# APPENDIX M CASE 10-T-0139 WATERBODY INVENTORY (114A) & WETLAND DELINEATION REPORT

# Wetland & Waterbodies Delineation Report



# Champlain Hudson Power Express Segment 10 – Package 6

# Selkirk – Catskill, New York

CHA Project Number: 066076

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- Attachment 3 NRCS Soil Maps
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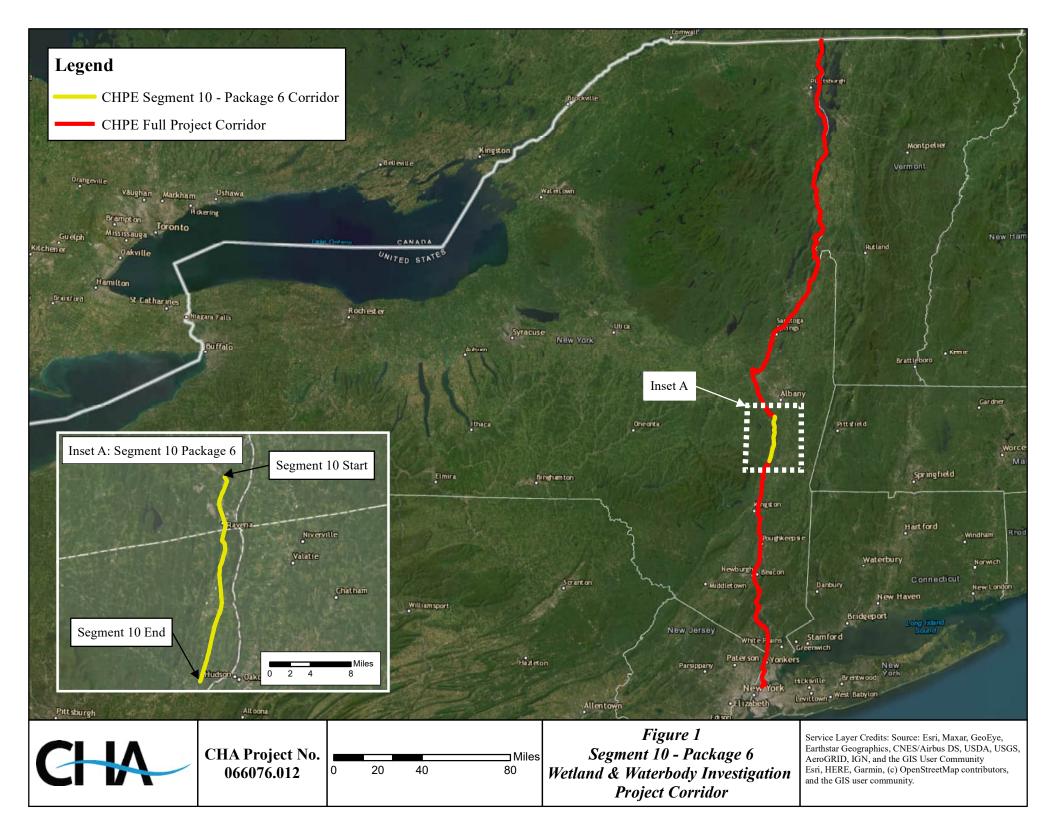
## **1.0 INTRODUCTION**

CHA Consulting, Inc. ("CHA") has prepared this wetland delineation report on behalf of Champlain Hudson Power Express, Inc. ("CHPE") and Kiewit Construction (Kiewit) for the Champlain Hudson Power Express Project (Project). CHA was retained by Kiewit to identify and delineate jurisdictional wetlands and waterbodies regulated under Section 404 of the Clean Water Act (CWA), Section 10 of the Rivers and Harbors Act of 1899, and Article 24 Freshwater Wetlands Act (FWW)) & Article 15 (Protection of Waters) of the Environmental Conservation Law along the overland transmission cable route that follows CSX railroad right-of-way ("ROW") herein referred to as the Project Corridor. Delineations were conducted with the objective of verifying and updating previous wetland delineations performed for the Project Corridor to complete the Article VII and Section 10/404 permitting processes. This report describes the wetland delineation methodology and the existing wetland and waterbody resources that were identified in the Project Corridor during field surveys for the overland portions of the Project.

## 2.0 SEGMENT 10 - PACKAGE 6 CORRIDOR OVERVIEW

The entire Project Corridor is approximately 339 miles from Montreal, Quebec, Canada to New York City, New York, USA. Figure 1 below shows the route from the Canadian border to New York City and highlights the approximately 20.9 miles of the Segment 10 - Package 6 Project Corridor that was investigated for wetlands and waterbodies.

Segment 10 - Package 6 begins in the Town of Bethlehem, NY where Segment 9 terminates (60000+00). Segment 10 - Package 6 extends south approximately 20.9 miles on CSX rail through the Towns of Coeymans, New Baltimore, Coxsackie, Athens, and Catskill.



## 3.0 WETLAND DELINEATION METHODOLOGY

To determine the potential for wetland impacts from construction of the Project, the CHA field team (assisted by Fisher Associates (Fisher), Shumaker Consulting Engineering & Land Surveying, D.P.C. (Shumaker), and Greenman Pedersen, Inc. (GPI) assessed the Project Corridor in the field for the presence of federal (Section 404 CWA & Section 10 of the Rivers and Harbors Act of 1899) and state (Article 24 FWW & Article 15 Protection of Waters) jurisdictional wetlands and waterbodies. Wetland scientists conducted wetland delineations in November and December 2021, throughout 2022, and additional areas in 2023. The delineation criteria and methodology were performed in accordance with the *1987 Corps of Engineers Wetland Delineation Manual*, the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual*. Northcentral and Northeast Region Version 2.0 (January 2012), as well as the New York State Freshwater Wetlands Delineation Manual (Browne et. al., 1995).

The Project Corridor for the surveyed portions of the project included the land within the existing CSX railroad ROW and areas within and outside of ROWs along roadways and areas of undeveloped lands that connect these ROW's. The initial wetland delineation limits were approximately 50 feet from the edge of pavement and approximately 100 feet from the outside edge of rail, limited to the side of the road or railroad corridor on which the alignment follows and primarily within the ROW of roads and railroad. However, these limits vary considerably throughout this package to accommodate alignment shifts and access roads, which required supplemental delineation in 2022 and 2023.

In accordance with the procedures provided in the *Corps of Engineers Wetland Delineation Manual (1987)*, and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region*, Version 2.0 (January 2012), the "Routine Wetland Determination" method was used to delineate wetland boundaries.

The wetland boundaries were determined in the field based on the three-parameter approach, whereby an area is a wetland if it exhibits vegetation adapted to wet conditions (hydrophytes), hydric soils, and the presence or evidence of water at or near the soil surface during the growing season (hydrology).

Coded surveyor's ribbons (eg, flag code A-1, A-2, etc.) were placed along the wetland boundaries based on observations of vegetation, soils and hydrologic conditions. Data points were recorded along the wetland boundaries at various locations across different vegetative community types correlating to each wetland. At each location a wetland data point and an upland data point were

recorded to show the difference between the wetland and upland habitats. At a minimum, one data point set (wetland and upland) was collected for each wetland. Additional data points were collected for large wetlands and for changes in vegetative communities. Wetland Determination Data Sheets corresponding to each point can be found in Attachment 1.

Wetlands within the Segment 10 – Package 6 Project Corridor fall under the jurisdiction of the New York State Department of Environmental Conservation (NYSDEC) and/or the U.S. Army Corps of Engineers (USACE). The New York State methodology similarly recognizes the three parameters of vegetation, soils, and hydrology; however, under the New York State method the hydrophytic vegetation criterion is mandatory, while the other two parameters are not (Browne et. al. 1995). Wetlands regulated by NYSDEC must be at least 12.4 acres (5 hectares) in size, unless they are deemed to have unusual local importance (Article 24 FWW). The NYSDEC publishes maps of wetland areas under state jurisdiction; however, they use field delineation to determine the precise boundaries of these wetland areas.

Prior to actual field delineations for wetland resources, CHA reviewed USGS 7.5-minute topographic maps, aerial photographs, National Wetland Inventory (NWI) mapping, United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) soil mapping, and NYSDEC freshwater wetlands mapping to identify potential wetland features present within the Project Corridor. More importantly, CHA used the previous wetland delineation prepared for this Project Corridor for the purposes of verifying and modifying the previous delineation. Refer to Attachment 2 for NWI and NYSDEC Freshwater Wetlands & Stream Mapping and Attachment 3 for NRCS Soil Mapping.

Ditches that met the three parameters for wetland delineation (i.e., presence of hydrology, hydric soils, and hydrophytic vegetation) were identified as a wetland community. Those that did not but carried stream flow from off-site (redirecting flow through the ditch), were categorized as streams.

Waterbodies within the Project Corridor, including streams under NYSDEC Article 15 jurisdiction, were identified by the presence of an ordinary high-water mark (OHWM) or stream channel. Delineation and flagging were completed to identify the OHWM for most perennial and intermittent streams. Bankfull width and depth were estimated in the field.

This report documents the wetlands and waterbodies potentially under federal and State jurisdiction that were identified in the Segment 10 Project Corridor along the current proposed underground transmission cable route. Summaries of wetlands that were identified are provided in Table 4-1 in Attachment 4. Wetlands and Waterbodies Delineation Mapping is included in Attachment 5. Wetland determination data forms and photographic documentation of the wetlands are included in Attachment 1.

## 4.0 WETLAND & WATERBODIES DELINEATION RESULTS

A total of 122 wetland areas totaling approximately 167 acres were identified along the Segment 10-Package 6 Project Corridor (also defined as the Jurisdiction Determination limits). Table 4-1 in Attachment 4 provides a summary of the wetlands identified along the Project Corridor, including their classification in accordance with Cowardin et al. (1979) and their state or federal jurisdiction. Of these, twenty (20) wetlands delineated along the Project Corridor correspond with wetlands mapped by the NYSDEC. These include NYSDEC mapped wetlands HN-101, HN-118, and HN-108.

Narrative descriptions of wetland vegetation, hydrology, and soils observed within the Project Corridor are presented in the following sections. The wetlands and waterbodies delineated within the surveyed areas are summarized in Table 4-1 and Table 4-2. Table 4-3 provides the soil series information. Refer to Attachment 4 for each of these tables. The Wetlands and Waterbodies Delineation Mapping provided in Attachment 5 shows the locations of delineated wetlands and waterbodies. Photographs of the waterbodies can be found in Attachment 6

#### 4.1 VEGETATION

Vegetative communities within wetlands are described according to *Ecological Communities of New York State, Second Edition* (Edinger 2014)<sup>l</sup> and *Classification of Wetlands and Deepwater Habitats of the United States* (Cowardin 1979)<sup>2</sup>. Using this hierarchical wetland classification system three primary cover types were identified for vegetated wetlands in the survey corridor: palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO) wetlands.

<sup>&</sup>lt;sup>1</sup> Edinger, G. J., D. J. Evans, S. Gebauer, T. G. Howard, D. M. Hunt, and A. M. Olivero (editors). 2014. *Ecological* Communities *of New York State*. Second Edition. A revised and expanded edition of Carol Reshke's *Ecological Communities of New York State*. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

<sup>&</sup>lt;sup>2</sup> Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe, 1979. *Classification of wetlands and deepwater habitats of the United States*. U. S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.

Some wetlands contained co-dominant emergent, scrub-shrub, or forested vegetation. Open water areas were identified as palustrine unconsolidated bottom (PUB).

#### 4.1.1 Palustrine Emergent Wetland

The palustrine emergent wetland cover type is characterized by erect, rooted, herbaceous hydrophytes, excluding mosses and lichens (Cowardin et. al., 1979). The freshwater emergent wetlands along the Project survey area primarily include shallow emergent marshes, deep emergent marshes, common reed/purple loosestrife marshes, and ditch/artificial intermittent stream channels (Edinger et. al., 2014). PEM wetlands occur as a single dominant wetland cover type, and as a co-dominant wetland type when other plant community types exist within the wetland.

Shallow emergent marshes occur on mineral soils or deep muck soils that are permanently saturated and seasonally flooded. Water depths range from 6 inches to 3.3 feet during flood stages (Edinger et. al., 2014). Characteristic vegetation of shallow emergent marshes within the Project Corridor includes cattails (*Typha* spp.), sedges (*Carex* spp.), goldenrods (*Solidago* spp.), field horsetail (*Equisetum arvense*), sensitive fern (*Onoclea sensibilis*), and soft rush (*Juncus effusus*). Invasive species observed within the shallow emergent marshes include common reed (*Phragmites australis*) and purple loosestrife (*Lythrum salicaria*).

