FACW. or FAC: 1 (A)
3. Fraxinus americana	20	Yes	FACU	
4.				I otal Number of Dominant Species Across All Strata: 9 (B)
5.				
6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 11.1% (A/B)
7.				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species 0 x 1 = 0
1. Fraxinus americana	30	Yes	FACU	FACW species 0 x 2 = 0
2. Lonicera tatarica	35	Yes	FACU	FAC species 25 x 3 = 75
3. Pinus strobus	15	No	FACU	FACU species 235 x 4 = 940
4.				UPL species 30 x 5 = 150
5.				Column Totals: 290 (A) 1165 (B)
6.				Prevalence Index = B/A = 4.02
7				Hydrophytic Vegetation Indicators:
	115	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				2 - Dominance Test is >50%
1. Solidago canadensis	35	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Toxicodendron radicans	30	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Parthenocissus quinquefolia	20	Yes	FACU	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				I hadro who sto
3				Vegetation
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

Profile Des	cription: (Describe	to the de	epth needed to do	cument	the indi	cator or	confirm the absence of indicators.)	
Depth	Matrix		Redo	x Featu		. 2		
(inches)	Color (moist)		Color (moist)		Туре	Loc	lexture Remarks	
0-2	7.5YR 3/4	100						
2-8	10YR 4/4	100						
8-12	10YR 3/4	100					silt loam	
	· · · · · · · · · · · · · · · · · · ·							
	·							
	·							
						nd Croin	21 contion: Di-Doro Lining M-Matrix	
Hydric Soil	Indicators:	neuon, Ri	M-Reduced Matrix,	1013-1018	iskeu Sa	nu Grain	Indicators for Problematic Hydric Soils <sup>3</sup> :	
Histoso	I (A1)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149	B)
Histic E	pipedon (A2)		MLRA 1498	3)			Coast Prairie Redox (A16) (LRR K, L, R	)
Black H	istic (A3)		Thin Dark Sur	face (SS	9) (LRR F	R, MLRA	149B) 5 cm Mucky Peat or Peat (S3) (LRR K, I	<b>_, R</b> )
Hydroge	en Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)	Polyvalue Below Surface (S8) (LRR K, L	.)
Stratifie	d Layers (A5) d Balaw Dark Surfac	o (A 1 1)	Loamy Mucky	Mineral	(F1) ( <b>L</b> F (F2)	RRK,L)	Thin Dark Surface (S9) (LRR K, L)	I D\
	a Below Dark Surfac	e (ATT)	Loamy Gleyed		(FZ)		Iron-Manganese Masses (F12) (LRR K,	L, R)
Sandy M	Mucky Mineral (S1)		Bedox Dark Si	urface (	F6)		Mesic Spodic (TA6) (MI RA 144A 145 1	149B)
Sandy (	Gleved Matrix (S4)		Depleted Dark	Surfac	e (F7)		Red Parent Material (F21)	
Sandy F	Redox (S5)		Redox Depres	sions (F	- (0 - ) - 8)		Verv Shallow Dark Surface (F22)	
Stripped	d Matrix (S6)		Marl (F10) (LF	RRK,L)	- /		Other (Explain in Remarks)	
Dark Su	urface (S7)			. ,			,	
3								
Indicators of Restrictive	t hydrophytic vegeta	tion and v	wetland hydrology n	nust be	present,	unless di	listurbed or problematic.	
Туре:								
Depth (i	inches):						Hydric Soil Present? Yes No _X	(
Remarks:								
This data fo	rm is revised from No	orthcentra	al and Northeast Re	gional S	Suppleme	ent Versio	on 2.0 to include the NRCS Field Indicators of Hydric S	oils,
Version 7.0,	2015 Errata. (http://	www.nrcs	.usda.gov/Internet/I	-SE_DO	COMEN	IIS/nrcs	142p2_051293.docx)	
Project/Site: Central Hudson Transmission Rebuild	City/County: Dutchess	Sampling Date: 10/10/2017						
-----------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------	---------------------------------	--	--	--	--	--	
Applicant/Owner: Central Hudson Gas & Electric	State: NY	Sampling Point: <u>1X-Wet-1</u>						
Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Wappinger								
Landform (hillside, terrace, etc.): hillside	Slope %: <u>5-10</u>							
Subregion (LRR or MLRA): LRR R Lat:	41.6014 Long: -73.8805	Datum: WGS 84						
Soil Map Unit Name: DwB	NWI classification:	PFO						
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)								
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circumstances" pres	ent? Yes X No						
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answers in	n Remarks.)						
SUMMARY OF FINDINGS – Attach site map	o showing sampling point locations, transects, in	nportant features, etc.						
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area							
Hydric Soil Present? Yes X	No within a Wetland? Yes X	No						
Wetland Hydrology Present? Yes X	No If yes, optional Wetland Site ID:							
Remarks: (Explain alternative procedures here or in a se Drainage feature/man-made detention area from neighbo	separate report.) poring building/parking lot							

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)X Water-Stained Leave	s (B9) Drainage Patterns (B10)
High Water Table (A2) Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3) Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide Ode	or (C1) Crayfish Burrows (C8)
X Sediment Deposits (B2) Oxidized Rhizosphere	s on Living Roots (C3) X Saturation Visible on Aerial Imagery (C9)
X Drift Deposits (B3) X Presence of Reduced	Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Reductio	n in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface (C	.7) Shallow Aquitard (D3)
X Inundation Visible on Aerial Imagery (B7) Other (Explain in Ren	narks) Microtopographic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inche	s):
Water Table Present? Yes No X Depth (inche	is):
Saturation Present? Yes No X Depth (inche	es): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections), if available:
Remarks:	
Remarks: Unusually dry Autumn	

Sampling Point: 1X-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet:
1 Umus americana	25	Voc		Dominance rest worksneet.
		165	FACW	Number of Dominant Species
2.				$\frac{1}{1}$
3				Total Number of Dominant
4				Species Across All Strata:3 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
	35	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1. Fraxinus pennsylvanica	15	Yes	FACW	FACW species x 2 =
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum(Plot size: 10 by 15' )				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	5	No	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phragmites australis	75	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Carex spp.	5	No	FACW	data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
7				Definitions of Verstation Strate:
·				Deminitions of Vegetation Strata.
0.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	85	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Ub dae also die
3				Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet	.)		

SOIL
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Depth (inches)       Matrix       Redox Features         0-4       7.5YR 3/1       100       ************************************	Profile Des	cription: (Describe	to the d	epth needed to do	cument	the indi	cator or	confirm the absenc	e of indic	cators.)	
(inches)       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks         0-4       7.5YR 3/1       100	Depth	Matrix		Redo	x Featur	res					
0-4         7.5YR 3/1         100           4-10         10YR 4/1         80         7.5YR 5/4         20         c         m         Loamy/Clayey         some cobbles/gravel           10-14         10YR 3/1         75         10YR 6/6         25         c         m         Loamy/Clayey         some cobbles/gravel	(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	arks
4-10       10YR 4/1       80       7.5YR 5/4       20       c       m       Loamy/Clayey       some cobbles/gravel         10-14       10YR 3/1       75       10YR 6/6       25       c       m       Loamy/Clayey       some cobbles/gravel         10-14       10YR 3/1       75       10YR 6/6       25       c       m       Loamy/Clayey       some cobbles/gravel         10-14       10YR 3/1       75       10YR 6/6       25       c       m       Loamy/Clayey       some cobbles/gravel         10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       10       <	0-4	7.5YR 3/1	100								
10-14       10YR 3/1       75       10YR 6/6       25       c       m       Loamyl/Clayey       some cobbles/gravel	4-10	10YR 4/1	80	7.5YR 5/4	20	c	m	Loamy/Clayey		some cobb	les/gravel
Image: Specific Construction       Image: Cons	10-14	10YR 3/1	75	10YR 6/6	25	с	m	Loamy/Clayey		some cobb	les/gravel
Type:	10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10-14 10	oncentration, D=Dep Indicators: (A1) pipedon (A2) istic (A3) en Sulfide (A4) d Layers (A5) d Below Dark Surfac ark Surface (A12) /lucky Mineral (S1) Gleyed Matrix (S4) Redox (S5) d Matrix (S6) irface (S7) of hydrophytic vegeta Layer (if observed): nches): mis revised from No 2015 Errata. (http://o	 		25 25 25 MS=Ma MS=Ma bw Surfa Sands (S Mineral Matrix ( Sands (S Mineral Matrix ( Sands (S Sands (S Sands (S Sands (S Mineral Matrix ( Sands (S Sands (S San	 	    	Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy/Clayey Loamy	PL=Pore for Prob for Prob fuck (A10 Prairie Re fucky Pea lue Below ark Surfac anganese ont Flood Spodic (T arent Mate hallow Da Explain ir tic.	Some cobb some cobb some cobb Lining, M=M lematic Hyd D) (LRR K, L edox (A16) (I at or Peat (S V Surface (Se ce (S9) (LRF e Masses (F1 plain Soils (F A6) (MLRA erial (F21) ark Surface ( n Remarks) Yes eld Indicators	latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. latrix. lat

Project/Site: Cer	ntral Hudso	on Transmission Reb	uild	City	Sampling Date: 10/10/2017			
Applicant/Owner:	Centr	al Hudson Gas & Ele	ctric			State:	NY	Sampling Point: <u>IY-Up-1</u>
Investigator(s): C	olin Diehl/	Travis Money			Section, To	wnship, Range:	Wappin	nger
Landform (hillside	, terrace, e	etc.): none		Local relief	Slope %: 0-5			
Subregion (LRR o	or MLRA):	LRR R	Lat:	41.601621	Long:	-73.879545		Datum: WGS-84
Soil Map Unit Nar	ne: <u>DwB</u>					NWI class	ification	:
Are climatic / hydr	ologic con	ditions on the site typ	ical for	this time of year?	Yes X	No	(lf no,	explain in Remarks.)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "Norn	nal Circumstand	es" pre	sent? Yes X No
Are Vegetation	, Soil	, or Hydrology	,	naturally problematic?	(If needed	d, explain any a	nswers i	in Remarks.)
				_		-		_

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	ures here or in a	separate report.)	

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

Sampling Point: IY-Up-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2				
4				Total Number of Dominant Species Across All Strata: 4 (B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1. Lonicera tatarica	25	Yes	FACU	FACW species 0 x 2 = 0
2. Rhus typhina	25	Yes	UPL	FAC species X 3 = 30
3				FACU species 85 x 4 = 340
4.				UPL species 50 x 5 = 250
5				Column Totals: 145 (A) 620 (B)
6				Prevalence Index = B/A = 4.28
7				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				2 - Dominance Test is >50%
1. Rubus lawrencei	10	No	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	25	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Rubus allegheniensis	10	No	FACU	data in Remarks or on a separate sheet)
4. Toxicodendron radicans	25	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Phytolacca americana	10	No	FACU	<sup>1</sup> Indicators of hydric soil and wotland hydrology must
6. Plantago major	10	No	FACU	be present, unless disturbed or problematic.
7. Parthenocissus quinquefolia	5	No	FACU	Definitions of Vegetation Strata:
8.				Tree Modely plants 2 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Senting/shrub Weedy plants less than 2 in DBU
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )				We address of the standard them 2.20 ft in
1.				height.
2.				
3.				Hydrophytic
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		
· · · ·		,		

SOIL
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Profile Desc	ription: (Describe	to the d	epth needed to do	cument	the indi	cator or	confirm the absence of indicators.)			
Depth	Matrix		Redo	x Featur	es					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks			
0-6	10YR 3/3	100					some cobbles			
6-10	10YR 4/4	100								
10-16	7.5YR 2.5/3	100					silt loam			
<sup>1</sup> Type: C=C	oncentration, D=Dep	oletion, R	M=Reduced Matrix,	MS=Ma	isked Sa	nd Grain	ns. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.			
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Histic E	oipedon (A2)		MLRA 149E	8)			Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )			
Black Hi	stic (A3)		Thin Dark Sur	face (S9	)) (LRR F	R, MLRA	<b>149B</b> )5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )			
Hydroge	n Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)			
Stratified	l Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)			
Depleted	Below Dark Surfac	æ (A11)	Loamy Gleyed	I Matrix	(F2)		Iron-Manganese Masses (F12) (LRR K, L, R)			
Thick Da	ark Surface (A12)		Depleted Matr	ix (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B			
Sandy M	lucky Mineral (S1)		Redox Dark S	urface (l	F6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)			
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent Material (F21)			
Sandy F	edox (S5)		Redox Depres	sions (F	8)		Very Shallow Dark Surface (F22)			
Stripped	Matrix (S6)		Marl (F10) (LF	RRK,L)			Other (Explain in Remarks)			
Dark Su	rface (S7)		( ) (	, ,						
3										
Restrictive	f hydrophytic vegeta Laver (if observed)	ition and	wetland hydrology n	nust be	present,	unless di	listurbed or problematic.			
Туре:		-								
Depth (i	nches):						Hydric Soil Present? Yes No X			
Remarks:										
This data for	m is revised from N	orthcentra	al and Northeast Re	gional S	Suppleme	ent Versio	on 2.0 to include the NRCS Field Indicators of Hydric Soils,			
Version 7.0,	2015 Errata. (http://	www.nrcs	.usda.gov/Internet/I	FSE_DC	CUMEN	ITS/nrcs <sup>2</sup>	142p2_051293.docx)			

Project/Site: Central Hudson T	ransmission Rebuild	City/	County: Dutchess		Sampling Date: 10/10/2017
Applicant/Owner: Central H	ludson Gas & Electric			State: NY	Sampling Point: <u>1Y-Wet-1</u>
Investigator(s): Colin Diehl/Trav	vis Money		Section, Township, I	Range: Wapping	er
Landform (hillside, terrace, etc.):	:	Local relief	(concave, convex, none)	):concave	Slope %: 0-5
Subregion (LRR or MLRA): LR	RR Lat:	41.6015	Long: -73.879	96	Datum: WGS 84
Soil Map Unit Name: DwB			NW	✓I classification:	PSS
Are climatic / hydrologic conditio	ons on the site typical for	this time of year?	Yes X No	) (If no, e	xplain in Remarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circu	imstances" prese	ent? Yes X No
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, explair	າ any answers in	Remarks.)
SUMMARY OF FINDINGS	S – Attach site ma	o showing samplin	g point locations, t	transects, im	portant features, etc.