Deep emergent marshes occur on mineral soils or fine-grained organic soils with water depths ranging from 6 inches to 6.6 feet (Edinger et. al., 2014). Emergent vegetation observed within deep emergent marshes in the Project Corridor includes cattails and bulrushes (*Scirpus* spp.). Common reed and purple loosestrife were observed within some of the deep emergent marshes within the Project Corridor.

Common reed/purple loosestrife marshes consist of disturbed marshes where common reed or purple loosestrife has become dominant (Edinger et. al., 2014). This community was commonly found within disturbed areas adjacent to the CSX rail bed.

The ditch/artificial intermittent stream community consists of artificial waterways constructed for drainage or irrigation (Edinger et. al., 2014). Vegetation within the ditches is typically dominated by grasses and sedges. Invasive species such as common reed, purple loosestrife, and reed canary grass are commonly found within the ditches along the railroad ROW.

#### 4.1.2 Palustrine Scrub-Shrub Wetland

The scrub-shrub wetland cover type includes areas that are dominated by shrubs and saplings that are less than 6 meters (20 feet) tall (Cowardin et. al., 1979), and have less than 50 percent aerial cover by trees. Scrub-shrub wetlands along the Project Corridor were dominated by red osier dogwood (*Cornus sericea*), gray dogwood (*Cornus racemosa*), glossy buckthorn (*Rhamnus frangula*), and honeysuckle (*Lonicera* spp.). Other vegetation observed includes silky dogwood (*Cornus amomum*), common buckthorn (*Rhamnus cathartica*), and pin oak (*Quercus palustris*). Invasive species observed within scrub-shrub wetlands includes honeysuckle, common buckthorn, and glossy buckthorn. PSS wetlands occur as a single dominant wetland cover type, and as a co-dominant wetland type when other plant community types exist within the wetland.

#### 4.1.3 Palustrine Forested Wetland

Forested wetland cover types are dominated by trees and shrubs that have developed a tolerance to a seasonal high-water table. For a community to be characterized as forested, a wetland must be dominated by trees and shrubs that are at least six meters tall (Cowardin et. al., 1979). Forested wetlands typically have a mature tree canopy, and depending upon the species and density, can have a broad range of understory and groundcover community components (Edinger et al., 2014). Forested wetland communities along the Project Corridor include red maple hardwood swamps (Edinger et al., 2014). PFO wetlands occur as a single dominant wetland cover type, and as a co-dominant wetland type when other plant community types exist within the wetland.

Red maple-hardwood swamps occur in poorly drained depressions, usually on inorganic soils. Red maple is either the only dominant tree species or is codominant with one or more hardwoods (Edinger et. al, 2014). Hardwood species observed within this community type within the Project Corridor include green and white ash (*Fraxinus pennsylvanica and F. americana*), pin oak, and swamp white oak (*Quercus bicolor*). Shrub species commonly observed within red maple-hardwood swamps in the Project Corridor include American hornbeam (*Carpinus caroliniana*), dogwoods, buckthorns, and honeysuckle. The herbaceous layer typically includes sensitive fern, moneywort (*Lysimachia nummularia*), northern bedstraw (*Galium boreale*), and goldenrods. Invasive species observed within red maple-hardwood forests included honeysuckle, buckthorn, common reed, and purple loosestrife.

#### 4.1.4 Open Water

Besides vegetated wetlands, a couple scattered small ponds are located along the transmission cable corridor, as are streams. As previously noted, open water communities are identified as palustrine unconsolidated bottom (PUB). This community is characterized by a vegetation cover of less than 30 percent, although there may often be emergent or shrubby vegetation bordering the open water areas (Edinger et. al., 2014). Characteristic species observed along the edges of these communities were cattail species (*Typha* spp.), common duckweed (*Lemna minor*) and a variety of sedge species (*Carex* spp.). Pond substrates may be silt, mud, cobble, or sand.

#### 4.2 HYDROLOGY

#### 4.2.1 Streams

Table 4-2 lists the 57 streams (perennial [14], intermittent [43]) identified within the Project Corridor, which is located within the Middle Hudson Basin. This watershed stretches across New York and Massachusetts, encompassing over 1,554,773 acres. Perennial waterbodies within the Project Corridor include Coeymans Creek, Hannacrois Creek, Sickles Creek, Coxsackie Creek, Murderers Creek, Corlaer Kill, as well as unnamed tributaries connected to these watersheds identified on USGS Topographic Maps and/or identified during the field delineation.

#### 4.2.2 Wetlands

Site hydrology was examined within each wetland and adjacent upland areas. Indicators of wetland hydrology included inundation (A1) or evidence of inundation (A2 & A3) (such as water-stained leaves (B9)), saturation within the upper portion of the soil (A3) during the growing season, water marks (B1), drainage patterns (B10), hydrogen sulfide odor (C1), presence of reduced iron (C4), stunted or stressed plants (D1), and geomorphic position (D2) in the upper 12 inches of soil (Attachment 1). Hydrologic factors contributing to the presence of wetland hydrology within wetlands in the Project Corridor included inundation with river, pond, or stream water, temporarily ponded runoff, and seasonally to permanently shallow groundwater tables.

Hydrology along the Project Corridor has been historically altered by railroad drainage ditches. The wetland delineators inspected these ditches for the presence or absence of wetland indicators and hydrologic connectivity to wetlands or streams.

#### 4.3 SOILS

The USDA NRCS soil map units for the Project Corridor are provided in Attachment 3. Indicators of hydric soils included histosol (A1), hydrogen sulfide (A4), thick dark surface (A12), sandy redox (S5), dark surface (S7), depleted matrix (F3), redox dark surface (F6), and depleted dark surface (F7) (Attachment 1). Within the Project Corridor, a total of 56 different soil types have been mapped by the NRCS. The mapped soil types range from excessively drained to very poorly drained soils. According to the soil map descriptions (Attachment 3), seven (7) of the soils mapped within the Project Corridor are rated as hydric soils (Covington and Madalin soils, Fluvaquents-Udifluvents complex frequently flooded (Fu & Fx), Madalin silt loam, Raynham very fine sandy loam, shaker fine sandy loam, and Wayland soils complex frequently flooded). Hydric soils are defined as soils "that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part of the soil" (Federal Register, 1994). Table 4-3 summarizes the soil series in the Project Corridor and lists the soils that are classified as hydric (or associated with wetland hydrology) in the Project Corridor.

Many soils within the Project Corridor are formed from glacial parent materials including outwash, dense till, loose till, and glaciomarine deposits. In active floodplains, soils are formed in recent alluvium. Anthropogenically disturbed soils, associated with railroad construction and operation, are common within the Project Corridor. The disturbed soils consist of disturbed natural deposits or human transported materials.

## 4.4 NATURAL RESOURCE CONSERVATION SERVICE SOIL SERIES DESCRIPTIONS

The following are the abbreviated descriptions of each of the relevant soil types taken from the USDA Web Soil Survey (NRCS, USDA 2022). Soils survey mapping and additional information regarding relevant soil characteristics are provided in Attachment 3.

## Chenango Series (CnA)

These are very deep, well and somewhat excessively drained soils formed in water-sorted material on outwash plains, kames, eskers, terraces, and alluvial fans. Slope ranges from 0 to 60 percent. Typically, the A horizon is a very dark grayish brown gravelly silt loam, with very weak fine subangular blocky and very blocky structure, extending 0 to 8 inches. The B horizon is dark yellowish brown to brown very gravelly silt loam, with very weak to moderate subangular blocky or granular structure. The C horizon is a dark grayish brown to brown to brown extremely loamy coarse

sand, with an upper surface of pebbles, few roots, and 10 percent soft dark brown and dark yellowish brown weathered pebbles. This horizon can be strongly acidic.

#### Claverack Series (CIA & CIB)

These are very deep, moderately well drained soils formed in sandy deposits that overlie clayey lacustrine sediments. They are nearly level to sloping soils in shallow deltas on lake plains. The sand, which overlies finer textured sediments, is dominated by quartz and has been derived primarily from non-calcareous sandstone or granite. Slope ranges from 0 to 15 percent. Typically, the A horizon consists of a fine sand and is usually a dark grayish brown color. The B horizon consists of structureless sand. In some places, the lower part of the B horizon has gray or grayish brown redoximorphic features below a depth of 18 inches. The C horizon is a silty clay loam or clay with some sub-horizons of silt or loam, up to 5 inches thick.

#### **Colonie Series (CoB)**

These very deep, well drained to excessively drained soils formed in glaciolacustrine, glaciofluvial, or eolian deposits dominated by fine sand and very fine sand. These soils can be found on nearly level to steeply dissected slopes on Wisconsinan age lake plains, outwash plains, beach ridges, dunes, and deltas. Slopes range from 0 to 60 percent. The A horizon is dark grayish brown loamy fine sand with weak fine and very fine granular structure extending 0 to 8 inches. An E horizon is sometimes present. The texture is dominantly fine sand or loamy fine sand. The B horizon is a brown fine sand. The C horizon is brown fine sand extending 63 to 80 inches. Some pedons have redoximorphic features below 40 inches.

#### **Covington Series (Co)**

These are very deep and poorly drained soils formed in calcareous clayey glacio-lacustrine or glacio-estuarine deposits on glacial lake plains. These soils are found on broad plains, depressions, and drainageways. Slopes range from 0 to 8 percent. The A horizon consists of very dark brown silty clay or silty clay loam with granular or blocky structure, to a depth of 8 inches. The B horizon is dark gray firm to very firm, sticky, or plastic clay with thin sub-horizons of silty clay, extending to a depth of 33 inches. High chroma redoximorphic features are typical of this horizon. The C horizon is typically dark gray firm to very firm, sticky, or plastic clay or silty clay or silty clay, although silt and silt loam varves alternate with clay varves in some pedons. The C horizon may extend to a depth of 65 inches and has redoximorphic features like that of the B horizon.

#### Dumps, Landfill (Du)

Dumps, Landfill soils consists of sanitary landfills, industrial dumps, and other sites that have been used for disposal of trash and rubble. Material deposited in these areas consist of paper, building materials, tree stumps, rock, and concrete fragments. Slopes range from 5 to 25 percent. This map unit includes very few areas of soil material.

#### Elmridge series (EIA and EnA)

These are very deep, moderately well drained soils formed in loamy over clayey sediments. They are nearly level to moderately steep soils on glacial lacustrine and marine terraces, and on lake plains. Slope ranges from 0 to 25 percent. Typically, the A horizon consists of a fine sandy loam usually a very dark grayish brown with weak medium granular structure, extending from 0 to 6 inches. The B horizon consists of dark yellowish brown fine dandy loam with weak or moderate granular or subangular blocky structure. The B horizon has iron depletions above a depth of 24 inches. The C horizon is an olive brown varved silt and clay with massive separating to weak thick plates along varved bedding planes.

#### Elnora series (EnA)

These soils are very deep and moderately well drained. These soils formed in sandy glacial lake, deltaic and eolian sediments. Slopes range from 0 to 8 percent. The A horizon is dark grayish brown loamy fine sand with weak fine granular structure. The A horizon extends from 0 to 10 inches. The B horizon is brown fine sand. The structure is weak coarse subangular blocky. The C horizon is grayish brown or brown fine sand extending 32 to 72 inches. The material is massive or single grain, or structure is weak platy.

#### Fluvaquents (Fu and Fx)

These are deep, level or nearly level, moderately well drained, low lime, sandy soils formed in glacial outwash. The available water capacity is low to moderate. Permeability is rapid.

#### Hudson Series (HuB, HuC, HuD, HuE, HvB, HvC, HvE, HwC3, and HwD3)

These are very deep, moderately well drained soils formed in clayey and silty lacustrine sediments. These soils are in convex lake plains, lacustrine capped uplands, and on lower valley side-slopes. Slopes can range from 0 to 60 percent. The A horizon is typically brown silt loam and silty clay loam, with granular structure, extending 5 to 12 inches deep. The E horizon, when present, consists of faintly mottled brown, very fine sandy loam or silt loam with blocky or platy structure. The B horizon generally is firm yellowish brown to brown silty clay with moderate or strong blocky structure and may have medium to very coarse prisms. Low and high-chroma redoximorphic features are present but may be faint or absent in the shallower portions. The C horizon is mixed grayish brown and light olive brown silty clay, with massive structure, or plate-like divisions.