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply	X Surface Soil Cracks (B6)
Surface Water (A1) X Water-Stained Le	aves (B9) Drainage Patterns (B10)
High Water Table (A2)Aquatic Fauna (B	13) Moss Trim Lines (B16)
Saturation (A3)Marl Deposits (B1	5) Dry-Season Water Table (C2)
X Water Marks (B1) Hydrogen Sulfide	Odor (C1) Crayfish Burrows (C8)
X Sediment Deposits (B2) Oxidized Rhizosp	neres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) X Presence of Redu	ced Iron (C4) Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4) Recent Iron Redu	ction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface	e (C7) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in	Remarks) Microtopographic Relief (D4)
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (ir	iches):
Water Table Present? Yes No X Depth (ir	iches):
Saturation Present? Yes No X Depth (in	iches): Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks:	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks: Unusually dry Autumn	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks: Unusually dry Autumn	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks: Unusually dry Autumn	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks: Unusually dry Autumn	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks: Unusually dry Autumn	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks: Unusually dry Autumn	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks: Unusually dry Autumn	os, previous inspections), if available:
Describe Recorded Data (stream gauge, monitoring well, aerial pho Remarks: Unusually dry Autumn	os, previous inspections), if available:

Sampling Point: 1Y-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3.				Total Number of Dominant
4				Species Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of Multiply by
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x1 =
1. Quercus bicolor	20	Yes	FACW	FACW species x 2 =
2. Cornus amomum	35	Yes	FACW	FAC species x 3 =
3. Fraxinus pennsylvanica	5	No	FACW	FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	60	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	15	No	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phragmites australis	5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lythrum salicaria	55	Yes	FACW	data in Remarks or on a separate sheet)
4. Equisetum spp.	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				diameter at breast height (DBH), regardless of height.
10.				Sanling/abrub Weady plants loss than 2 in DPH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Horb All herbaceous (non weedy) plants, regardless
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines - All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

SOIL
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Redox Feature           oist)         %           5/6         10           5/4         20           5/4         20	res <u>Type</u> <sup>1</sup> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u>	<u>Loc<sup>2</sup></u>	Texture         Loamy/Clayey         Loamy/Clayey		Remarks some gravel	
oist) % 5/6 10 5/4 20 	   	Loc <sup>2</sup>	Loamy/Clayey Loamy/Clayey		Remarks some gravel	
5/6 10 5/4 20 	 		Loamy/Clayey Loamy/Clayey		some gravel	
5/6 <u>10</u> 5/4 <u>20</u> 			Loamy/Clayey Loamy/Clayey		some gravel	
5/4         20			Loamy/Clayey			
			2			
			2			
			2			
			2			
Matrix, MS=Ma			2			
Matrix, MS=Ma			2			
Matrix, MS=Ma			2			
Matrix, MS=Ma	  asked Sar	 	2			
Matrix, MS=Ma	  asked Sar		2			
Matrix, MS=Ma	 asked Sar		21			
Matrix, MS=Ma	 asked Sar		21			
Matrix, MS=Ma	asked Sar		2			
Matrix, MS=Ma	asked Sar		2			
Matrix, MS=Ma	isked Sar		2			
ue Delous Surfe		nd Grains.	<sup>2</sup> Location:	PL=Pore Lini	ing, M=Matrix.	
lue Deleur Curfe			Indicators	for Problem	atic Hydric S	oils <sup>3</sup> :
	ace (S8) (	LRR R,	2 cm M	uck (A10) (L	.RR K, L, MLF	<b>RA 149B</b> )
A 149B)			Coast H	Prairie Redox	(A16) ( <b>LRR I</b> De et (O0) ( <b>L</b>	<b>Κ, L, R</b> )
ark Surrace (Sy	9) (LRR R 611) (LR	K, MILKA 14	<b>49B</b> )5 cm M	ucky Peat or	r Peat (S3) ( <b>Li</b> urfaca (S8) ( <b>Li</b>	
Mucky Minoral	511) ( <b>LR</b> (E1) ( <b>LP</b>	RR,L)	Polyvai	ue Delow Su		$(\mathbf{R} \mathbf{R}, \mathbf{L})$
Gleved Matrix	(F1) ( <b>EK</b> (F2)	ι <b>κ κ, ε</b> )	Iron-Ma		38) (LKK K, L	-) RRKIR)
ed Matrix (F3)	(1 2)		Piedmo	nt Floodplair	n Soils (F19) (	MLRA 149B
Dark Surface (!	F6)		Mesic S	Spodic (TA6)	(MLRA 144A	. 145. 149B)
ed Dark Surface	e (F7)		Red Pa	rent Material	(F21)	, -, - ,
Depressions (F	-8)		Very SI	allow Dark S	Surface (F22)	
10) ( <b>LRR K, L</b> )			Other (	Explain in Re	emarks)	
ology must be	present, i	unless dist	turbed or problemat	С.		
			Hydric Soil Prese	ent?	Yes	No
	rk Surface (Se aroma Sands ( Mucky Mineral Gleyed Matrix d Matrix (F3) Dark Surface ( d Dark Surface Depressions (F 10) ( <b>LRR K, L</b> ) blogy must be ast Regional S ternet/FSE_DC	Irk Surface (S9) (LRR H aroma Sands (S11) (LR Mucky Mineral (F1) (LR Gleyed Matrix (F2) d Matrix (F3) Dark Surface (F6) d Dark Surface (F7) Depressions (F8) 10) (LRR K, L) blogy must be present, 1 blogy must be present, 1 ast Regional Supplement ternet/FSE_DOCUMEN	ast Regional Supplement Versior ast Regional Supplement Versior (Second Context (FS)) (LRR K, L) (LRR K, L) (LRR K, L) (LRR K, L) (LRR K, L)	Introma Sands (S11) (LRR K, L)	Introma Sands (S11) (LRR K, L)	Intrace (S9) (LRR R, MLRA 149B)

Project/Site: Ce	entral Hudso	on Transmission Rebu	uild	City	County: Dutche	ss		Sampling Date: 10/10/20	17
Applicant/Owner:	Centr	al Hudson Gas & Elec	ctric			State:	NY	Sampling Point: <u>IZ-Up-</u>	-1
Investigator(s):	Colin Diehl/	Travis Money			Section, To	wnship, Range:	Wappin	ger	
Landform (hillside	e, terrace, e	etc.): none		Local relief	(concave, conve	ex, none): <u>none</u>		Slope %: <u>0-5</u>	5
Subregion (LRR	or MLRA):	LRR R	Lat:	41.6156800	Long:	-73.888826		Datum: WGS-84	
Soil Map Unit Na	me: <u>Ca</u>					NWI class	ification	:	
Are climatic / hyd	Irologic con	ditions on the site typ	cal for	this time of year?	Yes X	No	(lf no,	explain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "Norr	nal Circumstand	es" pres	sent? Yes X No	
Are Vegetation	, Soil	, or Hydrology		_naturally problematic?	(If needeo	d, explain any a	nswers i	n Remarks.)	

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedur	es here or in a	separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is rec	uired; check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)			
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots	(C3) Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6	6) Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery	B7)Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface	e (B8)	FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Ves	etland Hydrology Present? Yes No X				
	(includes capillary fringe)				
(includes capillary fringe)					
(includes capillary fringe) Describe Recorded Data (stream gauge, I	nonitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, I	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks:	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, n Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			
(includes capillary fringe) Describe Recorded Data (stream gauge, i Remarks: Unusually dry Autumn	monitoring well, aerial photos, previous inspection	ns), if available:			

Sampling Point: IZ-Up-1

Tree Stratum (Plot size: 15 by 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus americana	25	Yes	FACU	Number of Dominant Species
2.				That Are OBL, FACW, or FAC: 0 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: 5 (B)
5.				
6.				That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
	25	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20' )				OBL species 0 x 1 = 0
1. Lonicera tatarica	25	Yes	FACU	FACW species 0 x 2 = 0
2. Rhus typhina	25	Yes	UPL	FAC species 0 x 3 = 0
3.				FACU species 110 x 4 = 440
4.				UPL species 45 x 5 = 225
5.				Column Totals: 155 (A) 665 (B)
6.				Prevalence Index = B/A = 4.29
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				2 - Dominance Test is >50%
1. Dactvlis glomerata	25	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Taraxacum officinale	20	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Solidado canadensis	15	No	FACU	data in Remarks or on a separate sheet)
4 Dipsacus fullonum	10	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 Plantago major	5	No	FACU	
6 Parthenocissus quinquefolia	5	No	FACU	Indicators of hydric soil and wetland hydrology must
7				Definitions of Vagetation Strata:
8				Demittons of Vegetation Strata.
0				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
3				diameter at breast height (DDH), regardless of height.
11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3 28 ft (1 m) tall
12				
12.	80	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )				
,,, (, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, , ,, , ,, , ,, , ,, , ,, , , ,, , ,, , , , , , ,, , , , , , , , , , , , , , , , , , , ,				Woody vines – All woody vines greater than 3.28 ft in height
2				
3				Hydrophytic
4				Vegetation Present? Yes No X
		-Total Cover		
Remarks. (include proto numbers here of on a se	parate sheet	.)		

SOIL
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Profile Desc	cription: (Describe	to the de	pth needed to do	cument	the indi	cator or	r confirm the absence of indicators.)
Depth	Matrix		Redo	x Featur	es		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-2	10YR 4/3	100					sandy
2-8	7.5YR 2.5/3	100					some cobbles
8-14	10YR 4/4	100					silt loam
——							
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RI	M=Reduced Matrix,	MS=Ma	sked Sa	nd Grain	ns. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic E	pipedon (A2)		MLRA 149E	3)			Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	istic (A3)		Thin Dark Sur	face (S9	9) (LRR F	R, MLRA	<b>149B</b> ) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LF</b>	RR K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted	d Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix	(F2)		Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matr	ix (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B
Sandy N	Aucky Mineral (S1)		Redox Dark S	urface (I	F6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surface	e (⊢7)		Red Parent Material (F21)
Sandy F	Redox (S5)		Redox Depres		-8)		Very Shallow Dark Surface (F22)
Stripped		Mari (F10) (LF	(R K, L)			Other (Explain in Remarks)	
Dark Su	nace (S7)						
<sup>3</sup> Indiantora a	f hydrophytic ycarta	tion and y	uctional budralagu n	aust ha	procent	unloop d	listurbad ar problematic
Restrictive	aver (if observed)		wellanu nyurology n	iust De	preserii,	uniess (1	
Type <sup>.</sup>	Layer (il observed)	•					
Depth (ii	nches):						Hydric Soil Present? Yes No X
Pomarks:	·						
This data for	m is revised from N	orthcentra	al and Northeast Re	aional S	Suppleme	ent Versio	on 2.0 to include the NRCS Field Indicators of Hydric Soils.
Version 7.0,	2015 Errata. (http://	www.nrcs	.usda.gov/Internet/I	SE_DC		ITS/nrcs <sup>-</sup>	142p2_051293.docx)

Applicant/Owner:       Central Hudson Gas & Electric       State:       NY       Sampling Point:       1Z-Wet-1         Investigator(s):       Colin Diehl/Travis Money       Section, Township, Range:       Wappinger         Landform (hillside, terrace, etc.):       Depression       Local relief (concave, convex, none):       Concave       Slope %:       0-5         Subregion (LRR or MLRA):       LRR R       Lat:       41.6159       Long:       -73.8887       Datum:       WGS 84         Soil Map Unit Name:       Ca       NWI classification:       PEM         Are climatic / hydrologic conditions on the site typical for this time of year?       Yes       X       No       (If no, explain in Remarks.)         Are Vegetation       _, Soil       _, or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes       X       No         Are Vegetation       _, Soil       _, or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Project/Site: Central Hudson Transmission Rebuild				City/County: Dutches	SS	Samı	pling Date: 1	0/10/2017
Investigator(s):       Colin Diehl/Travis Money       Section, Township, Range: Wappinger         Landform (hillside, terrace, etc.):       Depression       Local relief (concave, convex, none): concave       Slope %:       0-5         Subregion (LRR or MLRA):       LRR R       Lat:       41.6159       Long:       -73.8887       Datum:       WGS 84         Soil Map Unit Name:       Ca       NWI classification:       PEM         Are climatic / hydrologic conditions on the site typical for this time of year?       Yes       X       No       (If no, explain in Remarks.)         Are Vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes       X       No         Are Vegetation       , Soil       , or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Applicant/Owner:	Central Hud	son Gas & Electric			State:	NY Sa	mpling Point:	1Z-Wet-1
Landform (hillside, terrace, etc.):       Depression       Local relief (concave, convex, none): concave       Slope %: 0-5         Subregion (LRR or MLRA):       LRR R       Lat: 41.6159       Long: -73.8887       Datum: WGS 84         Soil Map Unit Name:       Ca       NWI classification: PEM         Are climatic / hydrologic conditions on the site typical for this time of year?       Yes X       No (If no, explain in Remarks.)         Are Vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes X       No         Are Vegetation       , Soil       , or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Investigator(s): Colin Diehl/Travis Money Section, Township, Range: Wappinger								
Subregion (LRR or MLRA):       LRR R       Lat:       41.6159       Long:       -73.8887       Datum:       WGS 84         Soil Map Unit Name:       Ca       NWI classification:       PEM         Are climatic / hydrologic conditions on the site typical for this time of year?       Yes       X       No       (If no, explain in Remarks.)         Are Vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes       X       No         Are Vegetation       , Soil       , or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): concave Slope %:								%: <u>0-5</u>
Soil Map Unit Name:       Ca       NWI classification:       PEM         Are climatic / hydrologic conditions on the site typical for this time of year?       Yes X       No(If no, explain in Remarks.)         Are Vegetation, Soil, or Hydrologysignificantly disturbed?       Are "Normal Circumstances" present?       Yes X       No         Are Vegetation, Soil, or Hydrologynaturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Subregion (LRR or ML	RA): LRR I	R La	it: 41.6159	Long:	-73.8887		Datum: <u>\</u>	NGS 84
Are climatic / hydrologic conditions on the site typical for this time of year?       Yes X       No (If no, explain in Remarks.)         Are Vegetation, Soil, or Hydrologysignificantly disturbed?       Are "Normal Circumstances" present? Yes X       No         Are Vegetation, Soil, or Hydrologynaturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Soil Map Unit Name:	Са				NWI classif	ication: PEM	1	
Are Vegetation, Soil, or Hydrologysignificantly disturbed?       Are "Normal Circumstances" present? Yes _XNo         Are Vegetation, Soil, or Hydrologynaturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Are climatic / hydrologi	ic conditions	on the site typical f	or this time of year?	Yes X	No	(If no, explair	n in Remarks	.)
Are Vegetation, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.) SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Are Vegetation	, Soil	, or Hydrology	significantly distur	bed? Are "Norn	nal Circumstance	es" present?	Yes X	No
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.	Are Vegetation	, Soil	, or Hydrology	naturally problema	atic? (If needed	d, explain any ans	swers in Rem	arks.)	
	SUMMARY OF FI	NDINGS -	- Attach site m	ap showing sam	pling point locat	tions, transe	cts, impor	tant featu	res, etc.