## Kingsbury Series (KrA & KrB)

These are very deep, somewhat poorly drained soils formed in clayey glacio-marine or glaciolacustrine sediments. They are nearly level or gently sloping, ranging from 0 to 8 percent slope. The A horizon is typically very dark grayish brown silt loam, and texture can range from very fine sandy loam to clay. This horizon has granular or blocky structure. The E horizon generally is mixed brown and yellowish-brown silty clay but can be silt loam or very fine sandy loam, with blocky to platy structure. Redoximorphic features occur throughout. The B horizon typically consists of dark grayish brown clay, mixed with yellowish brown clay in the shallower portions. Typically, it has greater than 50 percent redoximorphic depletions on ped faces with concentrations in ped interiors. This horizon generally has blocky structure, within coarse or very coarse prisms. The C horizon generally has similar color to the deeper portions of the B horizon, although redoximorphic features generally have lower contrast. This horizon ranges from silty clay loam to clay in texture, and has massive structure, which, when disturbed, can part into aggregates resembling very fine blocky structure.

#### Madlin Series (Ma)

These are very deep, poorly drained soils formed in water-deposited materials. They occur on lake plains and depressions in the uplands. Slopes range from 0 to 3 percent. The A horizon is very dark gray silt loam with dry, moderate medium granular structure, extending 0 to 8 inches. The B horizon is composed of a dark grayish brown silty clay with strong to weak medium subangular blocky structure. The C horizon is a grayish brown stratified silt to clay with moderate medium platy structure.

#### Nassau Series (NAB, NaC, NrC, NrD, and NrE)

These are shallow, somewhat excessively drained soils formed in channery till derived from acid shale and slate. They are nearly level to very steep soils that overlie shale bedrock at depths of 10 to 20 inches. They are found on summits, shoulders, and backslopes of ridges and hills on glaciated uplands. Slopes range from 0 to 70 percent. The A horizon is dark brown channery silt loam with

dry, weak fine granular structure to a depth of 3 inches. The B horizon is composed of a yellowishbrown very channery silt loam 13-inches thick with weak fine subangular blocky structure. The R horizon is hard brown and greenish gray folded shale interbedded with red and green shale.

#### Nunda Series (NuB and NuC,)

These very deep and deep, moderately well drained soils formed in a silty mantle that overlie till derived from clayey shale. They are generally found on upland till plains. Slopes range from 0 to 35 percent. The A horizon is dark grayish brown silt loam with medium granular structure from 0 to 9 inches. The E horizon, where present, is grayish brown silt loam with weak or moderate, thin, or medium platy structure. The B horizon is brown silt loam with weak fine subangular blocky structure. The C horizon is gray channery silty clay loam. The structure is massive or has plate like divisions. The C horizon extends from 45 to 72 inches.

#### **Raynham Series (Ra)**

These are very deep and poorly drained soils formed in silty estuarine or glaciolacustrine deposits on glacial lake plains and marine terraces. Slopes range from 0 to 12 percent. The A horizon is dark grayish brown silt loam with moderate fine and medium granular structure, extending 0 to 6 inches. The B horizon is composed of an olive gray to olive brown silt loam with weak or moderate, very fine through medium granular or subangular blocky structure. The C horizon is an olive gray to olive silt loam with massive or plate-like divisions.

## Rhinebeck Series (RhA & RhB)

These are very deep, somewhat poorly drained soils formed in clayey lacustrine sediments. They occur on glacial lake plains and uplands mantled with lake sediments. Slopes range from 0 to 15 percent. The A horizon is very dark grayish brown silt loam with moderate medium granular structure to a depth of 9 inches. The E horizon, when present, is grayish brown silty clay loam with weak medium subangular blocky structure, extending from 9 to 14 inches. The B horizon is olive brown silty clay to silty clay loam with weak to strong prismatic or subangular blocky structure, extending to a depth of 32 inches. The C horizon is typically brown silty clay loam to varved silt and clay with massive or varved very coarse prismatic structure. The C horizon may extend to a depth of 72 inches.

#### Riverhead Series (RhA, RhB, RhC, and RhD)

These very deep, well drained soils formed in glacial outwash deposits derived primarily from granitic materials. These soils are found on beaches, valley trains, outwash plains and water-sorted moraines. Slopes range from 0 to 50 percent. The A horizon is brown with a texture of sandy loam. The structure is weak fine granular. The B horizon is yellowish brown with a fine sandy loam to sandy loam texture, becoming gravelly with depth. The structure is weak subangular blocky, or the horizon is massive. The C horizon is brown or very pale brown sand.

#### Shaker Series (Sh)

These are very deep, poorly drained soils formed in loamy over clayey sediments. They are nearly level to gently sloping soils occurring in low-lying positions on glaciolacustrine and marine terraces. Slopes range from 0 to8 percent. The O horizon where present is commonly black hemic material extending from 0 to 2 inches. The A horizon is very dark brown fine sandy loam with weak medium granular structure from depths of 2 to 6 inches. The B horizon is light brownish gray to brown sandy loam with weak medium subangular blocky structure. The C horizon is dark yellowish brown varved silt and clay with massive separating to weak plates along varved bedding planes extending from depths of 30 to 65 inches.

## **Stafford Series (St)**

These very deep, somewhat poorly drained soils formed in sandy glacio-lacustrine deposits. These nearly level soils are found on deltas and sand plains. Slopes range from 0 to 3 percent. The A horizon is very dark grayish brown loamy fine sand. The structure is granular. The B horizon is brown or grayish brown loamy fine sand. It has weak granular, subangular blocky, or platy structure or it is massive. The C horizon is light brownish gray or grayish brown fine sand to sand. It is massive or single grain.

#### **Tioga Series (Ta)**

These very deep, well drained soils formed in alluvium on higher positions in flood plains. Slopes range from 0 to 3 percent. The A horizon is dark grayish brown silt loam with medium granular structure from 0 to 8 inches. The B horizon is brown silt loam with weak fine subangular blocky structure. The C horizon is dark yellowish brown silt loam. The structure is massive with friable consistence and few fine roots. The C horizon extends from 36 to 50 inches.

#### Tunkhannock Series (TvB)

These very deep, well to somewhat excessively drained soils formed in water-sorted glacial material derived from reddish sandstone, siltstone, and shale. Slopes range from 0 to 60 percent. The A horizon is brown gravelly loam with weak granular structure from 0 to 8 inches. The B horizon is brown to reddish brown gravely to extremely gravelly sandy loam with very weak coarse to medium subangular blocky structure. The C horizon is reddish brown extremely gravelly loamy sand and stratified loamy fine sand. The C horizon extends from 30 to 72 inches.

#### Udipsamments (Ud & Uf)

These are very deep, nearly level to undulating, moderately well drained to excessively drained soils formed in dredged materials. Slopes range from 0 to 8 percent. Typically, the texture of the material is loamy sand or sand, with layers of silty material or gravel at varying depths. Subsurface layers are weakly stratified due to occasional new deposits on the surface.

#### Udorthents (Ur, Ug, Uh, and Uk)

These are very deep, nearly level to gently sloping areas of well drained loamy soils that are a result of man-made cuts and fills in loamy upland soils. Slopes range from 0 to 8 percent. Typically, the surface layer is dark brown silt loam extending to 5 inches. Layers below the surface are brown and yellowish-brown silt loam containing up to 80 percent rock fragments to a depth of 72 inches or more.

## Urban Land (Ut)

Urban Land consists of nearly level to strongly sloping areas where asphalt, concrete, buildings, or other impervious materials cover more than 85 percent of the surface. Slopes range from 0 to 15 percent. This map unit includes very few areas of soil material, and those areas which are used mainly as lawns or landscaping have been disturbed by adjacent building activities.

#### Unadilla Series (UnD)

These are deep and very deep, well drained soils formed in silty, lacustrine sediments or old alluvial deposits. They typically are found occurring on valley terraces and lacustrine plains. Slopes range from 0 to 50 percent. The A horizon is brown silt loam with moderate fine and very fine granular structure extending from 0 to 8 inches. The B horizon is yellowish brown silt loam with moderate medium subangular blocky structure. The C horizon is dark grayish brown stratified

very gravelly sand. The C horizon has massive, single grain, weak to moderate plate-like divisions extending from 42 to 65 inches.

#### Valois Series (VdB & VdD)

These are very deep, well drained soils on nearly level to steep lateral moraines along lower valley sides. These soils formed in till dominated by siltstone, sandstone, or shale. The slopes range from 0 to 60 percent. The A horizon is brown gravelly loam with weak medium granular structure extending from 0 to 7 inches. The B horizon is brown silt loam/ gravelly silt loam with weak fine granular structure and weak medium subangular blocky structure. The C horizon is dark grayish brown very gravelly fine sandy loam and gravelly clay loam. The C horizon has 40 percent rock fragments and extends from 47 to 72 inches.

#### Wakeland Series (Wa)

These very deep, somewhat poorly drained soils formed in silty alluvium on floodplains and floodplain steps. Slopes range from 0 to 2 percent. The A horizon is dark grayish brown silt loam. The C horizon is grayish brown silt loam with yellowish brown redoximorphic features. The structure is granular.

## Wayland Series (Wa)

These very deep, poorly drained, and very poorly drained, nearly level soils formed in recent alluvium. These soils are found in low areas or slack water areas on flood plains. Slope ranges from 0 to 3 percent. Typically, the A horizon is very dark brown silty loam with a fine to coarse granular or subangular blocky structure. The B horizon is grayish brown silt loam that has weak fine and medium subangular blocky structure. The C horizon is gray silt loam and is massive.

## 5.0 SUMMARY

Wetlands identified along the Project Corridor include shallow emergent marshes, deep emergent marshes, common reed/purple loosestrife marshes, scrub-shrub wetlands, and forested wetlands such as red maple-hardwood swamps. Small ponds, artificial ditches, and watercourses, including small intermittent tributaries to the Hudson River, occur within the Project Corridor.

Land use in the Project Corridor is diverse, ranging from rural, agricultural, and forested areas to more developed hamlet residential landscapes. In general, because the Project Corridor is routed

along existing railroad corridors, many wetlands within the Project Corridor are characterized by previous anthropogenic disturbance and/or the presence of invasive plant species. The Project Corridor is located along the edge between the disturbed railroad ROW and more natural vegetated wetland communities that are present adjacent to the railroad rights-of-way. The wetland boundaries in the Project Corridor are most often defined by the edge of the soil fill for the railroad embankments.

Confirmation of the wetland boundaries are the responsibility of the involved regulatory agencies with jurisdiction over wetlands and waterbodies within this Phase of the overall project. As previously noted, wetlands within Segment 10 - Package 6 are regulated by USACE (Section 10/404) and NYSDEC (Article 24). Streams and other waterbodies are regulated by USACE (Section 10/404) and NYSDEC (Article 15). Based on review of the NYSDEC wetland mapping, 20 delineated wetlands areas are identified as regulated under Article 24. These wetlands correspond to 3 mapped wetlands regulated by NYSDEC (HN-101, HN-118 & HN-108). It is anticipated that USACE will take jurisdiction over all the wetlands delineated within the Project Corridor. Final jurisdictional determinations will be made by the respective agencies.

## 6.0 REFERENCES

- Browne, S. et. al. 1995. New York State Freshwater Wetlands Delineation Manual. New York State Department of Environmental Conservation, Division of Fish and Wildlife, Bureau of Habitat, Albany, NY.
- Cowardin, L. M., V. Carter, F. C. Golet, E. T. LaRoe, 1979. *Classification of wetlands and deepwater habitats of the United States*. U. S. Department of the Interior, Fish and Wildlife Service, Washington, D.C.
- Edinger, G. J., D. J. Evans, S. Gebauer, T. G. Howard, D. M. Hunt, and A. M. Olivero (editors). 2014. *Ecological* Communities of New York State. Second Edition. A revised and expanded edition of Carol Reshke's *Ecological Communities of New York State*. New York Natural Heritage Program, New York State Department of Environmental Conservation, Albany, NY.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

- Natural Resources Conservation Service (NRCS), United States Department of Agriculture (USDA). Web Soil Survey. Map Unit Descriptions. Accessed online February 28, 2022: https://websoilsurvey.nrcs.usda.gov/app/.
- United States Army Corps of Engineers. 1987 Wetland Delineation Manual. Technical Report Y-87-1. Experimental Laboratory, Vicksburg, MS.
- United States Army Corps of Engineers. 2012. *Regional Supplement to the Corps of Engineers Wetland Manual: Northcentral and Northeast Region (Version 2.0).* ERDC/EL TR-12-1. Vicksburg, MS: U.S. Army Engineer Research and Development Center.

# ATTACHMENT 1 WETLAND DETERMINATION DATA SHEETS AND WETLAND PHOTOGRAPHS

U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE City/Co	unty: Selkirk/Albany County	Sampling Date: 10.5.22
Applicant/Owner: TDI	State: NY	Sampling Point: Wet P5-Y-13
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression Local relief (con	ncave, convex, none): Concave	Slope %:
Subregion (LRR or MLRA):         LRR R         Lat:         42 32' 00"N	Long:73 48' 28"W	Datum: WGS84
Soil Map Unit Name: EnA - Elmridge fine sandy loam, 0 to 3 percent slopes	NWI classification:	PFO1
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" pres	ent? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers ir	Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID: Wetland P5-Y near flag P5-Y-13
Remarks: (Explain alternative procedures Red maple hardwood swamp.	nere or in a separate report.)	

#### HYDROLOGY

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 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)	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 x	No Depth (inches): 0 Wetland	d Hydrology Present? Yes X No		
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspections), if	available:		
Remarks:				

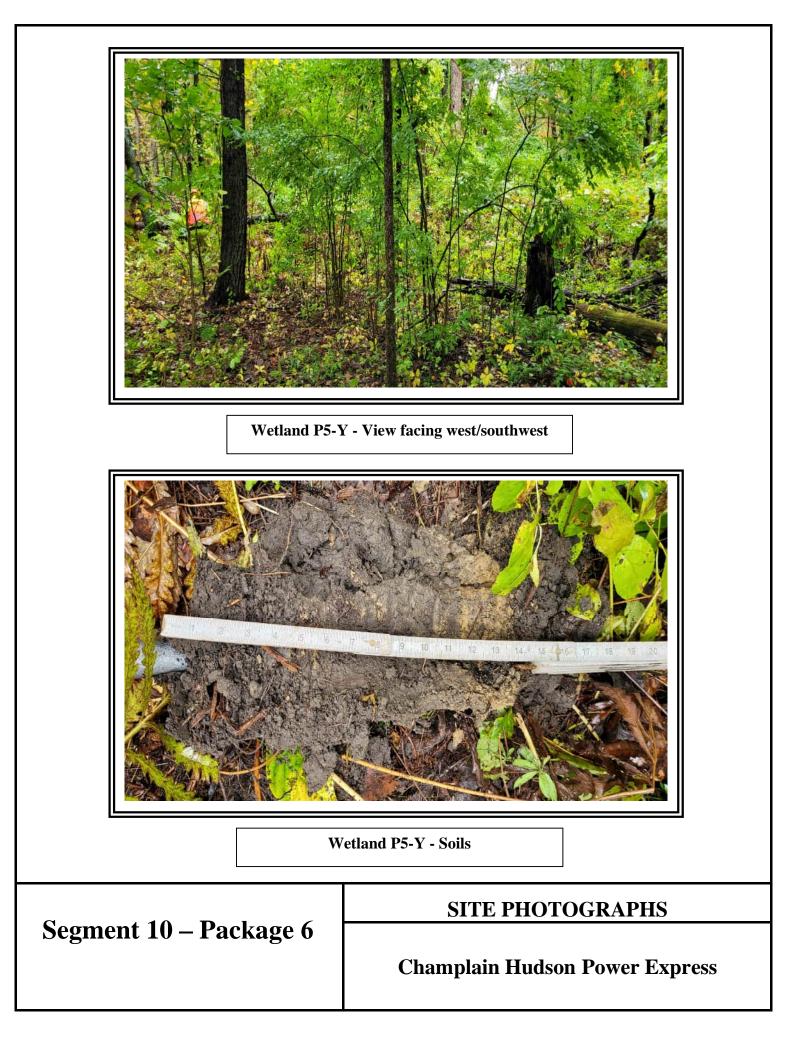
#### **VEGETATION** – Use scientific names of plants.

Sampling Point: Wet P5-Y-13

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Ulmus americana	35	Yes	FACW	Number of Dominant Species
2. Acer rubrum	25	Yes	FAC	Number of Dominant Species           That Are OBL, FACW, or FAC:         9         (A
3. Pinus strobus	10	No	FACU	Total Number of Dominant
н				Species Across All Strata: 12 (B
5.				Percent of Dominant Species
5.	_			That Are OBL, FACW, or FAC: <u>75.0%</u> (A
7				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species5 x 1 =5
Lindera benzoin	15	Yes	FACW	FACW species 115 x 2 = 230
2. Ilex verticillata	15	Yes	FACW	FAC species 55 x 3 = 165
8. Rosa multiflora	10	Yes	FACU	FACU species 45 x 4 = 180
4. Quercus rubra	5	No	FACU	UPL species 0 x 5 = 0
5.				Column Totals: 220 (A) 580
).				Prevalence Index = B/A = 2.64
·.				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')				X 2 - Dominance Test is >50%
. Onoclea sensibilis	25	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^1$
2. Impatiens capensis	15	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide suppor
3. Matteuccia struthiopteris	10	Yes	FAC	data in Remarks or on a separate sheet)
. Toxicodendron radicans	10	Yes	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Celastrus orbiculatus	10	Yes	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu
6. Osmunda spectabilis	5	No	OBL	be present, unless disturbed or problematic.
. Geum aleppicum	5	No	FAC	Definitions of Vegetation Strata:
8. Rosa multiflora	5	No	FACU	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in
). Fraxinus pennsylvanica	5	No	FACW	diameter at breast height (DBH), regardless of heig
0. Lindera benzoin	5	No	FACW	Sapling/shrub – Woody plants less than 3 in. DBI
1. Parthenocissus quinquefolia			FACU	and greater than or equal to 3.28 ft (1 m) tall.
2.				
	<u> </u>	=Total Cover		Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30'	)			
1. Celastrus orbiculatus	′ 5	Yes	FACU	Woody vines – All woody vines greater than 3.28 theight.
2. Toxicodendron radicans	5	Yes	FAC	
3.				Hydrophytic
4.				Vegetation Present? Yes X No
	 10	=Total Cover		
Remarks: (Include photo numbers here or on a s				

#### SOIL

Profile Desc	ription: (Describe	o the de	pth needed to docu	ument t	he indica	ator or c	onfirm 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	2.5Y 2.5/1	85	10YR 4/3	5	<u> </u>		Loamy/Clayey	Distinct redox concentrations			
			10YR 5/6	10	c			Prominent redox concentrations			
10-15	2.5Y 4/1	60	10YR 2/1	10	C		Sandy	Distinct redox concentrations			
			10YR 4/3	10				Distinct redox concentrations			
			10YR 4/6	20	С	m		Prominent redox concentrations			
15-18	10YR 2/1	95	10YR 5/3	5	c	 m	Sandy	Distinct redox concentrations			
							·				
1											
	oncentration, D=Depl	etion, RN	1=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		L=Pore Lining, M=Matrix.			
Hydric Soil I				07)				or Problematic Hydric Soils <sup>3</sup> :			
Histosol			Dark Surface (					uck (A10) ( <b>LRR K, L, MLRA 149B</b> )			
	ipedon (A2)		Polyvalue Belo		ce (58) (	LRR R,		rairie Redox (A16) ( <b>LRR K, L, R</b> )			
Black His			MLRA 149B	,				ucky Peat or Peat (S3) (LRR K, L, R)			
	n Sulfide (A4)		Thin Dark Surf					e Below Surface (S8) ( <b>LRR K, L</b> )			
	Layers (A5)		High Chroma S				Thin Dai	rk Surface (S9) ( <b>LRR K, L</b> )			
x Depleted	Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b> I	R K, L)	Iron-Mar	nganese Masses (F12) ( <b>LRR K, L, R</b> )			
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )			
Mesic Sp	odic (A17)		Depleted Matrix (F3)				Red Par	ent Material (F21) (outside MLRA 145)			
(MLR	A 144A, 145, 149B)		X Redox Dark Surface (F6)				Very Sh	allow Dark Surface (F22)			
Sandy M	ucky Mineral (S1)		Depleted Dark Surface (F7)				Other (E	xplain in Remarks)			
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F	8)						
Sandy R	edox (S5)		Marl (F10) (LR	R K, L)			<sup>3</sup> Indicato	ors of hydrophytic vegetation and			
Stripped	Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland hydrology must be present,				
							unless	s disturbed or problematic.			
Restrictive L	ayer (if observed):										
Type: -											
Depth (ir	iches):						Hydric Soil Prese	nt? Yes <u>X</u> No			
Remarks:											
1											



U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE City	/County: Bethlehem/Albany County S	ampling Date: 10.5.22
Applicant/Owner: TDI	State: NY	Sampling Point: Upl P5-Y-13
Investigator(s): C. Scrivner & J. Greaves	Section, Township, Range:	
Landform (hillside, terrace, etc.): Hillslope Local relief	(concave, convex, none): <u>Convex</u>	Slope %: 5
Subregion (LRR or MLRA):         LRR R         Lat:         42 32' 00"N	Long:73 48' 28"W	Datum: WGS84
Soil Map Unit Name: EnA - Elmridge fine sandy loam, 0 to 3 percent slopes	NWI classification:	
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes <u>x</u> No (If no, exp	olain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly disturbed?	Are "Normal Circumstances" present	? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally problematic?	(If needed, explain any answers in Re	emarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         No         X           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID: Upland adjacent to Wetland P5-Y
Remarks: (Explain alternative procedure Deciduous forest.	es here or in a separate report.)	

#### HYDROLOGY

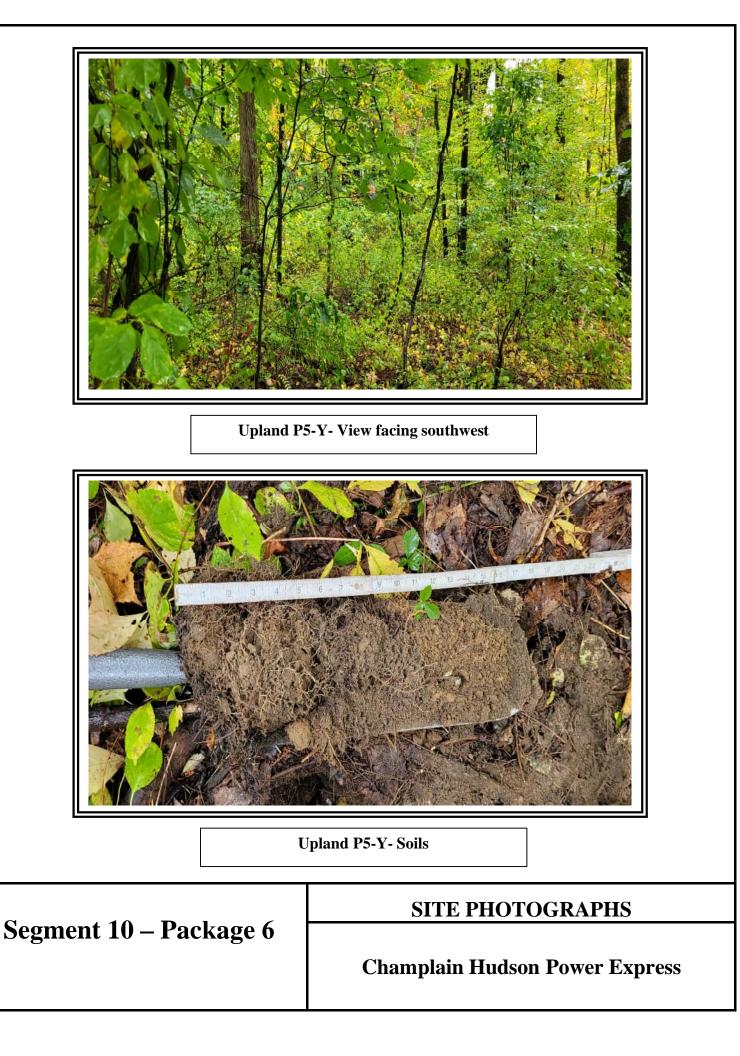
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Roots	s (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 (0	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	8)	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, mor	nitoring well, aerial photos, previous inspecti	ons), if available:
Remarks:		