Hydrophytic Vegetation Present?	Yes	х	No	Is the Sampled Area
Hydric Soil Present?	Yes	Х	No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedur	es here or	in a se	eparate report.)	•

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

Sampling Point: 1Z-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3				Total Number of Dominant Species Across All Strata:1(B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1.				FACW species x 2 =
2.				FAC species x 3 =
3.			FACW	FACU species x 4 =
4.			FACW	UPL species x 5 =
5.				Column Totals: (A) (B)
6			FAC	Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				X 2 - Dominance Test is >50%
1 Luthrum salicaria	65	Voc	OBI	$\frac{1}{2}$ Boundaries Index is <3.0 <sup>1</sup>
		N		4. Morphological Adoptations <sup>1</sup> /Drovide supporting
	15			data in Remarks or on a separate sheet)
3. Carex spp.		<u>No</u>	FACW	
4. Onoclea sensibilis	5	No	FACW	Problematic Hydrophytic Vegetation (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				<b>O</b> and the set of the
11				and greater than or equal to 3.28 ft (1 m) tall.
12	95	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3 28 ft tall
Woody Vine Stratum (Plot size: )				
1				Woody vines – All woody vines greater than 3.28 ft in height
2				Toght
2				Hydrophytic
3				Vegetation
4		Tatal Osuar		
		= I otal Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

SOIL
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Project/Site: Central Hudson Transmission Rebuild			City/	City/County: Dutchess				
Applicant/Owner:	Central H	ludson Gas & Elect	ric			State:	NY	Sampling Point: <u>3A-Up-1</u>
Investigator(s): Colir	n Diehl/Trav	vis Money			Section, To	wnship, Range:	Wappin	ger
Landform (hillside, te	rrace, etc.)	: none		Local relief	(concave, conve	ex, none):none		Slope %: <u>0-5</u>
Subregion (LRR or M	ILRA): LF	RR R	Lat:	41.618820	Long:	-73.888933		Datum: WGS-84
Soil Map Unit Name:	CtB					NWI class	ification	:
Are climatic / hydrolo	gic conditio	ons on the site typic	al for	this time of year?	Yes X	No	(If no,	explain in Remarks.)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "Norn	nal Circumstand	es" pres	sent? Yes X No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If needed	l, explain any ai	nswers i	n Remarks.)

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	ures here or in a	separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is	Surface Soil Cracks (B6)	
Surface Water (A1)	Drainage Patterns (B10)	
High Water Table (A2)	Moss Trim Lines (B16)	
Saturation (A3)	Dry-Season Water Table (C2)	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living R	bots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	s (C6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Image	y (B7)Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surfa	ice (B8)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No X Depth (inches):	
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, previous insp	ections), if available:
Remarks:		
Unusually dry Autumn		

Sampling Point: 3A-Up-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 Fraxinus americana	25	Yes	FACU	
2 Quercus rubra	15	Yes	FACU	Number of Dominant Species That Are OBL_FACW_or_FAC <sup>-</sup> 1(A)
3 Acer rubrum	15	Yes	FACU	
4				Total Number of Dominant Species Across All Strata: 8 (B)
5.				
6.		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 12.5% (A/B)
7.				Prevalence Index worksheet:
	55	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')		•		OBL species 0 $x = 0$
1. <u> </u>				FACW species $0   x 2 = 0$
2.		·		FAC species 15 x 3 = 45
3.		·		FACU species 115 x 4 = 460
4.				UPL species 20 x 5 = 100
5.				Column Totals: 150 (A) 605 (B)
6.				Prevalence Index = $B/A = 4.03$
7.		·		Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')		•		2 - Dominance Test is >50%
1. Trifolium repens	20	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Taraxacum officinale	20	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Toxicodendron radicans	15	Yes	FACU	data in Remarks or on a separate sheet)
4. Microstegium vimineum	15	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Dactylis glomerata	15	Yes	FACU	
6. Plantago major	10	No	FACU	be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.		·		
9.		·		diameter at breast height (DBH), regardless of height.
10.				Continue March Hants less them 2 in DDU
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Hark All berbasseys (non woody) plants, regardless
	95	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )		•		Weedy vince All weedy vince greater than 2.29 ft in
1.				height.
2.				
3.				Hydrophytic
4.				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

SOIL
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Profile Desc	cription: (Describe	to the de	pth needed to do	cument	the indi	cator or	confirm the absence of indicators.)
Depth	Matrix		Redox	x Featur	res		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-4	7.5YR 2.5/3	100					sandy with gravel
4-10	7.5YR 3/4	100					
10-16	10YR 4/4	100					silt loam
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RI	M=Reduced Matrix,	MS=Ma	asked Sa	nd Grain	ns. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	oipedon (A2)		MLRA 149B	8)			Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Surf	face (S9	9) (LRR F	R, MLRA	<b>149B</b> ) 5 cm Mucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	en Sulfide (A4)		High Chroma	Sands (	S11) (LR	RK,L)	Polyvalue Below Surface (S8) (LRR K, L)
	d Bolow Dark Surfac	o (A11)		Matrix	(F1) ( <b>LR</b> (E2)	( <b>r r</b> , l)	Inin Dark Surface (S9) (LRR K, L)
Thick Da	ark Surface (Δ12)	e (ATT)	Depleted Matri	iviau ix ix (E3)	(12)		Piedmont Floodnlain Soils (F12) (MI RA 149B)
Sandy M	lucky Mineral (S1)		Bedox Dark Si	urface (I	F6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy G	Gleved Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent Material (F21)
Sandy R	Sandy Bedox (S5) Bedox Depressions (F8)						Very Shallow Dark Surface (F22)
Stripped	Matrix (S6)		 Marl (F10) (LF	RRK,L)	, I		Other (Explain in Remarks)
Dark Su	rface (S7)		、 / 、	. ,			
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and v	vetland hydrology m	nust be	present,	unless di	listurbed or problematic.
Restrictive	Layer (if observed)	:					
Type.							
Depth (II	ncnes):						Hydric Soll Present? Yes NO X
Remarks:	m is rovised from N	ortheoptre	and Northoast Po	aional S	Supplome	ont Vorsia	on 2.0 to include the NPCS Field Indicators of Hydric Sails
Version 7.0,	2015 Errata. (http://	www.nrcs	.usda.gov/Internet/F	SE DC	DCUMEN	ITS/nrcs1	142p2 051293.docx)
			-	_			/
1							

Project/Site: Central Hudso	on Transmission Rebuild	City/	County: Dutchess S	Sampling Date: 10/11/2017			
Applicant/Owner: Centr	al Hudson Gas & Electric		State: NY	Sampling Point: <u>3A-Wet-1</u>			
Investigator(s): Colin Diehl/	Travis Money		Section, Township, Range: Wappinger				
Landform (hillside, terrace, e	etc.):	Local relief	(concave, convex, none): <u>concave</u>	Slope %: 0-5			
Subregion (LRR or MLRA):	LRR R Lat	: 41.618874	Long:73.888858	Datum: WGS 84			
Soil Map Unit Name: CtB			NWI classification:	PSS			
Are climatic / hydrologic con	ditions on the site typical fo	or this time of year?	Yes X No (If no, e	plain in Remarks.)			
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circumstances" prese	nt? Yes X No			
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, explain any answers in	Remarks.)			
SUMMARY OF FINDIN	NGS – Attach site ma	ap showing sampling	g point locations, transects, im	portant features, etc.			

Hydrophytic Vegetation Present?	Yes	Х	No	Is the Sampled Area
Hydric Soil Present?	Yes	Х	No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedure	s here or	in a se	eparate report.)	

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

Sampling Point: 3A-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<ol> <li><u>Quercus bicolor</u></li> <li>2.</li> </ol>	10	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
3		·		Total Number of Dominant Species Across All Strata: 6 (B)
5.				Percent of Dominant Species
7				Prevalence Index worksheet:
··	10	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')	10			OBL species x1=
1. Ilex verticillata	25	Yes	FACW	FACW species x 2 =
2. Lindera benzoin	25	Yes	FACW	FAC species x 3 =
3. Rhamnus cathartica	20	Yes	FACW	FACU species x 4 =
4. Quercus bicolor	10	No	FACW	UPL species x 5 =
5.				Column Totals: (A) (B)
6		·		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7				Hydronbytic Vegetation Indicators:
	80	-Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')	0			X 2 - Dominance Test is >50%
1 Phragmites sustralis	30	Vos		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
		<u> </u>		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
		No.		data in Remarks or on a separate sheet)
3. <u>Carex spp.</u>	15	No		Droblemetic Undrophytic Megatetics <sup>1</sup> (Evaluin)
4. Microstegium vimineum	15 			
	5			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
0				be present, unless disturbed of problematic.
7			FACW	Definitions of Vegetation Strata:
8		·		<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9		·	FACW	diameter at breast height (DBH), regardless of height.
10		·	FACW	Sapling/shrub – Woody plants less than 3 in. DBH
11		. <u> </u>	FACW	and greater than or equal to 3.28 ft (1 m) tall.
12	90	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: )				Woody vince All woody vince greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sen	arate sheet	· · · · · · · · · · · · · · · · · · ·		
		•)		

SOIL
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Profile Desc	cription: (Describe	to the de	epth needed to do	cument	the indi	cator or	confirm the absence o	f indicators.)		
Depth	 Matrix		Redo							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-4	10YR 4/2	100								
4-8	10YR 4/1	85	10YR 6/6	15	с	m	Loamy/Clayey	some cobbles		
8-12	10YR 6/1	85	10YR 5/8	15	С	m	Loamy/Clayey			
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RI	M=Reduced Matrix,	MS=Ma	isked Sa	nd Grain	s. <sup>2</sup> Location: PL=	=Pore Lining, M=Matrix.		
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Mucl	< (A10) ( <b>LRR K, L, MLRA 149B</b> )		
Histic E	pipedon (A2)		MLRA 149E	<b>B</b> )			? Coast Pra	irie Redox (A16) ( <b>LRR K, L, R</b> )		
Black Hi	istic (A3)		Thin Dark Sur	face (S9	9) (LRR F	R, MLRA	149B)5 cm Mucl	ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )		
Hydroge	en Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)		
Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LF</b>	RR K, L)	Thin Dark	Surface (S9) (LRR K, L)		
Deplete	d Below Dark Surfac	e (A11)	Loamy Gleyed	d Matrix	(F2)		Iron-Mang	anese Masses (F12) ( <b>LRR K, L, R</b> )		
Thick Da	ark Surface (A12)		X Depleted Matr	ix (F3)			Piedmont	Floodplain Soils (F19) (MLRA 149B)		
	/lucky Mineral (S1)		Redox Dark S	urrace (i	-6) - (F7)			Dalic (1A6) (MLRA 144A, 145, 149B)		
Sandy C	Sieyeu Matrix (54)		2 Redex Depres		= (F/)			ent Material (F21)		
Strippor	Motrix (S6)		Marl (E10) (LE		0)		Other (Explain in Remarks)			
Oark Su	r Matrix (30)			$(\mathbf{R}, \mathbf{L})$				Jair in Remarks)		
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and y	wetland hydrology n	nust be i	present	unless di	sturbed or problematic			
Restrictive	Laver (if observed):		inoliana nyarology n		procent,					
Type:										
Denth (i	nches).						Hydric Soil Present	2 Yes X No		
Boptii (i										
Remarks:	m is revised from N	ortheontr	and Northoast Po	aional S	upplome	ont Vorcia	on 2.0 to include the NP(	28 Field Indicators of Hydric Soils		
Version 7 0	2015 Frrata (http://	www.nrcs	s usda gov/Internet/I	FSF DC	CUMEN	ITS/nrcs	142p2 051293 docx)			
,			g				·			

Project/Site: Central	Hudson Tra	nsmission Rebuild		City/County: D	Outche	ss			Sampling Date:	10/	/11/2017
Applicant/Owner:	Central Hud	son Gas & Electric	;				State:	NY	Sampling Poi	nt:	3B-Up-1
Investigator(s): Colin	Diehl/Travis	Money		Section	on, To	wnship,	Range: \	Nappin	nger		
Landform (hillside, terrace, etc.): none Local relief (concave, convex, none):none Slope %: 0-5									: 0-5		
Subregion (LRR or MI	_RA): LRR	R L	.at: 41.618618		Long:	-73.888	3326		Datum:	W	GS-84
Soil Map Unit Name:	CtB					NV	VI classi	fication	:		
Are climatic / hydrolog	gic conditions	on the site typical	for this time of y	ear? Yes	<u>x</u>	No	»	(lf no,	explain in Rema	rks.)	
Are Vegetation	, Soil	, or Hydrology	significantly	disturbed? Are	"Norr	mal Circu	umstance	es" pres	sent? Yes X	_ No	o0
Are Vegetation	, Soil	, or Hydrology	naturally pro	blematic? (If r	neede	d, explair	n any an	swers i	in Remarks.)		

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	res here or in a	separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is requ	Surface Soil Cracks (B6)				
Surface Water (A1)	Drainage Patterns (B10)				
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)			
Saturation (A3)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B	7)Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (	B8)	FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches): Wetla	nd Hydrology Present? Yes No X			
(includes capillary fringe)		· · · · · · · · · · · · · · · · · · ·			
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspections),	if available:			
Remarks:					
Unusually dry Autumn					

Sampling Point: 3B-Up-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <u>Pinus strobus</u>	25	Yes	FACU	Number of Dominant Species
3.				Total Number of Dominant
4.				Species Across All Strata:(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
	25	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species 10 x 3 = 30
3.				FACU species 35 x 4 = 140
4.				UPL species 70 x 5 = 350
5.				Column Totals: 115 (A) 520 (B)
6				$\frac{1}{2} = \frac{1}{2} = \frac{1}$
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:10 by 15')				2 - Dominance Test is >50%
1. Festuca spp.	55	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Dactylis glomerata	15	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Plantago major	10	No	FACU	data in Remarks or on a separate sheet)
4. Taraxacum officinale	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				
6.				'Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in $(7.6 \text{ cm})$ or more in
9.				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12		-Tatal Causa		<b>Herb</b> – All herbaceous (non-woody) plants, regardless
Weedy Vine Stratum (Plot size:	90	- Total Cover		of size, and woody plants less than 3.26 it tail.
				Woody vines – All woody vines greater than 3.28 ft in bound
·				neight.
2				Hydrophytic
3				Vegetation
4				Present? Yes <u>No X</u>
		= I otal Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet	.)		

Profile Des	cription: (Describe	to the de	pth needed to doo	cument	the indi	cator or	confirm the absence	of indicators.)			
Depth	Matrix		Redox	x Featur	es						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	rks		
0-3	7.5YR 2.5/3	100						sandy with	n gravel		
3-8	7.5YR 4/4	100									
8-12	10YR 4/3	100						silt lo	am		
	·										
$\frac{1}{1}$ Type: C=C	oncentration D=Der	letion RM		 MS=Ma	sked Sa	nd Grain	<sup>2</sup> l ocation: F	 PI = Pore Lining M=M	atrix		
Hvdric Soil	Indicators:						Indicators f	or Problematic Hvd	ric Soils <sup>3</sup> :		
Histoso	l (A1)		Polyvalue Belo	ow Surfa	ice (S8)	(LRR R,	2 cm M	uck (A10) ( <b>LRR K, L</b> ,	MLRA 149B)		
Histic E	pipedon (A2)		MLRA 149B	5)	. ,		Coast Prairie Redox (A16) (LRR K, L, R)				
Black H	istic (A3)		Thin Dark Surf	ace (S9	) (LRR F	R, MLRA	149B) 5 cm M	ucky Peat or Peat (S	B) (LRR K, L, R)		
Hydroge	en Sulfide (A4)		High Chroma	Sands (S	S11) ( <b>LR</b>	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)				
Stratifie	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)				
Deplete	d Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Manganese Masses (F12) (LRR K, L, R)				
Thick D	ark Surface (A12)		Depleted Matri	ix (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B)				
Sandy M	Mucky Mineral (S1)		Redox Dark Su	urface (F	=6)		Mesic S	podic (TA6) ( <b>MLRA</b> '	I44A, 145, 149B)		
Sandy 0	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Pa	rent Material (F21)			
Sandy F	Redox (S5)		Redox Depres	sions (F	8)		Very Shallow Dark Surface (F22)				
Stripped	d Matrix (S6)		Marl (F10) ( <b>LR</b>	RK,L)			Other (Explain in Remarks)				
Dark Su	ırface (S7)										
<sup>3</sup> Indicators of	of hydrophytic vegeta	tion and v	vetland hydrology m	nuet he r	orecent	unless di	sturbed or problemati	6			
Restrictive	Laver (if observed):		vetiana nyarology n		bresent,						
Type:											
Depth (i	nches):						Hydric Soil Prese	nt? Yes	No X		
Remarks:											
This data fo	rm is revised from No	orthcentra	I and Northeast Re	gional S	uppleme	nt Versio	on 2.0 to include the N	IRCS Field Indicators	of Hydric Soils,		
Version 7.0,	2015 Errata. (http://	www.nrcs	.usda.gov/Internet/F	SE_DC	CUMEN	TS/nrcs1	142p2_051293.docx)				

Project/Site: Central Hudso	on Transmission Rebuild		City/County: Dutchess		Sampling Date: 1	0/11/2017
Applicant/Owner: Centr	al Hudson Gas & Electri	с	State	: <u>NY</u>	Sampling Point:	3B-Wet-1
Investigator(s): Colin Diehl/	Travis Money	Section, Township, Range	e: Wapping	ger		
Landform (hillside, terrace, e	etc.):	Local r	ave	Slope %:0-5		
Subregion (LRR or MLRA):	LRR R	Lat: 41.618547	Long: -73.888391		Datum: V	VGS 84
Soil Map Unit Name: CtB			NWI clas	sification:	PFO	
Are climatic / hydrologic con	iditions on the site typica	I for this time of year?	Yes X No	(If no, ∉	explain in Remarks.	)
Are Vegetation, Soil	, or Hydrology	significantly disturb	ed? Are "Normal Circumsta	າces" pres	ent? Yes X N	<b>√</b> 0
Are Vegetation, Soil	, or Hydrology	naturally problemat	ic? (If needed, explain any	answers ir	n Remarks.)	
SUMMARY OF FINDI	NGS – Attach site r	map showing sam	oling point locations, trans	sects, in	nportant featur	es, etc.

Hydrophytic Vegetation Present?	Yes	Х	No	Is the Sampled Area					
Hydric Soil Present?	Yes	Х	No	within a Wetland? Yes X No					
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID:					
Remarks: (Explain alternative procedures I									

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is require	X Surface Soil Cracks (B6)				
Surface Water (A1)	X Water-Stained Leaves (B9)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)			
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)			
X Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)			
X Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots	(C3) Saturation Visible on Aerial Imagery (C9)			
X Drift Deposits (B3)	X Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (C	6) X Geomorphic Position (D2)			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic Relief (D4)			
Sparsely Vegetated Concave Surface (B	8)	X FAC-Neutral Test (D5)			
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No X Depth (inches): V	Wetland Hydrology Present? Yes X No			
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspectio	ons), if available:			
Remarks:					
Unusually dry Autumn					

Sampling Point: 3B-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus palustris	50	Yes	FACW	
2. Acer rubrum	25	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 7 (A)
3.				
4.				Species Across All Strata: 7 (B)
5.				Bereast of Dominant Species
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)
7.				Prevalence Index worksheet:
	75	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1. Quercus bicolor	25	Yes	FACW	FACW species x 2 =
2. Ilex verticillata	20	Yes	FACW	FAC species x 3 =
3. Lindera benzoin	20	Yes	FACW	FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	15	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Carex spp.	25	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in Remarks or on a separate sheet)
4				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardless
	40	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				
3				Hydrophytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

SOIL
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Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Typa <sup>1</sup> Loc <sup>2</sup> Texture       Remarks         0-2       10YR 4/2       100       Sandy       Sandy       Sandy         2-8       7.5YR 4/1       90       7.5YR 6/6       20       c       m       Loamy/Clayey         8-14       10YR 3/1       80       10YR 5/6       10       c       m       Loamy/Clayey	Profile Desc	cription: (Describe	to the de	epth needed to do	cument	the indi	cator or	confirm the absence of i	ndicators.)	
(inches)       Color (moist)       %       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks         0-2       10YR 4/2       100       Sandy       Sandy       Sandy         2-8       7.5YR 4/1       90       7.5YR 6/8       20       c       m       Loamy/Clayey         8-14       10YR 3/1       80       10YR 5/6       10       c       m       Loamy/Clayey	Depth	Matrix		Redo	x Featur	es				
0-2         10YR 4/2         100         Sandy           2-8         7.5YR 4/1         90         7.5YR 6/8         20         c         m         Loamy/Clayey           8-14         10YR 3/1         80         10YR 5/6         10         c         m         Loamy/Clayey           8-14         10YR 3/1         80         10YR 5/6         10         c         m         Loamy/Clayey           9	(inches)	Color (moist)	%	Color (moist)	%	Туре'	Loc <sup>2</sup>	Texture	Rem	harks
2-8       7.5YR 4/1       90       7.5YR 6/8       20       c       m       Loamy/Clayey         8-14       10YR 3/1       80       10YR 5/6       10       c       m       Loamy/Clayey         8-14       10YR 3/1       80       10YR 5/6       10       c       m       Loamy/Clayey         9       9       9       9       7.5YR 6/8       20       c       m       Loamy/Clayey         9       9       9       9       9       9       9       9       9         9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9       9	0-2	10YR 4/2	100					Sandy		
8-14       10YR 3/1       80       10YR 5/6       10       c       m       Loamy/Clayey	2-8	7.5YR 4/1	90	7.5YR 6/8	20	C		Loamy/Clayey		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:	8-14	10YR 3/1	80	10YR 5/6	10	c		Loamy/Clayey		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 1498)         Histic Epipedon (A2)       MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR K, L)         Hydrigen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Think Dark Surface (A12)       X Depleted Dark Surface (F6)         Sandy Mucky Mineral (S1)       X Redox Dark Surface (F7)         Sandy Redox (S5)       Redox Depressions (F8)         Ustriped Matrix (S6)       Mart (F10) (LRR K, L)         Dark Surface (S7)       Thin Remarks)										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Hydrice Soil Indicators:       Coast Prairie Redox (A16) (LRR K, L, MLRA 149B)         Stratified Layers (A5)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Think Dark Surface (A12)       Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       X. Redox Dark Surface (F7)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)         Dark Surface (S7)       Thin Remarks)										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, L)         Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A12)       X         Sandy Mucky Mineral (S1)       X Redox Depressions (F8)         Sandy Redox (S5)       Redox Depressions (F8)         Stripped Matrix (S6)       Mari (F10) (LRR K, L)         Other (Explain in Remarks)       Other (Explain in Remarks)										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histosol (A2)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14         Sandy Mucky Mineral (S1)       X       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)       Sandy Muck Surface (S7)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)       Other (Explain in Remarks)         Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Pielematic.										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Thick Dark Surface (A12)       X Depleted Matrix (F3)         Sandy Mucky Mineral (S1)       X Redox Dark Surface (F6)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Redox Depressions (F8)         Very Shallow Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	<u> </u>									
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Muck (A10) (LRR K, L, R, L, R)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Inon-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14)         Sandy Mucky Mineral (S1)       X       Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 142)         Sandy Mucky Mineral (S1)       X       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3 <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       X Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14)         Sandy Mucky Mineral (S1)       X Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       X Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14)         Sandy Mucky Mineral (S1)       X Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3 <sup>1</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.         Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       MLRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Sandy Mucky Mineral (S1)       X Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       Indicators for Problematic Hydric Soils <sup>3</sup> :         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       X Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14)         Sandy Mucky Mineral (S1)       X Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	17									<b>A</b> - 4
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L,         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       X Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydric Soil	oncentration, D=Dep	pletion, RI	M=Reduced Matrix,	MS=Ma	sked Sa	nd Grains	5. <sup>2</sup> Location: PL=F	ore Lining, M=	Matrix. dric Soils <sup>3</sup> :
Histic Epipedon (A2)       MLRA 149B)       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, L)         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       X Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 14)         Sandy Mucky Mineral (S1)       X Redox Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Histosol	(A1)		Polvvalue Belo	ow Surfa	ce (S8)	LRR R.	2 cm Muck (	A10) ( <b>LRR K.</b> I	L. MLRA 149B)
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Mucky Mineral (S1)       X       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Histic E	pipedon (A2)		MLRA 149E	<b>B</b> )	( - )	( ,	Coast Prairi	e Redox (A16)	(LRR K, L, R)
Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Mucky Mineral (S1)       X       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Black Hi	istic (A3)		Thin Dark Sur	face (S9	) (LRR F	R, MLRA	149B) 5 cm Mucky	Peat or Peat (	S3) ( <b>LRR K, L, R</b> )
Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Mucky Mineral (S1)       X       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Hydroge	en Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)	Polyvalue B	elow Surface (S	68) ( <b>LRR K, L</b> )
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L         Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1         Sandy Mucky Mineral (S1)       X       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Stratified	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark S	urface (S9) ( <b>LR</b>	R K, L)
	Depleted	d Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix	(F2)		Iron-Mangar	ese Masses (F	12) ( <b>LRR K, L, R</b> )
Sandy Mucky Mineral (S1)       X       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 14         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Thick Da	ark Surface (A12)		X Depleted Matr	ix (F3)			Piedmont FI	oodplain Soils	(F19) ( <b>MLRA 149B</b>
Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Sandy M	Mucky Mineral (S1)		X Redox Dark S	urface (I	=6)		Mesic Spodi	c (TA6) ( <b>MLRA</b>	<b>144A, 145, 149B</b> )
Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3         Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Sandy G	Sleyed Matrix (S4)		Depleted Dark	Surface	e (⊢7)		Red Parent	Material (F21)	(500)
	Sandy R	Redox (S5)		Redox Depres	sions (F	8)		Very Shallov	V Dark Surface	(F22)
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Stripped	n Matrix (S6) Inface (S7)		Mari (F10) ( <b>LF</b>	<b>KR K, L</b> )			Other (Expla	in in Remarks)	
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.										
	<sup>3</sup> Indicators o	of hydrophytic vegeta	tion and	wetland hydrology n	nust be	oresent,	unless di	sturbed or problematic.		
Restrictive Layer (if observed):	Restrictive	Layer (if observed):	:							
Туре:	Туре:									
Depth (inches): No	Depth (i	nches):						Hydric Soil Present?	Yes	No

Project/Site: C	entral Hudso	on Transmission Reb	uild	City	y/County: Dutche		Sampling Date: 1	0/11/2017	
Applicant/Owne	r: <u>Centr</u>	al Hudson Gas & Ele	ctric			State:	NY	Sampling Point:	3C-Up-1
Investigator(s):	Colin Diehl/	Travis Money			Section, To	wnship, Range:	Wappin	nger	
Landform (hillsio	de, terrace, e	etc.): <u>none</u>		Local relie	Slope %: 0-5				
Subregion (LRR	or MLRA):	LRR R	Lat:	41.620606	Long:	-73.893144		Datum: \	NGS-84
Soil Map Unit Na	ame: <u>Ud</u>					NWI class	ification	:	
Are climatic / hy	drologic con	ditions on the site typ	ical for t	this time of year?	Yes X	No	(If no,	explain in Remarks	.)
Are Vegetation	, Soil	, or Hydrology	·	significantly disturbed	? Are "Norr	nal Circumstand	es" pre	sent? Yes X	No
Are Vegetation	, Soil	, or Hydrology	/	naturally problematic?	(If neede	d, explain any a	nswers i	in Remarks.)	