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

Sampling Point: Upl P5-Y-13

Tree Stratum (Plot size:	30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test	worksheet:			
1. Acer rubrum		45	Yes	FAC					
2. Populus deltoides		15	No	FAC	Number of Domina That Are OBL, FA		:	2	(A)
Quercus rubra		5	No	FACU					_ ` ´
Liriodendron tulipifera		5	No	FACU	Total Number of D Species Across Al			7	(B)
5. Quercus alba		5	No	FACU					<b>_</b> `´
6. Acer platanoides		5	No	UPL	Percent of Domina That Are OBL, FA		:	28.6%	(A/I
· · ·					Prevalence Index				<u>-`</u>
		80	=Total Cover		Total % Cove			ultiply by:	
Sapling/Shrub Stratum (Plot	- size: 15' )		-		OBL species	0	x 1 =	0	
. Quercus rubra	······	20	Yes	FACU	FACW species	5	x 2 =	10	
2. Ostrya virginiana		15	Yes	FACU	FAC species	63	x 3 =	189	
3. Quercus alba		10	No	FACU	FACU species	166	x 4 =	664	
		10	No	FACU	UPL species	100	x 5 =	50	
						244		913	—,
		5	No	FACW	Column Totals:		(A)		(
	·		·			Index = B/A	-	3.74	
					Hydrophytic Vege				
	-	60	=Total Cover		1 - Rapid Test			egetation	
lerb Stratum (Plot size:	)				2 - Dominance				
. Celastrus orbiculatus	60	Yes	FACU	<ul> <li>3 - Prevalence Index is ≤3.0<sup>1</sup></li> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supportir</li> </ul>					
. Rosa multiflora		15	No	FACU		-		-	
B. Parthenocissus quinquef	olia -	5	No	FACU		narks or on a	sepa	ale sneel)	
Quercus rubra		5	No	FACU	Problematic H	ydrophytic V	egeta	ion <sup>1</sup> (Expla	ain)
5. Quercus alba		5	No	FACU	<sup>1</sup> Indicators of hydri	ic soil and w	etland	hydrology	mus
6. Acer platanoides		5	No	UPL	be present, unless				
, 					Definitions of Veg	jetation Stra	ata:		
3					Tree – Woody plan	nts 3 in. (7.6	cm) o	r more in	
).	<u> </u>				diameter at breast				heigh
0					Sapling/shrub – \	Noody plant	ہ اورو	than 3 in T	лвн
1.					and greater than o				
2.					Herb – All herbace		a duù u	lanta rag	ordio
		95	=Total Cover		of size, and woody	•			arue
Noody Vine Stratum (Plot	- size: 30' )		-						00 6
1. Celastrus orbiculatus	,	3	Yes	FACU	Woody vines – Al height.	I woody vine	s grea	ter than 3.	28 ft
2. Parthenocissus quinquef		3	Yes	FACU					
3. Toxicodendron radicans		3	Yes	FAC	Hydrophytic				
1.			100		Vegetation Present?	Vos	No	x	
T			-Total Cause			Yes	INO	<u> </u>	
		9	=Total Cover						

(inches)         Color (moist)         %         Type'         Loc'         Texture         Remarks           0-9         10YR 3/2         100	(inches)       Color (moist)       %       Color (moist)       %       Type <sup>1</sup> Loc <sup>2</sup> Texture       Remarks         0-9       10YR 3/2       100			to the de				ator or c	onfirm the absence of i	ndicators.)	
0-9         10YR 3/2         100         Loamy/Clayey           9-18         10YR 4/3         70         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentration           9-18         10YR 4/3         70         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentration           9-18         10YR 4/3         70         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentration           9         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentration           9         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentration           9         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentration           9         10	0-9         10YR 3/2         100         Loamy/Clayey           9-18         10YR 4/3         70         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentrations           9-18         10YR 4/3         70         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentrations           9-18         10YR 4/3         70         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentrations           9-19         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentrations           9-10         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentrations           9-10         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentrations           9-10         10         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentrations           9-10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10         10	Depth (inchoo)	Matrix						Texture	Demo	
9-18       10YR 4/3       70       10YR 5/3       30       c       m       Loamy/Clayey       Faint redox concentration         9-18       10YR 4/3       70       10YR 5/3       30       c       m       Loamy/Clayey       Faint redox concentration         9-18       0       0       0       0       0       0       0       0         9-18       0	9-18         10YR 4/3         70         10YR 5/3         30         c         m         Loamy/Clayey         Faint redox concentrations	(incnes)		<u>%</u>	Color (moist)	<u>%</u>	Туре	Loc		Rema	arks
Image:	Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Indicators:       Indicators (A1)       Image: Sport (A2)       Image: Sport (A1)         Indicators:       Image: Sport (A2)       Image: Sport (A2)       Image: Sport (A2)         Indicators:       Image: Sport (A2)       Image: Sport (A2)       Image: Sport (A2)         Indicators:       Image: Sport (A2)       Image: Sport (A2)       Image: Sport (A2)         Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Stratified Layers (A5)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)       Image: Sport (A1)         Image: Sport (A1)       Image: Sport (A1)       Image:	0-9	10YR 3/2	100					Loamy/Clayey		
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3 Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X	9-18	10YR 4/3	70	10YR 5/3	30	с	m	Loamy/Clayey	Faint redox co	ncentrations
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Poepth (inches):       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Poepth (inches):       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X			·							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Poepth (inches):       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Poepth (inches):       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Poepth (inches):       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Poepth (inches):       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X		·	·							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X			·							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X		·	·							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Poepth (inches):       Yes No	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X		·	·							
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149B)         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Polpt (inches):       No _X										
Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 144         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, F         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K,         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 144, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Histosol (A1)       Dark Surface (S7)       2 cm Muck (A10) (LRR K, L, MLRA 149B)         Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R,       Coast Prairie Redox (A16) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F19)         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 143         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Mari (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	I=Reduced Matrix, I	MS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=	Pore Lining, M=M	atrix.
Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R, Black Histic (A3)       Coast Prairie Redox (A16) (LRR K, L, F, 5 cm Mucky Peat or Peat (S3) (LRR K, Polyvalue Below Surface (S9) (LRR R, MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, Depleted Below Dark Surface (A11)       Polyvalue Below Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A12)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (F2) (IRR K, L)         Mesic Spodic (A17)       Depleted Matrix (F3)       Redox Dark Surface (F6)         Murka 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Histic Epipedon (A2)       Polyvalue Below Surface (S8) (LRR R, Below Surface (S3) (LRR K, L, R)         Black Histic (A3)       MLRA 149B)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)         Mesic Spodic (A17)       Depleted Matrix (F3)         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Restrictive Layer (if observed):       Type:         Type:	Hydric Soil	Indicators:						Indicators for	Problematic Hyd	ric Soils <sup>3</sup> :
Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, K, Polyvalue Below Surface (S8) (LRR K, L)         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA Metrial (F21) (outside ML Very Shallow Dark Surface (F22) (outside ML Very Shallow Dark Surface (F22) Other (Explain in Remarks)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3 <sup>1</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Black Histic (A3)       MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, L, R         Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L, F         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:										
Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Hydrogen Sulfide (A4)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       Polyvalue Below Surface (S8) (LRR K, L)         Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F         Mesic Spodic (A17)       Depleted Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:						ce (S8) (	LRR R,			
Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A12)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside ML         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Stratified Layers (A5)       High Chroma Sands (S11) (LRR K, L)       Thin Dark Surface (S9) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 149)         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:					,					
Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside ML         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Depleted Below Dark Surface (A11)       Loamy Mucky Mineral (F1) (LRR K, L)       Iron-Manganese Masses (F12) (LRR K, L, F         Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 149         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:										
Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside ML         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Thick Dark Surface (A12)       Loamy Gleyed Matrix (F2)       Piedmont Floodplain Soils (F19) (MLRA 149         Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 149         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:			o (A11)							
Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside ML         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:          Depth (inches):        Hydric Soil Present?       Yes No	Mesic Spodic (A17)       Depleted Matrix (F3)       Red Parent Material (F21) (outside MLRA 1         (MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:			e (ATT)				K N, L)			
(MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       Other (Explain in Remarks)         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	(MLRA 144A, 145, 149B)       Redox Dark Surface (F6)       Very Shallow Dark Surface (F22)         Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:						12)				
Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation an         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation an         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes No	Sandy Mucky Mineral (S1)       Depleted Dark Surface (F7)       Other (Explain in Remarks)         Sandy Gleyed Matrix (S4)       Redox Depressions (F8)       3Indicators of hydrophytic vegetation and         Sandy Redox (S5)       Marl (F10) (LRR K, L)       3Indicators of hydrophytic vegetation and         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)       wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:						6)				
Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:         Depth (inches):	Sandy Gleyed Matrix (S4)       Redox Depressions (F8)         Sandy Redox (S5)       Marl (F10) (LRR K, L)         Stripped Matrix (S6)       Red Parent Material (F21) (MLRA 145)         Restrictive Layer (if observed):       unless disturbed or problematic.         Type:       Hydric Soil Present?         Depth (inches):       No	-									/
Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation an wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes       No	Sandy Redox (S5)       Marl (F10) (LRR K, L) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:       Hydric Soil Present?       Yes No X								、	,	
Image: starting of the system of the syst	unless disturbed or problematic.           Restrictive Layer (if observed):	Sandy F	Redox (S5)		Marl (F10) ( <b>LF</b>	RR K, L)			<sup>3</sup> Indicators	of hydrophytic veg	getation and
Restrictive Layer (if observed):	Restrictive Layer (if observed):	Stripped	l Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)	wetland	hydrology must be	present,
Type:	Type:								unless d	isturbed or probler	matic.
Depth (inches): No	Depth (inches):          No X	Restrictive	Layer (if observed):								
		Туре:									
		Depth (i	nches):						Hydric Soil Present?	Yes	<u>No X</u>
Remarks:									1		
		1									



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

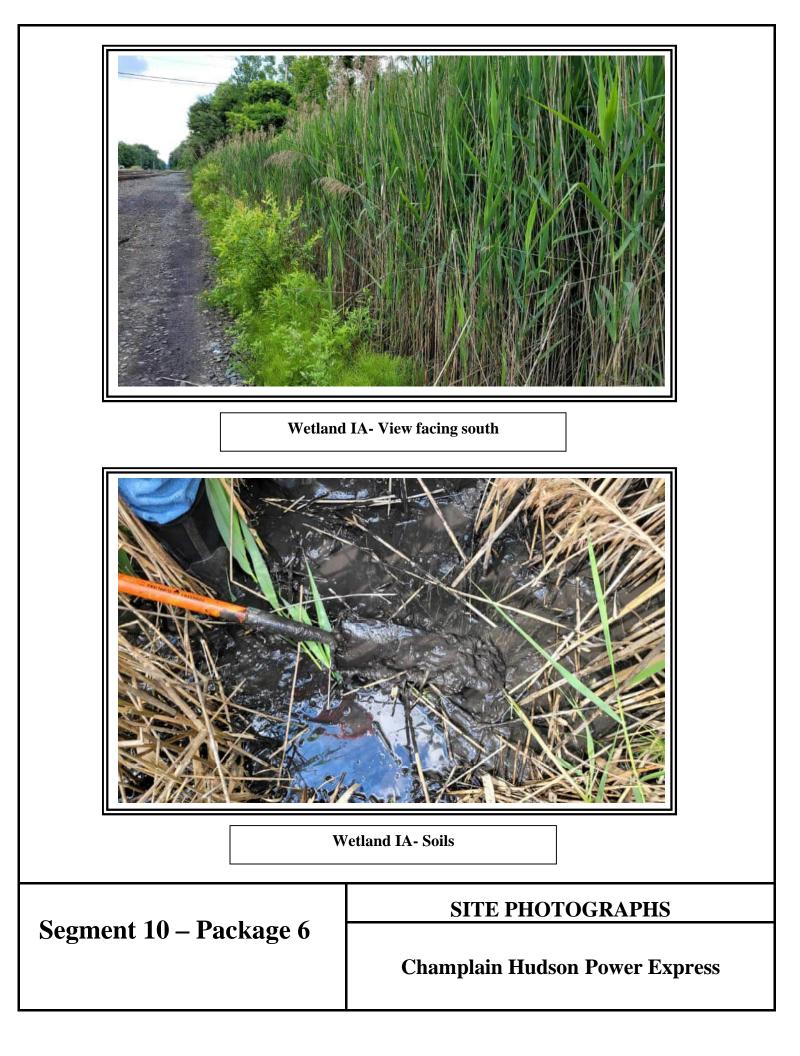
Project/Site: CHPE Package 6	City/County: <u>Selkirk</u>	Sampling Date: <u>11/16/21</u>
Applicant/Owner: CHA	State: N	IY Sampling Point: IA-2
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:	
Landform (hillside, terrace, etc.):	relief (concave, convex, none):	Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.53657	Long:73.80861	Datum: NAD83
Soil Map Unit Name:	NWI classificat	ion: <u>PEM</u>
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If	no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>y</u> , or Hydrology <u>N</u> significantly distur	bed? Are "Normal Circumstances" p	present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> naturally problema	atic? (If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area	