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	ires here or in a	separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roo	ts (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils (	(C6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7	)Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (E	38)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	No X Depth (inches):	
Water Table Present? Yes	No X Depth (inches):	
Saturation Present? Yes	No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspect	tions), if available:
Remarks:		
Unusually dry Autumn		

Sampling Point: 3C-Up-1

<u>Tree Stratum</u> (Plot size: <u>15 by 30'</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1 2.			FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.			FACU	
4.				Species Across All Strata:5(B)
5 6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species 0 x 1 = 0
1. Rosa multiflora	25	Yes	FACU	FACW species $0   x 2 = 0$
2. Lonicera tatarica	15	Yes	FACU	FAC species 40 x 3 = 120
3.				FACU species 60 x 4 = 240
4.				UPL species 20 x 5 = 100
5.				Column Totals: 120 (A) 460 (B)
6.				Prevalence Index = B/A = 3.83
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				2 - Dominance Test is >50%
1 Toxicodendron radicans	25	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2 Galium aparine	20	Yes	UPI	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Solidado canadensis	20	Yes	FACU	data in Remarks or on a separate sheet)
4. Taraxacum officinale	15	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				· · · · · · · · · · · · · · · · ·
6				Indicators of hydric soil and wetland hydrology must be present unless disturbed or problematic
7				Definitions of Vegetation Strata:
8				
9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height
10				
11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				Herb - All herbaceous (non-woody) plants, regardless
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				neight.
2				Hydrophytic
3				Vegetation
4		=Total Cover		Present? Yes <u>No X</u>
Remarks: (Include photo numbers here or on a sen	arate sheet	)		
		•)		

SOIL
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Profile Desc	cription: (Describe	to the de	pth needed to do	cument	the indi	cator or	confirm the absence of	indicators.)				
Depth	 Matrix		Redo	x Featur	es							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks				
0-4	10YR 4/6	100										
4-10	7.5YR 5/4	100										
10-14	10YR 5/4	100						silt loam				
17 0.0							21 11 01					
Type: C=C	oncentration, D=Dep	oletion, RI	M=Reduced Matrix,	MS=Ma	isked Sa	nd Grain	s. <sup>2</sup> Location: PL=	Pore Lining, M=Matrix.				
Histosol			Polyvalue Bel	ow Surfa	ace (S8)		2 cm Muck					
Histic Fr	ninedon (A2)		NI RA 149F	3W Suna 8)	100 (00)	( [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [ [	2 cm Muck	ie Redox (A16) ( $\mathbf{I}\mathbf{R}\mathbf{R}\mathbf{K}\mathbf{I}\mathbf{R}$ )				
Black Hi	stic (A3)		Thin Dark Sur	-, face (S9	) (LRR F	R. MLRA	149B) 5 cm Mucky Peat or Peat (S3) (I RR K I R)					
Hvdroae	n Sulfide (A4)		High Chroma	Sands (	S11) (LR	R K. L)	Polyvalue Below Surface (S8) (LRR K. L)					
Stratified	d Lavers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LF</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)					
Depleted	d Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix	(F2)	. ,	Iron-Manga	nese Masses (F12) (LRR K, L, R)				
Thick Da	ark Surface (A12)	. ,	Depleted Matr	ix (F3)	. ,		Piedmont F	loodplain Soils (F19) (MLRA 149B)				
Sandy M	lucky Mineral (S1)		Redox Dark S	urface (I	F6)		Mesic Spoo	lic (TA6) ( <b>MLRA 144A, 145, 149B</b> )				
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent	Material (F21)				
Sandy F	ledox (S5)		Redox Depres	sions (F	8)		Very Shallow Dark Surface (F22)					
Stripped	Matrix (S6)		Marl (F10) (LF	RR K, L)			Other (Explain in Remarks)					
Dark Su	rface (S7)											
2												
°Indicators o	f hydrophytic vegeta	tion and v	vetland hydrology n	nust be	present,	unless di	sturbed or problematic.					
Restrictive	Layer (if observed)											
· rype:												
Depth (i	nches):						Hydric Soil Present?	Yes No_X				
Remarks:												
This data for	m is revised from No	orthcentra	I and Northeast Re	gional S		ent Versio	on 2.0 to include the NRC	S Field Indicators of Hydric Soils,				
version 7.0,		www.mcs	.usua.gov/internet/i	FSE_DC	COMEN	113/11/05	142p2_051295.d0cx)					

Project/Site: Centra	: Central Hudson Transmission Rebuild				City/County: Du	ches	ss		Sampling Date:	10/11/201	7
Applicant/Owner:	Applicant/Owner: Central Hudson Gas & Electric						State:	NY	Sampling Point	t: <u>3C-We</u> t	-1
Investigator(s): Colin		Section	, To\	wnship, Range:	Wappin	ıger					
Landform (hillside, ter	Local r	elief (concave, c	onve	x, none):conca	ve	Slope %:5					
Subregion (LRR or M	LRA): LRR I	<u>R</u> [	_at: <u>41.6</u>	20296	Lo	ng:	-73.892446		Datum:	WGS 84	
Soil Map Unit Name:	Ud						NWI class	ification	: PEM		
Are climatic / hydrolog	gic conditions	on the site typical	for this t	ime of year?	Yes	Х	No	(lf no,	explain in Remark	s.)	
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturb	ed? Are "	Norm	al Circumstand	es" pres	sent? Yes X	No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problemat	tic? (If ne	edec	l, explain any a	nswers i	in Remarks.)		
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.									с.		
Hydrophytic Vegetat	ion Present?	Yes	X No	0	Is the Sample	d A	rea				

Hydrophylic vegetation Present?	res	<u> </u>		is the Sampled Area
Hydric Soil Present?	Yes	Х	No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes	Х	No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures	here or	in a se	eparate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required; check all	ators (minimum of one is required; check all that apply) X Surface Soil Cracks (B6)					
Surface Water (A1) X Water-	Stained Leaves (B9)	Drainage Patterns (B10)				
High Water Table (A2)	c Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3) Marl De	eposits (B15)	Dry-Season Water Table (C2)				
Water Marks (B1)	Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)					
Sediment Deposits (B2) Oxidize	ed Rhizospheres on Living Roots (C3)	X Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) X Presen	nce of Reduced Iron (C4)	Stunted or Stressed Plants (D1)				
Algal Mat or Crust (B4)	t Iron Reduction in Tilled Soils (C6)	Geomorphic Position (D2)				
Iron Deposits (B5) Thin M	uck Surface (C7)	Shallow Aquitard (D3)				
X Inundation Visible on Aerial Imagery (B7) Other (	(Explain in Remarks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (D5)				
Field Observations:						
Surface Water Present? Yes No X	Depth (inches):					
Water Table Present? Yes No X	Depth (inches)					
Saturation Present? Yes X No	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No				
Saturation Present? Yes X No	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No				
Saturation Present? Yes X No	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No				
Saturation Present?       Yes       X       No         (includes capillary fringe)	Depth (inches):     2     Wetlan       aerial photos, previous inspections), if	d Hydrology Present? Yes X No available:				
Saturation Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well,	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No				
Saturation Present? Yes X No	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No available:				
Saturation Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, Remarks: Unusually dry Autumn	Depth (inches): Wetlan	d Hydrology Present? Yes X No available:				
Saturation Present?       Yes X       No         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well,         Remarks:       Unusually dry Autumn	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No available:				
Saturation Present?       Yes X       No         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well,         Remarks:       Unusually dry Autumn	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No available:				
Saturation Present?       Yes X       No         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well,         Remarks:       Unusually dry Autumn	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No available:				
Saturation Present?       Yes X       No         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well,         Remarks:       Unusually dry Autumn	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No available:				
Saturation Present?       Yes X       No         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well,         Remarks:       Unusually dry Autumn	Depth (inches): 2 Wetlan	d Hydrology Present? Yes X No available:				
Saturation Present?       Yes X       No         (includes capillary fringe)       Describe Recorded Data (stream gauge, monitoring well,         Remarks:       Unusually dry Autumn	Depth (inches): 2 Wetlan aerial photos, previous inspections), if	d Hydrology Present? Yes X No available:				
Saturation Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, Remarks: Unusually dry Autumn	Depth (inches): 2 Wetlan aerial photos, previous inspections), if	d Hydrology Present? Yes X No available:				
Saturation Present? Yes X No (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, Remarks: Unusually dry Autumn	Depth (inches): 2 Wetlan aerial photos, previous inspections), if	d Hydrology Present? Yes X No available:				

Sampling Point: 3C-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3.       4.				Total Number of Dominant Species Across All Strata:1(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1				FACW species x 2 =
2.				FAC species x 3 =
3.			FACW	FACU species x 4 =
4.			FACW	UPL species x 5 =
5.				Column Totals: (A) (B)
6.			FAC	Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	10	No	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Phragmites australis	50	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lythrum salicaria	15	No	FACW	data in Remarks or on a separate sheet)
4. Carex spp.	15	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8.				
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Sanling/shrub Woody plants loss than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12.				Harb All borbassous (non weady) planta, regardlage
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Vegetation
4.				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	arate sheet	.)		•

SOIL
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Reduced Matrix Reduced Matrix Reduced Matrix RM=Reduced Matrix RM=RM=RM=RM=RM=RM=RM=RM=RM=RM=RM=RM=RM=R	ox Feature           %           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20      <	<u>Type</u> <sup>1</sup> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u> <u>c</u>	Loc <sup>2</sup>	Texture           Sandy           Loamy/Clayey           Loamy/Clayey           Loamy/Clayey           Sandy           Loamy/Clayey           Loamy/Clayey           Indicator           2 cn           Coa           149B)           5 cn           Poly           Thin           Indicator		some of some of the source of	Matrix. Matrix. dric Soils <sup>3</sup> : ., MLRA 149B) (LRR K, L, R) S3) (LRR K, L, R) S3) (LRR K, L, R) (3) (LRR K, L, R) (4) (2) (LRR K, L, R)
Color (moist) 7.5YR 5/6 7.5YR 5/6 10YR 6/6 , RM=Reduced Matrix Polyvalue Be MLRA 149 Thin Dark Su High Chroma Loamy Mucky	%           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20           20	Type <sup>1</sup> c c c c c c c c c c c c c	Loc <sup>2</sup> - 	Texture           Sandy           Loamy/Clayey           Loamy/Clayey           Loamy/Clayey           Sandy           Loamy/Clayey           Loamy/Clayey           Indicato          2 cn          2 cn	a: PL=Pore rs for Prol Muck (A1 st Prairie R Mucky Pe value Belo Dark Surfa Manganes	some of some of e Lining, M=1 blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat ( w Surface (S ace (S9) (LR e Masses (F	Matrix. Matrix. dric Soils <sup>3</sup> : -, MLRA 149B) (LRR K, L, R) 63) (LRR K, L, R) 83) (LRR K, L, R) 12) (LRR K, L, R)
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<ul> <li>7.5YR 5/6</li> <li>10YR 6/6</li> <li>10YR 6/6</li> <li>, RM=Reduced Matrix</li> <li>Polyvalue Be</li> <li>MLRA 149</li> <li>Thin Dark Su</li> <li>High Chroma</li> <li>Loamy Mucky</li> </ul>	20 20 20 20 20 20 20 20 20 20 20 20 20 2	     		Loamy/Clayey Loamy/Clayey	n: PL=Pore <b>rs for Prol</b> Muck (A1 st Prairie R Mucky Pe value Belo Dark Surfa Manganes	some of e Lining, M=1 blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat (S w Surface (S ace (S9) (LR e Masses (F	Matrix. dric Soils <sup>3</sup> : ., MLRA 149B) (LRR K, L, R) 63) (LRR K, L, R) 83) (LRR K, L, R) 12) (LRR K, L, R)
<ul> <li>10YR 6/6</li> <li>10YR 6/6</li> <li>New State of Control of Contro</li></ul>	20 20 20 20 20 20 20 20 20 20 20 20 20 2			Loamy/Clayey	n: PL=Pore rs for Prol Muck (A1 st Prairie R Mucky Pe value Belo Dark Surfa Manganes	e Lining, M=1 blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat (S w Surface (S ace (S9) (LR e Masses (F	Matrix. dric Soils <sup>3</sup> : -, MLRA 149B) (LRR K, L, R) 53) (LRR K, L, R) 58) (LRR K, L, R) 12) (LRR K, L, R)
, RM=Reduced Matrix Polyvalue Be MLRA 149Thin Dark SuHigh ChromaLoamy Mucky	elow Surface B) urface (S9) a Sands (S y Mineral ( ed Matrix (F3)	sked San ce (S8) (l (LRR R 111) (LRI (F1) (LRI F2)	                                                                                                                                                                                                   		a: PL=Pore rs for Prol Muck (A1 st Prairie R Mucky Pe value Belo Dark Surfa Manganes	e Lining, M=I blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat ( w Surface (S ace (S9) (LR ee Masses (F	Matrix. dric Soils <sup>3</sup> : ., MLRA 149B) (LRR K, L, R) 53) (LRR K, L, R) 58) (LRR K, L) (R K, L) 12) (LRR K, L, R)
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, RM=Reduced Matrix Polyvalue Be MLRA 149 Thin Dark Su High Chroma Loamy Mucky	elow Surface (S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	sked San ce (S8) (l (LRR R (11) (LRI (F1) (LRI F2)		. <sup>2</sup> Location Indicato 2 cn Coa 149B)5 cn Poly Thin Iron.	n: PL=Pore rs for Prol Muck (A1 st Prairie R Mucky Pe value Belo Dark Surfa Manganes	e Lining, M=1 blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat (S w Surface (S ace (S9) (LR ee Masses (F	Matrix. dric Soils <sup>3</sup> : -, MLRA 149B) (LRR K, L, R) 63) (LRR K, L, R) 88) (LRR K, L) R K, L) 12) (LRR K, L, R)
, RM=Reduced Matrix Polyvalue Be MLRA 149 Thin Dark Su High Chroma Loamy Mucky	elow Surface (MS=Mas (MS=Mas (S) (MS=Mas (S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	Sked San ce (S8) (I (LRR R (11) (LRI (F1) (LRI F2)	                                                                                                 		n: PL=Pore rs for Prol n Muck (A1 st Prairie R n Mucky Pe value Belo Dark Surfa Manganes	e Lining, M=I blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat ( w Surface (S ace (S9) (LR ee Masses (F	Matrix. dric Soils <sup>3</sup> : _, MLRA 149B) (LRR K, L, R) 63) (LRR K, L, R) 68) (LRR K, L) R K, L) 12) (LRR K, L, R)
, RM=Reduced Matrix Polyvalue Be MLRA 149 Thin Dark Su High Chroma Loamy Mucky	elow Surface B) urface (S9) a Sands (S y Mineral ( ed Matrix (F trix (F3)	5ked San ce (S8) (l (LRR R 111) (LRI (F1) (LRI F2)	                                                                                                 		n: PL=Pore rs for Prol Muck (A1 st Prairie R Mucky Pe value Belo Dark Surfa Manganes	e Lining, M=I blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat (S w Surface (S ace (S9) (LR ee Masses (F	Matrix. dric Soils <sup>3</sup> : -, MLRA 149B) (LRR K, L, R) 63) (LRR K, L, R) 88) (LRR K, L) R K, L) 12) (LRR K, L, R)
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, RM=Reduced Matrix Polyvalue Be <b>MLRA 149</b> Thin Dark Su High Chroma Loamy Mucky	elow Surfac B) Irface (S9) a Sands (S y Mineral ( ed Matrix (F trix (F3)	ce (S8) (l (LRR R (11) (LRI (F1) (LRI (F1) (LRI F2)			n: PL=Pore <b>rs for Prol</b> Muck (A1 st Prairie R Mucky Pe value Belo Dark Surfa Manganes	e Lining, M=I blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat ( w Surface (S ace (S9) (LR ee Masses (F	Matrix. dric Soils <sup>3</sup> : ., MLRA 149B) (LRR K, L, R) 63) (LRR K, L, R) 68) (LRR K, L) R K, L) (12) (LRR K, L, R)
, RM=Reduced Matrix Polyvalue Be <b>MLRA 149</b> Thin Dark Su High Chroma Loamy Mucky	k, MS=Mas elow Surface (B) Irface (S9) a Sands (S y Mineral ( ed Matrix (F trix (F3)	 sked San (LRR R (11) (LRF (F1) (LRF (F1) (LRF	Grains LRR R, , MLRA 1 R K, L) R K, L)		n: PL=Pore <b>rs for Prol</b> n Muck (A1 st Prairie R n Mucky Pe value Belor Dark Surfa Manganes	e Lining, M=I blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat ( w Surface (S ace (S9) (LR ee Masses (F	Matrix. dric Soils <sup>3</sup> : ., MLRA 149B) (LRR K, L, R) 63) (LRR K, L, R) 68) (LRR K, L) R K, L) 12) (LRR K, L, R)
Polyvalue Be MLRA 149 Thin Dark Su High Chroma Loamy Mucky	elow Surfac (B) arface (S9) a Sands (S y Mineral ( ed Matrix (F trix (F3)	ce (S8) (I ( <b>LRR R</b> (11) ( <b>LRI</b> (F1) ( <b>LRI</b> F2)	LRR R, , MLRA 1 R K, L) R K, L)	Indicato 2 cn Coa 149B)5 cn Poly Thin Iron-	rs for Prol n Muck (A1 st Prairie R n Mucky Pe value Belo Dark Surfa Manganes	blematic Hy 0) (LRR K, I Redox (A16) ( eat or Peat (\$ w Surface (\$ ace (\$9) (LR ee Masses (F	dric Soils <sup>3</sup> : ., MLRA 149B) (LRR K, L, R) 63) (LRR K, L, R) 68) (LRR K, L) R K, L) 12) (LRR K, L, R)
Polyvalue Be MLRA 149 Thin Dark Su High Chroma Loamy Mucky	elow Surfac IB) Irface (S9) Is Sands (S I Mineral ( In Matrix (F Itrix (F3)	ce (S8) (I ( <b>LRR R</b> (11) ( <b>LR</b> (F1) ( <b>LR</b> F2)	LRR R, ., MLRA 1 R K, L) R K, L)	2 cn Coa 149B)5 cn Poly Thin Iron-	n Muck (A1 st Prairie R n Mucky Pe value Belo Dark Surfa Manganes	0) ( <b>LRR K, I</b> Redox (A16) ( eat or Peat (S w Surface (S ace (S9) ( <b>LR</b> e Masses (F	L, MLRA 149B) (LRR K, L, R) (G3) (LRR K, L, R) (G8) (LRR K, L) (G8 K, L) (12) (LRR K, L, R)
MLRA 149 Thin Dark Su High Chroma Loamy Muck	B) a Sands (S9) a Sands (S y Mineral ( ed Matrix (F trix (F3)	( <b>LRR R</b> (11) ( <b>LRI</b> (F1) ( <b>LRI</b> (F2)	:, MLRA 1 R K, L) R K, L)	Coa 149B)5 cn Poly Thin Iron-	st Prairie R n Mucky Pe value Belo Dark Surfa Manganes	Redox (A16) ( eat or Peat (S w Surface (S ace (S9) ( <b>LR</b> se Masses (F	(LRR K, L, R) 63) (LRR K, L, R) 68) (LRR K, L) R K, L) 12) (LRR K, L, R)
Thin Dark Su High Chroma Loamy Mucky	ırface (S9) a Sands (S y Mineral ( ed Matrix (F trix (F3)	( <b>LRR R</b> (11) ( <b>LR</b> (F1) ( <b>LR</b> (F2)	R, MLRA 1 R K, L) R K, L)	149B)5 cn Poly Thin Iron-	i Mucky Pe value Belo Dark Surfa Manganes	eat or Peat (S w Surface (S ace (S9) ( <b>LR</b> e Masses (F	63) (LRR K, L, R) 68) (LRR K, L) R K, L) 12) (LRR K, L, R)
High Chroma	a Sands (S y Mineral ( ed Matrix (F trix (F3)	511) ( <b>LRI</b> (F1) ( <b>LR</b> I F2)	R K, L) R K, L)	Poly Thin Iron	value Belo Dark Surfa Manganes	w Surface (S ace (S9) ( <b>LR</b> e Masses (F	88) (LRR K, L) R K, L) 12) (LRR K. L. R)
Loamy Muck	y Mineral ( ed Matrix (F trix (F3)	(F1) ( <b>LR</b> I F2)	R K, L)	I nin Iron-	Dark Surfa Manganes	ace (S9) (LR e Masses (F	12) (LRR K. L. R)
	trix (F3)	-2)			wanganes	e masses (r	(2)(LKKK.L.K)
Loanty Gleye     X Depleted Mat				Died	mont Eloo	, dolain Soile (	(MI DA 1/08
Depleted Wat	Surface (Fi	6)		Flec	ic Spodic (	τΔ6) ( <b>ΜΙ ΒΔ</b>	1440 145 149B
Depleted Dark	rk Surface	(F7)		Red	Parent Ma	iterial (F21)	(1440, 140, 1400)
Redox Depre	essions (F8	3)		Verv	Shallow D	ark Surface	(F22)
 Marl (F10) (L	.RR K, L)			Othe	er (Explain	in Remarks)	( )
	. ,					,	
nd watland by dralagy	must be p	recent i	بماممم طنم	turbad ar problem	actio		
	must be p	ieseni, t					
				Hydric Soil Pr	esent?	Yes	Νο
ntral and Northeast R nrcs.usda.gov/Internet	egional Su /FSE_DO0	ıpplemer CUMEN <sup>−</sup>	nt Versior TS/nrcs14	n 2.0 to include th 42p2_051293.doc	e NRCS F x)	ield Indicator	s of Hydric Soils,
n	itral and Northeast R	itral and Northeast Regional St	tral and Northeast Regional Supplements.usda.gov/Internet/FSE_DOCUMEN	Itral and Northeast Regional Supplement Versio	Itral and Northeast Regional Supplement Version 2.0 to include th	Itral and Northeast Regional Supplement Version 2.0 to include the NRCS F rcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_051293.docx)	Itral and Northeast Regional Supplement Version 2.0 to include the NRCS Field Indicator

Project/Site: C	Central Hudso	on Transmission Reb	uild	City	/County: Dutche	SS		Sampling Date: 10/11/2017
Applicant/Owne	r: Centr	al Hudson Gas & Ele	ctric			State:	NY	Sampling Point: <u>3E-Up-1</u>
Investigator(s):	Colin Diehl/	Travis Money			Section, To	wnship, Range:	Wappin	ger
Landform (hillsig	de, terrace, e	etc.): <u>none</u>		Local relief	(concave, conve	ex, none):none		Slope %: <u>0-5</u>
Subregion (LRR	R or MLRA):	LRR R	Lat:	41.622175	Long:	-73.895809		Datum: WGS-84
Soil Map Unit N	ame: <u>Pg</u>					NWI class	ification	:
Are climatic / hy	drologic con	ditions on the site typ	ical for	this time of year?	Yes X	No	(lf no,	explain in Remarks.)
Are Vegetation	, Soil	, or Hydrology		significantly disturbed?	Are "Norr	nal Circumstand	ces" pres	sent? Yes X No
Are Vegetation	, Soil	, or Hydrology		naturally problematic?	(If needeo	d, explain any a	nswers i	n Remarks.)
	-							

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

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedur	es here or in a	separate report.)	

Wetland Hydrology Indicator	rs:				Secondary Indicators (min	imum of two required)			
Primary Indicators (minimum c	of one is require	ed; check all		Surface Soil Cracks (B6)					
Surface Water (A1)		Water-	Stained Leaves (B9)		Drainage Patterns (B10)				
High Water Table (A2)		Aquatic Fauna (B13)			Moss Trim Lines (B16)				
Saturation (A3)		Marl Deposits (B15)			Dry-Season Water Table (C2)				
Water Marks (B1)		Hydrogen Sulfide Odor (C1) Crayfish Burrows (C8)							
Sediment Deposits (B2)		Oxidized Rhizospheres on Living Roots (C3)			Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3)		Presen	ce of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)			
Algal Mat or Crust (B4)		Recent	Iron Reduction in Tilled Soi	ls (C6)	Geomorphic Position (	(D2)			
Iron Deposits (B5)		Thin M	uck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on Aeria	al Imagery (B7)	Other (	Explain in Remarks)		Microtopographic Relie	ef (D4)			
Sparsely Vegetated Conca	ave Surface (B	<u> </u>			FAC-Neutral Test (D5)	)			
Field Observations:									
Surface Water Present?	Yes	No X	Depth (inches):						
Water Table Present?	Yes	No X	Depth (inches):						
Saturation Present?	Yes	No X	Depth (inches):	Wetlar	nd Hydrology Present?	Yes No X			
(includes capillary fringe)									
Describe Recorded Data (strea	am gauge, mor	itoring well,	aerial photos, previous insp	ections), if	available:				
Remarks:									
Unusually dry Autumn									

Sampling Point: 3E-Up-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet
1 Fraxinus americana	35	Yes	FACU	
2 Carva ovata	15	Yes	FACU	Number of Dominant Species That Are OBL_FACW_or_FAC <sup>-</sup> 0(A)
3 Juglans nigra	15	Yes	FACU	
4 Tilia americana	15	Yes	FACU	Total Number of Dominant Species Across All Strata: 8 (B)
5				
6.				Percent of Dominant Species That Are OBL. FACW. or FAC: 0.0% (A/B)
7.				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species 0 $x 1 = 0$
1. Lonicera tatarica	25	Yes	FACU	FACW species 0 x 2 = 0
2. Rosa multiflora	25	Yes	FACU	FAC species $0 \times 3 = 0$
3.				FACU species 145 x 4 = 580
4.				UPL species 5 x 5 = 25
5.				Column Totals: 150 (A) 605 (B)
6.				Prevalence Index = B/A = 4.03
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15' )				2 - Dominance Test is >50%
1. Taraxacum officinale	15	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Toxicodendron radicans	5	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3.				data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> Weedy plants 3 in (7.6 cm) or more in
9.				diameter at breast height (DBH), regardless of height.
10.				Sanling/shruh – Woody plants less than 3 in DBH
11.				and greater than or equal to 3.28 ft (1 m) tall.
12				Herb - All berbaceous (non-woody) plants, regardless
	20	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				<b>Woody vines</b> – All woody vines greater than 3 28 ft in
1				height.
2				
3.				Hydrophytic Vegetation
4				Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