Hydropnytic Vegetation Present? Hydric Soil Present?	Yes <u>X</u> NO YesNO <u>X</u>	within a Wetland?	a Yes No
Wetland Hydrology Present?	Yes X No	lf yes, optional Wetla	and Site ID:
Remarks: (Explain alternative procedur Wetland IA, drainage at ballast	es here or in a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		5	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is re	equired; check all that apply)		Surface Soil Cracks (B6)
X 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 Odo		Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidized Rhizosphere		Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	X Presence of Reduced		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction		Geomorphic Position (D2)
Iron Deposits (B5)	Thin Muck Surface (C	· -	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery		arks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface			FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes X		·	
Water Table Present? Yes			
Saturation Present? Yes	No x Depth (inches	s): Wetland	Hydrology Present? Yes X No
(includes capillary fringe)			- 1 - 6 1
Describe Recorded Data (stream gauge	, monitoring well, aenai photos, p	previous inspections), if av	alladie.
Remarks:			

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

VEGETATION – Use scientific names of pla	ants.			Sampling Point:IA-2
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: 1 (A)
3.				Total Number of Dominant
4.		<u> </u>		Species Across All Strata: 1 (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 )				OBL species 0 x 1 = 0
1				FACW species 80 x 2 = 160
2.				FAC species 0 x 3 = 0
3.				FACU species 0 x 4 = 0
4.				UPL species $0 \times 5 = 0$
5.				Column Totals: 80 (A) 160 (B)
6.				Prevalence Index = B/A = 2.00
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Phragmites australis	80	Yes	FACW	X 3 - Prevalence Index is $≤3.0^1$
2				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 7				be present, unless disturbed or problematic. 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				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
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> ) 1.				Woody vines – All woody vines greater than 3.28 ft in height.
				negn.
3				Hydrophytic
				Vegetation Present? Yes x No
4		=Total Cover		Present? Yes <u>x</u> No
Remarks: (Include photo numbers here or on a sepa	arate sheet.)			

		to the de				or or co	onfirm the absence of in	dicators.)	
		0/			4	$1 co^2$	Toxture	Dom	orko
Depth (inches)	ription: (Describe t Matrix Color (moist)	<u>%</u>	Redc           Color (moist)	x Featu % 	Type1	Loc <sup>2</sup> .	Texture	Pore Lining, M=N	
Hydric Soil I		011011,11	in rioudood matrix,	ne ma				Problematic Hyd	
Black His Hydroger Stratified Depleted Thick Dar Sandy Mi Sandy Gl Sandy Re Stripped Dark Sur	pedon (A2) tic (A3) a Sulfide (A4) Layers (A5) Below Dark Surface k Surface (A12) ucky Mineral (S1) eyed Matrix (S4) edox (S5) Matrix (S6) face (S7)		Polyvalue Bela MLRA 149E Thin Dark Sur High Chroma Loamy Mucky Loamy Gleyec Depleted Matr Redox Dark S Depleted Dark Redox Depres Marl (F10) (LR wetland hydrology m	3) face (S9 Sands (S Mineral I Matrix ( Matrix (F3) urface (F Surface Sions (F R K, L)	) ( <b>LRR R, I</b> 511) ( <b>LRR</b> (F1) ( <b>LRR</b> (F2) =6) ∋ (F7) 8)	MLRA 1 K, L) K, L)	49B) Coast Prairi 5 cm Mucky Polyvalue B Thin Dark S Iron-Manga Piedmont F Mesic Spod Red Parent Very Shallo	elow Surface (S surface (S9) ( <b>LRI</b> nese Masses (F loodplain Soils (F	LRR K, L, R) 3) (LRR K, L, R) 8) (LRR K, L) R K, L) 12) (LRR K, L, R) 519) (MLRA 149B) 144A, 145, 149B)
Restrictive L	ayer (if observed):								
Туре:	Grav	el							
Depth (in	ches):	0					Hydric Soil Present?	Yes	No
Remarks:									



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

Project/Site: CHPE Package 6	City/County: <u>Selkirk</u>	Sampling Date: <u>11/19/21</u>
Applicant/Owner: <u><sub>CHA</sub></u>	State: <u>NY</u>	Sampling Point: <u>_IA-2</u>
Investigator(s): <u>Nick Dominic, Justn Williams</u>	Section, Township, Range: <u>Selkirk</u>	
Landform (hillslope, terrace, etc.):	Local relief (concave, convex, none):	Slope (%):
Subregion (LRR or MLRA): <u>LRR R</u> Lat: <u>42.52884</u>	Long: <u>-73.80475</u>	Datum: NAD83
Soil Map Unit Name:	NWI classi	ification:
Are climatic / hydrologic conditions on the site typical for this time o	of year? Yes 🛛 No 🔲 (If no, explain in	Remarks.)
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> significa	ntly disturbed? Are "Normal Circumstances	" present? Yes 🔀 No 🗌
Are Vegetation <u>NO</u> , Soil <u>NO</u> , or Hydrology <u>NO</u> naturally	/ problematic? (If needed, explain any answ	wers in Remarks.)

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

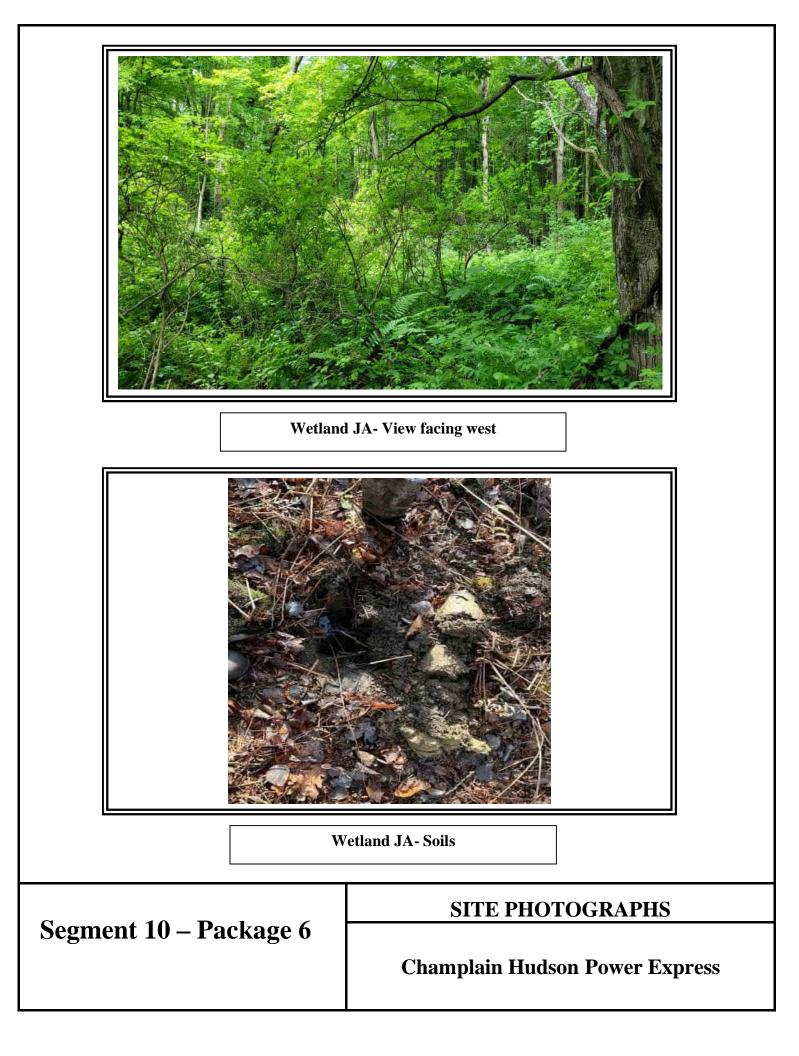
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes No Yes No Yes No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu Wetland JA	ures here or in a separate report.)	
Welland JA		
HYDROLOGY		

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) Water-Stained Leaves (B9)	Drainage Patterns (B10)
High Water Table (A2)	☐ Moss Trim Lines (B16)
Saturation (A3)	Dry-Season Water Table (C2)
Water Marks (B1)	Crayfish Burrows (C8)
Sediment Deposits (B2) 🛛 Oxidized Rhizospheres on Living I	Roots (C3) 🔲 Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	bils (C6) 🔲 Geomorphic Position (D2)
Iron Deposits (B5)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes 🔲 No 🔀 Depth (inches):	
Water Table Present? Yes <u>X</u> No <u>D</u> Depth (inches): 12	
Saturation Present? Yes X No Depth (inches): 8	Wetland Hydrology Present? Yes 🗵 No 🗌
Saturation Present? Yes X No Depth (inches): 8 (includes capillary fringe)	
Saturation Present? Yes X No Depth (inches): 8	
Saturation Present? Yes X No Depth (inches): 8 (includes capillary fringe)	
Saturation Present? Yes X No Depth (inches): 8 (includes capillary fringe)	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	
Saturation Present? Yes No Depth (inches): 8 (includes capillary fringe) Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	

Sampling Point: JA-2

Tree Stratum (Plot size: <u>30</u> )	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
1. <u>Acer rubrum</u> (1. 10. 10. 10. 10. 10. 10. 10. 10. 10. 1			Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. Prunus serotina			That Are OBL, FACW, or FAC: <u>4</u> (A)
			Total Number of Dominant Species Across All Strata: 6 (B)
3			
4			Percent of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B)
5		<u> </u>	
6		<u> </u>	Prevalence Index worksheet:
7		<u> </u>	Total % Cover of: Multiply by:
		= Total Cover	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15 )			FACW species x 2 =
1. <u>Cornus sericea</u>	20	YES <b>FACW</b>	FAC species x 3 =
2. Lonicera spp.			FACU species x 4 =
3			UPL species x 5 =
4			Column Totals: (A) (B)
			Prevalence Index = B/A =
5			Hydrophytic Vogetation Indicators
6			Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation
7		<u> </u>	$\boxtimes$ 2 - Dominance Test is >50%
		= Total Cover	$\square$ 3 - Prevalence Index is $\leq 3.0^1$
Herb Stratum (Plot size: <u>5</u> )			$\square$ 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Osmunda spp.	60	YES FACW	data in Remarks or on a separate sheet)
2. <u>Epilobium spp</u>	20	YES VOBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
3			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4			be present, unless disturbed or problematic.
5			Definitions of Vegetation Strata:
6			<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter
			at breast height (DBH), regardless of height.
7			Sapling/shrub – Woody plants less than 3 in. DBH
8			and greater than or equal to 3.28 ft (1 m) tall.
9			<b>Herb</b> – All herbaccous (non-woody) plants, regardless of
10			size, and woody plants less than 3.28 ft tall.
11		<u> </u>	<b>Woody vines</b> – All woody vines greater than 3.28 ft in
12		<u> </u>	height.
	100	= Total Cover	
Woody Vine Stratum (Plot size: 30))			
1		<b>_</b>	
2.			Hydrophytic
3			Vegetation Present? Yes 🗵 No 🗌
4		- Total Cover	
Remarks: (Include photo numbers here or on a separate	shoot )	= Total Cover	
	Sileet.)		