SOIL
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Profile Desc	ription: (Describe	to the de	pth needed to do	cument	the indi	cator or	confirm the absence of indicators.)
Depth	 Matrix		Redox	x Featur	res		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-6	10YR 4/6	100					
6-10	10YR 4/4	100					sandy loam with cobbles
10-16	7.5YR 3/4	100					silt loam
	1.011(0)4						
<sup>1</sup> Type: C=C	oncentration, D=Dep	bletion, RM	/	MS=Ma	asked Sa	nd Grain	ns. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	ow Surfa	ace (S8)	(LRR R,	2 cm Muck (A10) (LRR K, L, MLRA 149B)
Histic Ep	pipedon (A2)		MLRA 149B	3)			Coast Prairie Redox (A16) (LRR K, L, R)
Black Hi	stic (A3)		Thin Dark Sur	face (S9	9) (LRR F	R, MLRA	149B)5 cm Mucky Peat or Peat (S3) (LRR K, L, R)
Hydroge	n Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)	Polyvalue Below Surface (S8) (LRR K, L)
Stratified	l Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dark Surface (S9) (LRR K, L)
Depleted	Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix	(F2)		Iron-Manganese Masses (F12) (LRR K, L, R
Thick Da	ark Surface (A12)		Depleted Matri	ix (F3)			Piedmont Floodplain Soils (F19) (MLRA 149
Sandy M	lucky Mineral (S1)		Redox Dark S	urface (I	F6)		Mesic Spodic (TA6) ( <b>MLRA 144A, 145, 149E</b>
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Parent Material (F21)
Sandy R	edox (S5)		Redox Depres	sions (F	-8)		Very Shallow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RRK,L)			Other (Explain in Remarks)
Dark Su	rface (S7)						
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and v	vetland hydrology m	nust be i	present	unless d	listurbed or problematic
Restrictive	Layer (if observed)		fotiality hydrology in		procent,		
Type:							
Depth (ii	nches):						Hydric Soil Present? Yes <u>No X</u>
Remarks:							
This data for	m is revised from N	orthcentra	I and Northeast Re	gional S	Suppleme	ent Versio	on 2.0 to include the NRCS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://	www.nrcs	.usda.gov/Internet/F	SE_DC	DCUMEN	ITS/nrcs <sup>-</sup>	142p2_051293.docx)
### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Central Hudson Transmission Rebu	ild	(	City/County: Dutchess	;		Sampling Date: 10/11/2017	
Applicant/Owner: Central Hudson Gas & Elec	:tric			State:	NY	Sampling Point: <u>3E-Wet-1</u>	
Investigator(s): Colin Diehl/Travis Money	√apping	jer					
Landform (hillside, terrace, etc.):		Local re	Local relief (concave, convex, none): <u>concave</u> Slope %:				
Subregion (LRR or MLRA): LRR R	_ Lat:	41.622471	Long: -7	73.895847		Datum: WGS 84	
Soil Map Unit Name: Pg				NWI classifi	cation:	PUB/PSS	
Are climatic / hydrologic conditions on the site typic	cal for	<sup>·</sup> this time of year?	Yes X	No	(lf no, e	explain in Remarks.)	
Are Vegetation, Soil, or Hydrology		significantly disturbe	ed? Are "Norma	al Circumstance	s" pres	ent? Yes X No	
Are Vegetation, Soil, or Hydrology		_naturally problemati	ic? (If needed, o	explain any ans	wers in	ו Remarks.)	
SUMMARY OF FINDINGS – Attach site	) maj	p showing samp	oling point location	ons, transec	cts, in	nportant features, etc.	
Hydrophytic Vegetation Present? Yes	; X	No	Is the Sampled Are	a			
Hydric Soil Present? Yes	; <u>X</u>	No	within a Wetland?	Yes	Х	No	
Wetland Hydrology Present? Yes	, <u>X</u>	No	If yes, optional Wetla	and Site ID:			
Remarks: (Explain alternative procedures here o Open water with scrub shrub fringe/drainage	r in a s	separate report.)					

## HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one	X Surface Soil Cracks (B6)	
X Surface Water (A1)	X Drainage Patterns (B10)	
X High Water Table (A2)	X Moss Trim Lines (B16)	
X Saturation (A3)	Dry-Season Water Table (C2)	
Water Marks (B1)	Crayfish Burrows (C8)	
Sediment Deposits (B2)	Roots (C3) X Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	X Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Se	ils (C6) Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
X Inundation Visible on Aerial Ima	igery (B7)Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Su	urface (B8)	X FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes	X No Depth (inches): 4	
Water Table Present? Yes	X No Depth (inches): 0	
Saturation Present? Yes	X No Depth (inches): 0	Wetland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream ga	uge, monitoring well, aerial photos, previous ins	pections), if available:
Remarks:		
Unusually dry Autumn		

### VEGETATION - Use scientific names of plants.

Sampling Point: 3E-Wet-1

Tree Stratum (Plot size: 15 by 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Quercus palustris	15	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:5(A)
3 4				Total Number of Dominant Species Across All Strata:5(B)
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 by 20')				OBL species x 1 =
1. Cornus amomum	20	Yes	FACW	FACW species x 2 =
2. Lindera benzoin	15	Yes	FACW	FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: (A)(B)
6.				Prevalence Index = B/A =
7.				Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 10 by 15')				X 2 - Dominance Test is >50%
1 Lemna minor	50	Yes	OBI	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2 Persicaria sadittata	20	Yes		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3 Onoclea sensibilis	5	No		data in Remarks or on a separate sheet)
	5	No		Problematic Hydrophytic Vagatation <sup>1</sup> (Evaluin)
4. Carex spp.			TACIV	
5 6				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
8 9.		. <u> </u>		<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12				
	80	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum         (Plot size:)           1.        )				Woody vines – All woody vines greater than 3.28 ft in height.
2				Under wheed a
3				Hydropnytic Vegetation
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sep	arate sheet	.)		

Depth	Matrix	to the de	Ptil needed to doo Redo	x Featur	res		commune	absence		ators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu	re		Remar	ks
0.16	10VP 2/1	100								muck culf	ur amall
0-16	1018 3/1	100								muck - Sum	ur smeil
<sup>1</sup> Type: C=Co	ncentration, D=Dep	oletion, RN	M=Reduced Matrix,	MS=Ma	sked Sar	nd Grains	s. <sup>2</sup> Lo	ocation: PL	=Pore L	ining, M=Ma	atrix.
Hydric Soil Ir	ndicators:						Inc	dicators for	r Proble	ematic Hydr	ic Soils <sup>3</sup> :
X Histosol (	(A1)		Polyvalue Belo	ow Surfa	ace (S8) (	LRR R,		2 cm Muc	:k (A10)	(LRR K, L,	MLRA 149B)
Histic Epi	ipedon (A2)		MLRA 149B	3)				Coast Pra	airie Rec	lox (A16) ( <b>L</b> l	RR K, L, R)
Black His	stic (A3)		Thin Dark Surf	face (S9	9) (LRR R	, MLRA	149B)	5 cm Muc	ky Peat	or Peat (S3	) (LRR K, L, R)
X Hydrogen	n Sulfide (A4)		High Chroma	Sands (	S11) ( <b>LR</b>	R K, L)		Polyvalue	Below	Surface (S8)	) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	<b>R K, L</b> )			Surface	e (S9) ( <b>LRR</b>	K, L)
Depleted	Below Dark Surfac	e (A11)	Loamy Gleyed	Matrix	(F2)			_Iron-Mang	ganese I	Masses (F12	2) (LRR K, L, R)
Thick Dar	rk Surface (A12)		Depleted Matri	ıx (F3)				_Piedmont	Floodpl	ain Soils (F	19) (MLRA 149E
Sandy Mi	ucky Mineral (S1)		Redox Dark Si	urrace (I	F6)				odic (TA	10) ( <b>MLRA 1</b>	44A, 145, 149B
Sandy G	eyeu Mairix (54)		Depieted Dark	oione (E	= (F/)				ni walei	liai (FZT) k Surfaco (E	.00)
Strinned	Matrix (S6)		Marl (E10) (LE		0)			- Other (Ev	nlain in	Romarke)	22)
Suipped I	face $(S7)$			(K K, L)					piairi iri	itemarks)	
<sup>3</sup> Indicators of	hydrophytic vegeta	tion and v	vetland hydrology m	nust be i	present i	unless di	sturbed or p	roblematic			
Restrictive L	aver (if observed)	:			,						
Type:	<b>.</b> . ,										
Depth (in	iches):						Hydric S	oil Present	12	Yes X	No
										<u> </u>	
Remarks: This data form	n is revised from N	orthcentra	I and Northeast Re	dional S	Suppleme	nt Versio	n 2.0 to incl	ude the NR	CS Field	d Indicators	of Hydric Soils
Version 7.0, 2	2015 Errata. (http://	www.nrcs	.usda.gov/Internet/F	SE_DC	CUMEN	TS/nrcs1	42p2_05129	93.docx)			,

### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Central	Hudson Tran	smission Rebuil	d	C	ity/County: Dutche	SS		Sampling Date:	11/17/2021
Applicant/Owner:	Central Hude	son Gas & Electi	ric			State:	NY	Sampling Point	: W3F-1U
Investigator(s): Mega	an Aubertine/k	(yle Crawford			Section, To	wnship, Range:	Town of	Wappinger	
Landform (hillside, ter	race, etc.):	Flat		Local rel	ief (concave, conve	ex, none): None		Slope	%: <b>0-3</b>
Subregion (LRR or ML	RA): LRR F	۲	Lat:	41.61748	Long:	-73.88833		Datum:	WGS 84
Soil Map Unit Name:	Canandaigua	a silt loam				NWI class	ification		
Are climatic / hydrolog	ic conditions	on the site typica	al for t	his time of year?	Yes X	No	(If no,	explain in Remarks	s.)
Are Vegetation X	, Soil	, or Hydrology		significantly disturbed	d? Are "Norr	nal Circumstand	es" pres	ent? Yes X	No
Are Vegetation	, Soil	, or Hydrology		naturally problematic	? (If neede	d, explain any ai	nswers i	n Remarks.)	
SUMMARY OF F	INDINGS -	Attach site	map	showing sampl	ing point locat	ions, transe	cts, in	nportant featur	res, etc.

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu Vegetation disturbed as it is regularly i	res here or in a mowed.	separate report.)	

### HYDROLOGY

Wetland Hydrology Indicate	ors:				Secondary Indicators (min	nimum of two required)	
Primary Indicators (minimum	of one is requir	red; check all	that apply)		Surface Soil Cracks (I	B6)	
Surface Water (A1)		Drainage Patterns (B	10)				
High Water Table (A2) Aquatic Fauna (B13)					Moss Trim Lines (B16)		
Saturation (A3) Marl Deposits (B15)				Dry-Season Water Ta	able (C2)		
Water Marks (B1) Hydrogen Sulfide Odor (C1)					Crayfish Burrows (C8)	)	
Sediment Deposits (B2)		Oxidize	ed Rhizospheres on Living F	Roots (C3)	Saturation Visible on A	Aerial Imagery (C9)	
Drift Deposits (B3)		Presen	ice of Reduced Iron (C4)		Stunted or Stressed F	Plants (D1)	
Algal Mat or Crust (B4)		Recent	t Iron Reduction in Tilled So	oils (C6)	Geomorphic Position	(D2)	
Iron Deposits (B5)		Thin M	uck Surface (C7)		Shallow Aquitard (D3)	)	
Inundation Visible on Ae	rial Imagery (B7	) Other (	Explain in Remarks)		Microtopographic Reli	ief (D4)	
Sparsely Vegetated Con	cave Surface (E	38)			FAC-Neutral Test (D5	5)	
Field Observations:							
Surface Water Present?	Yes	No X	Depth (inches):				
	<u> </u>						
Water Table Present?	Yes	No X	Depth (inches):				
Water Table Present? Saturation Present?	Yes Yes	No <u>X</u> No X	Depth (inches): Depth (inches):	Wetlar	nd Hydrology Present?	Yes No X	
Water Table Present? Saturation Present? (includes capillary fringe)	Yes Yes	No <u>X</u> No <u>X</u>	Depth (inches): Depth (inches):	Wetlar	nd Hydrology Present?	Yes No _ X	
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str	Yes Yes eam gauge, mo	No X No X nitoring well,	Depth (inches): Depth (inches): aerial photos, previous insp	Wetlar pections), if	nd Hydrology Present? available:	Yes No X	
Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (str Remarks:	Yes Yes eam gauge, mo	No X No X nitoring well,	Depth (inches): Depth (inches): aerial photos, previous insp	Wetlar	nd Hydrology Present? available:	Yes <u>No X</u>	

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

Sampling Point: W3F-1U

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1.       2.				Number of Dominant Species That Are OBL, FACW, or FAC:0 (A)
3 4				Total Number of Dominant Species Across All Strata: 1 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:0.0% (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15)				OBL species 0 x 1 = 0
1.				FACW species 0 x 2 = 0
2.				FAC species $0 \times 3 = 0$
3.				FACU species $0   x 4 = 0$
4.				UPL species 85 x 5 = 425
5.				Column Totals: 85 (A) 425 (B)
6.				Prevalence Index = B/A = 5.00
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				2 - Dominance Test is >50%
1. Poa pratensis	80	Yes	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Trifolium sp.	5	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3				data in remarks of on a separate sheety
4				Problematic Hydrophytic Vegetation (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
6				be present, unless disturbed or problematic.
/				Deminitions of Vegetation Strata.
9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10 11				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12		=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				<b>Woody vines</b> – All woody vines greater than 3.28 ft in
2				noight.
3				Hydrophytic
4				Vegetation Present? Yes No X
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa Upland mowed lawn grasses also present.	rate sheet.)			

Depth	. Matrix		Redo	x Featur	res			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0_8	10VP 3/3	100						
	1011(3/3	100			·		Loanty/Clayey	
	·							
	·							
<sup>1</sup> Type: C=C	concentration, D=Dep	letion, RM	1=Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for	or Problematic Hydric Soils <sup>3</sup> :
Histoso	I (A1)		Polyvalue Belo	ow Surfa	ice (S8) ( <b>I</b>	_RR R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic E	pipedon (A2)		MLRA 149B	5)			Coast Pr	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black H	listic (A3)		Thin Dark Surf	ace (S9	) (LRR R,	MLRA 1	149B) 5 cm Mu	cky Peat or Peat (S3) (LRR K, L, R)
Hydroge	en Sulfide (A4)		High Chroma S	Sands (S	511) ( <b>LRF</b>	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
Stratifie	d Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b> F	R K, L)	Thin Dar	k Surface (S9) (LRR K, L)
Deplete	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Man	nganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)			IX (F3) faaa /Г	-0)		Pleamon	IT Floodplain Solis (F19) (MLRA 1498
Sandy i	Nucky Mineral (ST)		Redox Dark St	Linace (F	-0) > (E7)		Mesic Sp	Dodic (TA6) (MLRA 144A, 145, 149B)
Sandy [	2  odox (S5)		Depieted Dark	Sunace	e ( <i>Г1)</i>			ent Material ( $F2T$ )
Stripper	4 Matrix (S6)		Marl (E10) (I B		0)		Very Sile	volain in Remarks)
Outpped	urface (S7)			, <b>∟</b> )				
<sup>3</sup> Indicators of	of hydrophytic vegetat	ion and w	etland hydrology mu	ust be pi	resent. ur	less dist	urbed or problematic.	
Restrictive	Layer (if observed):		, , , , , , , , , , , , , , , , , , , ,	•	,			
Type:	N/A	4						
Depth (	inches).						Hydric Soil Preser	nt? Yes No X
								<u> </u>
Remarks:	rm is rovised from No	ortheoptro	and Northoast Pog	ional Su	unnlomont	Vorcion	2.0 to include the NPC	29 Field Indicators of Hydric Soils
Version 7.0.	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/F	SE DO	CUMENT	S/nrcs14	2p2 051293.docx)	
			Ū	—			,	

### WETLAND DETERMINATION DATA FORM – Northcentral and Northeast Region

Project/Site: Central Hudson Transmission Rebuild	City/County: Dutchess	Sampling Date: 11/17/2021
Applicant/Owner: Central Hudson Gas & Electri	c State	: NY Sampling Point: <u>W3F-1W</u>
Investigator(s): Megan Aubertine/Kyle Crawford	Section, Township, Range	: Town of Wappinger
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): Con	cave Slope %: 0-3
Subregion (LRR or MLRA): LRR R	Lat: 41.61748 Long: -73.88833	Datum: WGS 84
Soil Map Unit Name: Canandaigua silt loam	NWI clas	sification:
Are climatic / hydrologic conditions on the site typica	for this time of year? Yes X No	(If no, explain in Remarks.)
Are Vegetation X , Soil , or Hydrology	significantly disturbed? Are "Normal Circumstar	ices" present? Yes X No
Are Vegetation, Soil, or Hydrology _	naturally problematic? (If needed, explain any a	answers in Remarks.)
SUMMARY OF FINDINGS – Attach site r	nap showing sampling point locations, trans	ects, important features, etc.
Hydrophytic Vegetation Present? Yes	X No Is the Sampled Area	
Hydric Soil Present? Yes	X No within a Wetland? Ye	es_X_No
Wetland Hydrology Present? Yes	X No If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in Wetland vegetation is disturbed as the wetland is lo	n a separate report.) cated within a maintained lawn where vegetation is regularly	y mowed.

### HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks (B6)	
X Surface Water (A1)	Drainage Patterns (B10)			
X High Water Table (A2)		Moss Trim Lines (B16)		
X Saturation (A3)		Dry-Season Water Table (C2)		
Water Marks (B1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	X Saturation Visible on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)	
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Relief (D4)	
Sparsely Vegetated Concave Surface (B	3)		X FAC-Neutral Test (D5)	
Field Observations:				
Surface Water Present? Yes X	No Depth (inches): 3			
Water Table Present? Yes X				
Saturation Present? Yes X	No Depth (inches):0	Wetlan	d Hydrology Present? Yes X No	
Saturation Present? Yes X (includes capillary fringe)	No Depth (inches):	Wetlan	d Hydrology Present? Yes X No	
Saturation Present?     Yes     X       (includes capillary fringe)	No Depth (inches): No Depth (inches): itoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches): No Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present? Yes X (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No Depth (inches): No Depth (inches):	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?     Yes     X       (includes capillary fringe)     Describe Recorded Data (stream gauge, mor       Remarks:	No Depth (inches):	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?     Yes     X       (includes capillary fringe)     Describe Recorded Data (stream gauge, mor       Remarks:	No Depth (inches): No Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?     Yes     X       (includes capillary fringe)     Describe Recorded Data (stream gauge, mor       Remarks:	No Depth (inches): No Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?     Yes     X       (includes capillary fringe)       Describe Recorded Data (stream gauge, mor       Remarks:	No Depth (inches): No Depth (inches): itoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?     Yes     X       (includes capillary fringe)     Describe Recorded Data (stream gauge, mor       Remarks:	No Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?     Yes       Saturation Present?     Yes       (includes capillary fringe)       Describe Recorded Data (stream gauge, mor	No Depth (inches): nitoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?     Yes     X       (includes capillary fringe)	No Depth (inches):	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?       Yes X         (includes capillary fringe)         Describe Recorded Data (stream gauge, mor         Remarks:	No Depth (inches): itoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	
Saturation Present?       Yes X         (includes capillary fringe)         Describe Recorded Data (stream gauge, mor         Remarks:	No Depth (inches): itoring well, aerial photos, previous inspe	Wetlan ctions), if a	d Hydrology Present? Yes X No	

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

Sampling Point: W3F-1W

1.	(A)
3.	(B)
5.	(A/B)
7 Prevalence Index worksheet:	
=Total Cover Total % Cover of: Multiply by:	_
Sapling/Shrub Stratum         (Plot size: 15 )         OBL species 20 x 1 = 20	
1 FACW species x 2 =	
2. FAC species 0 x 3 = 0	
3. FACU species 0 x 4 = 0	
4. UPL species 0 x 5 = 0	_
5. Column Totals: 20 (A) 20	— (B)
6. Prevalence Index = B/A = 1.00	_ ` ´
7. Hydrophytic Vegetation Indicators:	
=Total Cover 1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5 ) X 2 - Dominance Test is >50%	
$\frac{1}{1 - Eleocharis sp}$	
$\frac{1}{2} = \frac{1}{2} = \frac{1}$	nortina
data in Remarks or on a separate sheet	porting
0	in)
	in)
5 <sup>1</sup> Indicators of hydric soil and wetland hydrology	nust
6 be present, unless disturbed or problematic.	
C Definitions of Vegetation Strata:	
<sup>8.</sup> <b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in	
9 diameter at breast height (DBH), regardless of	eight.
10.         Sapling/shrub – Woody plants less than 3 in.	BH
11.          and greater than or equal to 3.28 ft (1 m) tall.	
12 Herb – All herbaceous (non-woody) plants, reg	rdless
Woody Vine Stratum (Plot size: 30) Woody vines – All woody vines greater than 3	28 ft in
1 height.	
2	
3 Hydrophytic	
4 Present? Yes X No	
=Total Cover	
Remarks: (Include photo numbers here or on a separate sheet.) Upland mowed lawn grasses also present.	

Color (moist)	0/		( i outui	63			
	70	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
10YR 4/2	95	10YR 4/6	5	C	M	Loamy/Clayey	Prominent redox concentrations
entration, D=Deple	etion, RM	=Reduced Matrix, N	IS=Mas	ked Sand	l Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
icators:						Indicators	for Problematic Hydric Soils <sup>3</sup> :
1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm M	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
edon (A2)		MLRA 149B	)				Prairie Redox (A16) (LRR K, L, R)
(A3)		High Chroma S	ace (59 ands (5		, MILRA <sup>·</sup> DKLI)	149B) 5 CM M	ucky Peal of Peal (S3) (LRR K, L, R)
avers (A5)		I oamy Mucky I	Mineral	(F1) ( <b>LR</b>	RKI)	Folyvail Thin Da	ark Surface (S9) (IRR K I)
elow Dark Surface	(A11)	Loamy Gleved	Matrix (	(F2)	( I, L)	Iron-Ma	inganese Masses (F12) (LRR K. L. R)
Surface (A12)	(,)	X Depleted Matrix	(F3)	/		Piedmo	nt Floodplain Soils (F19) ( <b>MLRA 149</b>
ky Mineral (S1)		Redox Dark Su	rface (F	-6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b>
ed Matrix (S4)		Depleted Dark	Surface	e (F7)		 Red Pa	rent Material (F21)
ox (S5)		Redox Depress	ions (F	8)		Very Sh	nallow Dark Surface (F22)
atrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K, L</b> )			Other (B	Explain in Remarks)
ce (S7)							
/drophytic vegetatio	on and w	etland hydrology mu	st be pi	resent, ur	iless dist	urbed or problematic.	
er (if observed):							
N/A							
les):						Hydric Soil Prese	ent? Yes <u>X</u> No
8 inches.							
	entration, D=Deple icators: 1) edon (A2) (A3) Sulfide (A4) ayers (A5) elow Dark Surface Surface (A12) ky Mineral (S1) red Matrix (S4) ox (S5) atrix (S6) ce (S7) /drophytic vegetation rer (if observed): N/A res): 8 inches.	entration, D=Depletion, RM icators: 1) edon (A2) : (A3) Sulfide (A4) ayers (A5) elow Dark Surface (A11) Surface (A12) ky Mineral (S1) red Matrix (S4) ox (S5) atrix (S6) :e (S7) /drophytic vegetation and w/ rer (if observed): N/A res): 8 inches.	entration, D=Depletion, RM=Reduced Matrix, M         icators:         1)      Polyvalue Belo         icators:         1)      Polyvalue Belo         icators:	entration, D=Depletion, RM=Reduced Matrix, MS=Mas         icators:         1)       Polyvalue Below Surfa         adon (A2)       MLRA 149B)         : (A3)       Thin Dark Surface (S9         Sulfide (A4)       High Chroma Sands (S         ayers (A5)       Loamy Mucky Mineral         elow Dark Surface (A11)       Loamy Gleyed Matrix (F3)         Surface (A12)       X Depleted Matrix (F3)         ky Mineral (S1)       Redox Dark Surface (F         red Matrix (S4)       Depleted Dark Surface (F         ox (S5)       Redox Depressions (F         atrix (S6)       Marl (F10) (LRR K, L)         := (S7)       N/A         #8 inches.       8 inches.			entration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup> Location: 1         icators:       Indicators         indicators:       Indicators         isdon (A2)       MLRA 149B)       Coast F         (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm M         Surface (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S9) (LRR K, L)         generation (A2)       MLRA 149B)       Coast F         (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm M         ioufide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Dark Surface (A11)         Loamy Mucky Mineral (F1) (LRR K, L)       Polyvalue Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)         Surface (A12)       X       Depleted Matrix (F3)       Piedmod ky Mineral (S1)         Ky Mineral (S1)       Redox Dark Surface (F6)       Mesic S         Mari (F10) (LRR K, L)       Other (10)       Other (10)         xitx (S6)       Mari (F10) (LRR K, L)       Other (10)         xitx (S6)       Mari (F10) (LRR K, L)       Other (10)         xitx (S6)       Mari (F10) (LRR K, L)       Other (10)         xitx (S6)       Mari (F10) (LRR K, L)       Mari (F10)         xitx (S6)       Mari (F10) (LRR K, L)       Mari (

# APPENDIX C

Photo Documentation



### Photo 1

Representative photo of emergent Wetland U (10/10/2017)

### Photo 2

Representative photo of emergent Wetland U extension (11/16/2021)

## 69kV KM Electric Transmission Line Replacement Project

Towns of Wappinger and Poughkeepsie, Dutchess County, New York





### Photo 3

Representative photo of emergent Wetland T (10/10/2017)

### Photo 4

Representative photo of emergent Wetland T extension (11/16/2021)

## 69kV KM Electric Transmission Line Replacement Project

Towns of Wappinger and Poughkeepsie, Dutchess County, New York







### Photo 5

Representative photo of scrubshrub Wetland T (11/16/2021)

# Photo 6

Representative photo of scrubshrub Wetland W (11/16/2021)



## 69kV KM Electric Transmission Line Replacement Project

Towns of Wappinger and Poughkeepsie, Dutchess County, New York





Photo 7

Representative photo of forested Wetland X (11/16/2021)

### Photo 8

Representative photo of open water Wetland 3F (11/16/2021)

## 69kV KM Electric Transmission Line Replacement Project

Towns of Wappinger and Poughkeepsie, Dutchess County, New York





### Photo 9

Representative photo of perennial Stream 3E and surrounding scrub-shrub Wetland 3E (11/16/2021)



Photo 10

Representative photo of perennial Stream 3D (10/11/2017)

## 69kV KM Electric Transmission Line Replacement Project

Towns of Wappinger and Poughkeepsie, Dutchess County, New York