Profile Des	cription: (Describe	to the dep	oth needed to docu	ment the i	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			x Feature	<u>s</u>	-		
<u>(inches)</u>	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-16	<u>10yr/4/2</u>	75	<u>10yr/5/6</u>	25			SaL	Prominent
		·			<u> </u>			
					<u> </u>	<u>-</u>		
		·			<u>-</u>			
		·						
		·			- -	<u> </u>		
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion RM	=Reduced Matrix M	S=Masker	Sand Gr	ains	<sup>2</sup> Location	PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :
Black H Hydroge Stratifie Deplete Thick D Sandy N Sandy G Sandy F Stripped Dark Su	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) d Matrix (S6) urface (S7) ( <b>LRR R, M</b>	ILRA 149		) ace (S9) ( <b>I</b> Matrix (F2 < (F3) rface (F6) Surface (F6) sions (F8)	<b>_RR R, M</b> 1) ( <b>LRR K</b> ))	LRA 149B) , L)	Coast 5 cm M Dark S Polyva Thin D Iron-M Piedm Mesic Red Pa Very S	Muck (A10) (LRR K, L, MLRA 149B) Prairie Redox (A16) (LRR K, L, R) Mucky Peat or Peat (S3) (LRR K, L, R) Surface (S7) (LRR K, L, M) Ilue Below Surface (S8) (LRR K, L) ark Surface (S9) (LRR K, L) anganese Masses (F12) (LRR K, L, R) ont Floodplain Soils (F19) (MLRA 149B) Spodic (TA6) (MLRA 144A, 145, 149B) arent Material (F21) hallow Dark Surface (TF12) (Explain in Remarks)
Type: Depth (in	Layer (if observed):						Hydric Soil	Present? Yes <u>X</u> No
Remarks:								



Project/Site: CHPE	Package	6		City/County: Selkirk	ζ.		Sampling Date:	11/18/2021
Applicant/Owner:	CHA				State:	NY	Sampling Poin	t: IA-109 JA-4 Upland
Investigator(s): Nick	Dominic/	Justin Williams		Section, Tov	wnship, Range:			
Landform (hillside, ter	race, etc.	):	Local	relief (concave, conve	x, none):		Slop	e %:
Subregion (LRR or M	LRA): <u>L</u>	RR R, MLRA 144B	_at: <u>42.52934</u>	Long:	-73.80407		Datum:	NAD83
Soil Map Unit Name:					NWI class	ification:	Upland	
Are climatic / hydrolog	gic condit	ions on the site typical	for this time of year?	Yes X	No	(lf no, e	explain in Remark	(S.)
Are Vegetation	, Soil	, or Hydrology	significantly distur	oed? Are "Norn	nal Circumstanc	es" prese	ent? Yes	No
Are Vegetation	, Soil	, or Hydrology	naturally problema	tic? (If needed	l, explain any ar	nswers in	Remarks.)	
SUMMARY OF F	INDING	SS – Attach site r	nap showing sam	pling point locat	ions, transe	cts, im	portant featu	res, etc.

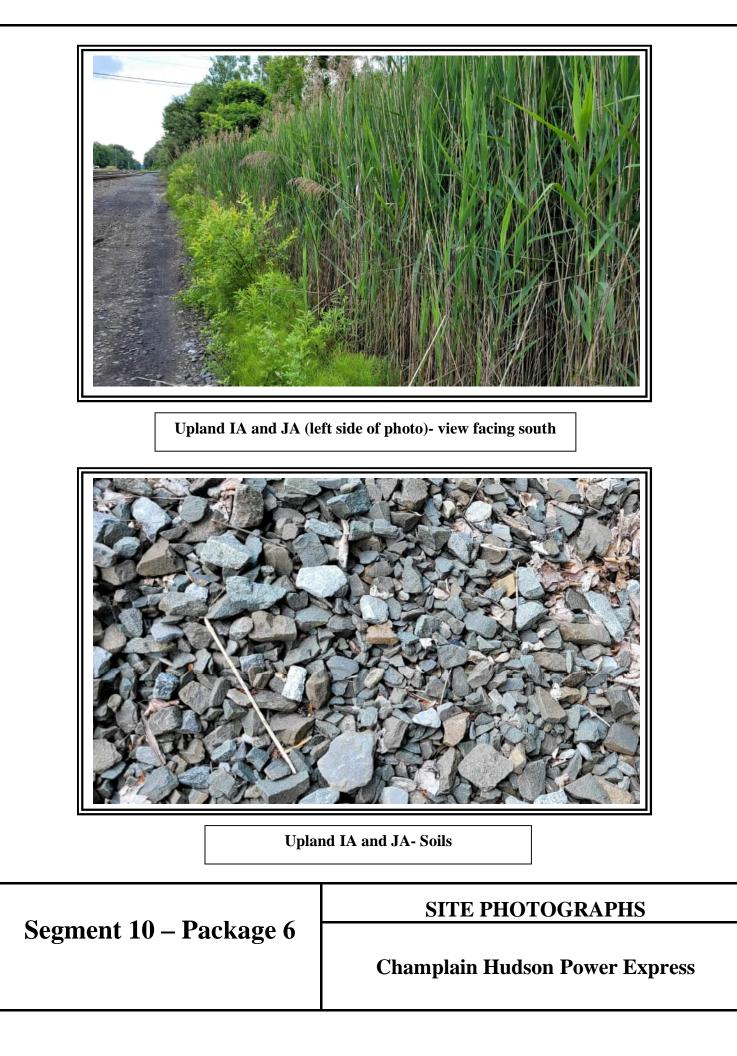
Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Hydric Soil Present?	Yes	No X	
Wetland Hydrology Present?	Yes	No X	
Remarks: (Explain alternative procedu	ires here or in a	separate report.)	

Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)
Primary Indicators (minimum of on	e is required; check all	l that apply)		Surface Soil Cracks (B6)
Surface Water (A1)	Water	-Stained Leaves (B9)		Drainage Patterns (B10)
High Water Table (A2)	Aquati	ic Fauna (B13)		Moss Trim Lines (B16)
Saturation (A3)	Marl D	Deposits (B15)		Dry-Season Water Table (C2)
Water Marks (B1)	Hydro	gen Sulfide Odor (C1)		Crayfish Burrows (C8)
Sediment Deposits (B2)	Oxidiz	ed Rhizospheres on Living Re	oots (C3)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Preser	nce of Reduced Iron (C4)		Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)	Recen	t Iron Reduction in Tilled Soil	s (C6)	Geomorphic Position (D2)
Iron Deposits (B5)	Thin M	/luck Surface (C7)		Shallow Aquitard (D3)
Inundation Visible on Aerial Im	agery (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):	Wetlan	nd Hydrology Present? Yes No
(includes capillary fringe)				
Describe Recorded Data (stream g	jauge, monitoring well,	, aerial photos, previous inspe	ections), if a	available:
Domerka				
Remarks:				

Sampling Point: -109 JA-4 Upla

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	30	Yes	FACU	Number of Dominant Species
2. Juniperus virginiana	40	Yes	FACU	That Are OBL, FACW, or FAC:(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:
7				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0
1. Lonicera spp.	20	Yes	FACU	FACW species 0 x 2 = 0
2. Rhamnus cathartica	30	Yes	FACU	FAC species 30 x 3 =90
3				FACU species 120 x 4 = 480
4				UPL species 0 x 5 = 0
5				Column Totals: 150 (A) 570 (B)
6.				Prevalence Index = B/A = 3.80
7.				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				2 - Dominance Test is >50%
1. Solidago spp.	30	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				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.				<sup>1</sup> 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				<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.
Woody Vine Stratum (Plot size: 30 )				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4		=Total Cover		Present?
		- Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Type!       Loa"       Remarks         0-10       10yr 4/2       100	(inches)       Color (moist)       %       Type'       Loc <sup>2</sup> Texture       Remarks         0-10       10yr 4/2       100	(inches)       Color (moist)       %       Type1       Loc2       Texture       Ref         0-10       10yr 4/2       100       Loamy/Clayey       Loamy/Layey       Loamy/Clayey       Loamy/Clayey
0-10       10yr 4/2       100       Loamy/Clayey	0-10       10yr 4/2       100       Loamy/Clayey	0-10       10yr 4/2       100       Loamy/Clayey
Image: Sufficiency of the second s	Image: Sufface (A1)       Image: Sufface (A2)         Image: Sufface (A2)       Image: Sufface (A2)         Image: Sufface (S5)       Image: Sufface (F6) <td>Image: Image: Image:</td>	Image:
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Trype:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S11) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR Polyvalue Below Surface (S9) (LR <b< td=""></b<>
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Trype:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S11) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR Polyvalue Below Surface (S9) (LR <b< td=""></b<>
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       5 cm Mucky Peat or Peat (S3) (LRR K, 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)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       5 cm Mucky Peat or Peat (S3) (LRR K, 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)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       5 cm Mucky Peat or Peat (S3) (LRR K, 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)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.       Restrictive Layer (if observed):         Type:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1444, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 1444, 145, 1         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.       Restrictive Layer (if observed):         Type:	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LFR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9) (LFR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       5 cm Mucky Peat or Peat (S3) (LRR K, 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)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       5 cm Mucky Peat or Peat (S3) (LRR K, 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)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LFR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9) (LFR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       5 cm Mucky Peat or Peat (S3) (LRR K, 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)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LFR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9) (LFR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       5 cm Mucky Peat or Peat (S3) (LRR K, 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)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LFR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9) (LFR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Trype:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S11) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR Polyvalue Below Surface (S9) (LR <b< td=""></b<>
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Trype:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S11) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR Polyvalue Below Surface (S9) (LR <b< td=""></b<>
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Trype:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S11) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR Polyvalue Below Surface (S9) (LR <b< td=""></b<>
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 1498)       5 cm Mucky Peat or Peat (S3) (LRR K, 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)       Iron-Manganese Masses (F12) (LRR K, L)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Other (Explain in Remarks)         ************************************	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LFR K, L)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9) (LFR 
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Trype:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S11) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR Polyvalue Below Surface (S9) (LR <b< td=""></b<>
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Trype:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S11) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR Polyvalue Below Surface (S9) (LR <b< td=""></b<>
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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 (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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       Red Parent Material (F21)         Sandy Redox (S5)       Redox Depressions (F8)       Very Shallow Dark Surface (F22)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Trype:	Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	Hydric Soil Indicators:Indicators for Problematic HyHistosol (A1)Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S11) (LRR K, L)Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9) (LR Polyvalue Below Surface (S9) (LR <b< td=""></b<>
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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)       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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 44A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):       Type:       Type:	Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 1498)         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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 1448, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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:         Restrictive Layer (if observed):         Type:	Histosol (A1)Polyvalue Below Surface (S8) (LRR R, MLRA 149B)2 cm Muck (A10) (LRR K, Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat ( Polyvalue Below Surface (S1) (LRR K, 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) (LF 
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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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)       all dicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:	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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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)       The case of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.	Histic Epipedon (A2)MLRA 149B)Coast Prairie Redox (A16)Black Histic (A3)Thin Dark Surface (S9) (LRR R, MLRA 149B)5 cm Mucky Peat or Peat (Hydrogen Sulfide (A4)High Chroma Sands (S11) (LRR K, L)Polyvalue Below Surface (S9)Stratified Layers (A5)Loamy Mucky Mineral (F1) (LRR K, L)Thin Dark Surface (S9) (LFR K, L)Depleted Below Dark Surface (A11)Loamy Gleyed Matrix (F2)Iron-Manganese Masses (FThick Dark Surface (A12)Depleted Matrix (F3)Piedmont Floodplain SoilsSandy Mucky Mineral (S1)Redox Dark Surface (F6)Mesic Spodic (TA6) (MLRA
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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA '         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):         Type:	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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):         Type:	Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (         Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (3)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LFR K, L)         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (I         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA)
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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 4         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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       Chark Surface (S7)         Type:       Type:       Type:       Type:	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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA Sandy Mucky Mineral (S1)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):         Type:	Hydrogen Sulfide (A4)       High Chroma Sands (S11) (LRR K, L)       Polyvalue Below Surface (S12)         Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LF         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F2)         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA)
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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA '         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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)       Restrictive Layer (if observed):       Type:         Type:	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)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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)       Restrictive Layer (if observed):       Type:	Stratified Layers (A5)       Loamy Mucky Mineral (F1) (LRR K, L)       Thin Dark Surface (S9) (LF         Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (f         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA)
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 7         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):       Type:	Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K, L         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):       Type:	Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (f         Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA)
Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 145, 1         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):       Type:	Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):         Type:	Thick Dark Surface (A12)       Depleted Matrix (F3)       Piedmont Floodplain Soils         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA)
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):       Type:	Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 1         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.         Restrictive Layer (if observed):       Type:	Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Mesic Spodic (TA6) (MLRA
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.         Restrictive Layer (if observed):       Type:	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.         Restrictive Layer (if observed):       Type:	
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.         Restrictive Layer (if observed):       Type:	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.         Restrictive Layer (if observed):       Type:	
Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Stripped Matrix (S6)       Marl (F10) (LRR K, L)       Other (Explain in Remarks)         Dark Surface (S7)       3Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):       Type:	Sandy Redox (S5) Redox Depressions (F8) Very Shallow Dark Surface
Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. <b>Restrictive Layer (if observed):</b> Type:	Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. <b>Restrictive Layer (if observed):</b> Type:	
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed):  Type:	
Restrictive Layer (if observed): Type:	Restrictive Layer (if observed):         Type:	
Restrictive Layer (if observed): Type:	Restrictive Layer (if observed):         Type:	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
		Туре:
Remarks:		Denth (inches): Hydric Soil Present? Yes



Project/Site: CHPE			City/Count	y: <u>Selkirk/Alba</u>	iny	Sampling Date: 10.10.2022
Applicant/Owner: TDI					State: NY	Sampling Point: P6-C-1 Wet
Investigator(s): J. Greaves &	C. Scrivner		Se	ection, Townsh	nip, Range:	
Landform (hillside, terrace, etc		າ				
Subregion (LRR or MLRA):		Lat:				
Soil Map Unit Name: Udipsa					NWI classification:	
Are climatic / hydrologic condi	itions on the site	typical for this time of	of year?	Yes X	No (If no, e	xplain in Remarks.)
Are Vegetation , Soil	, or Hydrol	ogy significa				ent? Yes X No
Are Vegetation, Soil					plain any answers in	
SUMMARY OF FINDIN						
					, ,	<u> </u>
Hydrophytic Vegetation Pres Hydric Soil Present?		Yes X No Yes X No		ampled Area Wetland?	Vec V	No
Wetland Hydrology Present?		Yes X No Yes X No			Yes X	No P6-C near flag P6-C-1
Remarks: (Explain alternativ						
HYDROLOGY						
Wetland Hydrology Indicate				Sec		ninimum of two required)
Primary Indicators (minimum	of one is require			<u> </u>	Surface Soil Cracks	. ,
Surface Water (A1)		x Water-Stained	. ,	<u>X</u>	Drainage Patterns (	
High Water Table (A2) Saturation (A3)		Aquatic Fauna Marl Deposits	. ,		Moss Trim Lines (B Dry-Season Water	
Water Marks (B1)		Hydrogen Sulf	. ,		Crayfish Burrows (C	
Sediment Deposits (B2)			ospheres on Living Ro	ots (C3)	-	n Aerial Imagery (C9)
Drift Deposits (B3)			educed Iron (C4)		Stunted or Stressed	
Algal Mat or Crust (B4)		Recent Iron Re	eduction in Tilled Soils	x (C6) x	Geomorphic Positio	( )
Iron Deposits (B5)		Thin Muck Sur	face (C7)		Shallow Aquitard (D	03)
Inundation Visible on Ae	rial Imagery (B7)	Other (Explain	in Remarks)		Microtopographic R	elief (D4)
x Sparsely Vegetated Con	cave Surface (B	3)		X	FAC-Neutral Test (I	D5)
Field Observations:						
Surface Water Present?	Yes		h (inches):			
Water Table Present?	Yes		h (inches):			
Saturation Present?	Yes	No <u>x</u> Depth	h (inches):	Wetland Hy	drology Present?	Yes <u>X</u> No
(includes capillary fringe)					- h	
Describe Recorded Data (str	ream gauge, mon	itoring well, aerial p	notos, previous inspec	ctions), if availa	adie:	
Remarks:						

Sampling Point: P6-C-1 Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	95	Yes	FAC	
2.				Number of Dominant Species           That Are OBL, FACW, or FAC:         4         (A)
3				Total Number of Dominant
4.				Species Across All Strata:4 (B)
5		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
6 7.		·		That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B) Prevalence Index worksheet:
<i>I</i>	95	=Total Cover		
Sapling/Shrub Stratum (Plot size: 15')	90			Total % Cover of:Multiply by:OBL species25x 1 =25
	5	Yes	FAC	FACW species $30 \times 2 = 60$
2		165	FAC	
3.		·		
		·		
4		·		UPL species $5 \times 5 = 25$
5				Column Totals: <u>160</u> (A) <u>410</u> (B)
6		·		Prevalence Index = B/A =2.56
7				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%
1. Osmunda spectabilis	25	Yes	OBL	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Osmundastrum cinnamomeum	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Onoclea sensibilis	10	No	FACW	data in Remarks or on a separate sheet)
4. Celastrus orbiculatus	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indiactors of hydric coll and watered hydrology must be
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.		·		<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 herbaceous (non-woody) plants, regardless
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.				Hydrophytic Versteiler
4.		·		Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet )			
	ale sheet.)			

Profile Desc	ription: (Describe	to the dep	oth needed to docu	ment th	e indica	tor or co	nfirm the absence of i	indicators.)
Depth	Matrix	-		x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 3/1	85	10YR 5/4	15	С	PL/M	Loamy/Clayey	Distinct redox concentrations
7-16	10YR 4/2	65	10YR 5/4	20	с	m	Sandy	Distinct redox concentrations
			7.5YR 5/8	15	С	m		Prominent redox concentrations
16-22	10YR 6/2	80	10YR 5/8	20	с	m	Sandy	Prominent redox concentrations
1								
Type: C=Co Hydric Soil II		etion, RM	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		_=Pore Lining, M=Matrix.
Histosol (			Polyvalue Belo	w Surfac	o (S8) (I			ck (A10) (LRR K, L, MLRA 149B)
	ipedon (A2)		MLRA 149B		,e (00) (L	-IXIX IX,		airie Redox (A16) ( <b>LRR K, L, R</b> )
				,				
Black His	. ,		Thin Dark Surfa					cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
Stratified	Layers (A5)		Loamy Mucky I	Mineral (	F1) ( <b>LRF</b>	R K, L)	Thin Dark	k Surface (S9) (LRR K, L)
X Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (F	-2)		Iron-Man	ganese Masses (F12) (LRR K, L, R)
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmont	t Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		X Redox Dark Su	urface (F	6)		Mesic Sp	oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eyed Matrix (S4)		Depleted Dark					ent Material (F21)
			<u> </u>		. ,			
	edox (S5)		x Redox Depress		3)			Illow Dark Surface (F22)
Dark Sur	Matrix (S6) face (S7)		Marl (F10) ( <b>LR</b>	R K, L)				xplain in Remarks)
Dain our								
		ion and w	etland hydrology mus	st be pre	sent, unl	ess distu	rbed or problematic.	
Restrictive L Type:	ayer (if observed):							
Depth (in	ches):						Hydric Soil Present	t? Yes X No
Remarks:	· · ·							

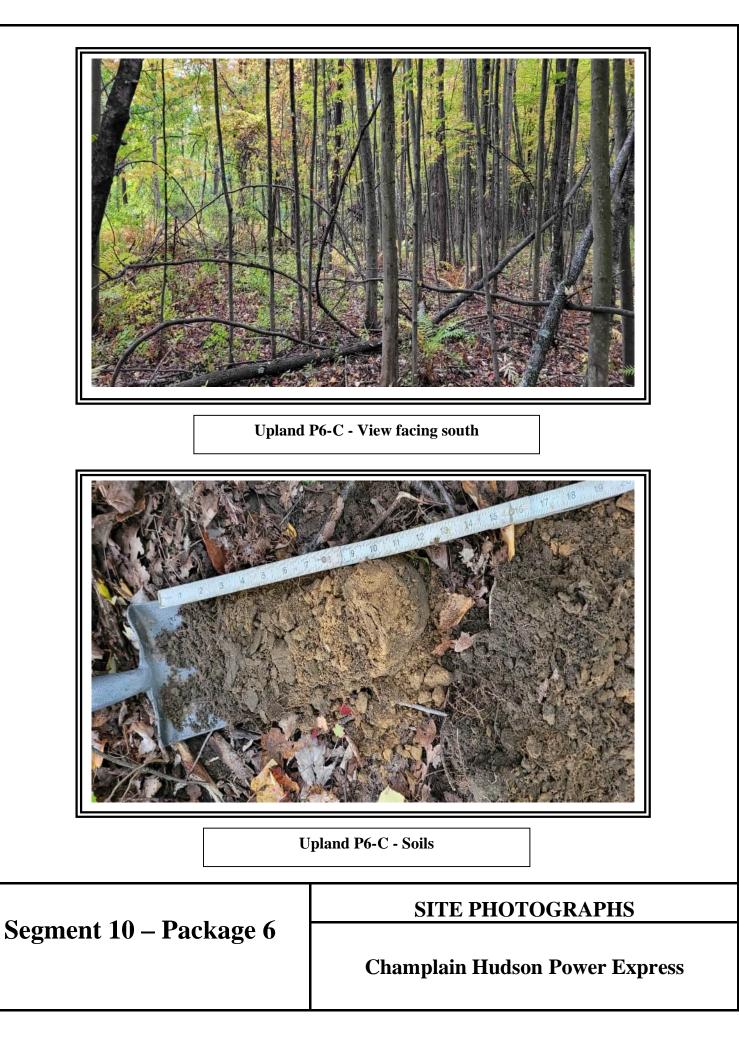


Project/Site: CHPE	City/Count	y: Selkirk/Albany	Sampling Date: 10.10.2022	
Applicant/Owner: TDI		State: NY		
Investigator(s): J. Greaves & C. Scrivner	Sf	ection, Township, Range:		
Landform (hillside, terrace, etc.): terrace		ive, convex, none): none		
Subregion (LRR or MLRA): LRR R	Lat:	Long:	Datum: WGS84	
- · · · ·		-		
Soil Map Unit Name: Udipsamments, smoothed		NWI classification:		
Are climatic / hydrologic conditions on the site typ			explain in Remarks.)	
Are Vegetation, Soil, or Hydrolog	significantly disturbed?	Are "Normal Circumstances" pres	ent? Yes X No	
Are Vegetation, Soil, or Hydrology	<pre>/naturally problematic?</pre>	(If needed, explain any answers in	n Remarks.)	
SUMMARY OF FINDINGS - Attach sit	e map showing sampling po	int locations, transects, ir	mportant features, etc.	
Hydrophytic Vegetation Present? Ye		ampled Area		
		Wetland? Yes	No X	
Wetland Hydrology Present? Ye		otional Wetland Site ID: Upland		
Remarks: (Explain alternative procedures here Deciduous forest.	n in a separate report.)			
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicators (r	minimum of two required)	
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Crack	s (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 (		
Sediment Deposits (B2)	_Oxidized Rhizospheres on Living Ro		on Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron (C4)	Stunted or Stresse		
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils			
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (I		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic F		
Sparsely Vegetated Concave Surface (B8)		FAC-Neutral Test (	D5)	
Field Observations:				
	o x Depth (inches):			
	o x Depth (inches): o x Depth (inches):	Wetland Hydrology Present?	Yes No X	
(includes capillary fringe)		Weitand Hydrology Fresent?		
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspec	ctions), if available:		
		,		
Remarks:				

Sampling Point: P6-C-1 Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Acer rubrum	90	Yes	FAC	Number of Dominant Species	
2. Betula populifolia	10	No	FAC	That Are OBL, FACW, or FAC:	<u>2</u> (A)
ß.				Total Number of Dominant	
ł				Species Across All Strata:	<u>6</u> (B)
j				Percent of Dominant Species	
6					3.3% (A/
7				Prevalence Index worksheet:	
	100	=Total Cover		Total % Cover of: Mult	tiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species 0 x 1 =	0
Acer rubrum	10	Yes	FAC	FACW species10 x 2 =	20
2. Lonicera morrowii	10	Yes	FACU	FAC species 120 x 3 =	360
3				FACU species 45 x 4 =	180
4				UPL species x 5 =	100
5.				Column Totals: 195 (A)	660 (
S				Prevalence Index = B/A =	3.38
·				Hydrophytic Vegetation Indicators:	
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vege	etation
Herb Stratum (Plot size: 5')		-		2 - Dominance Test is >50%	
. Lonicera morrowii	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2. Celastrus orbiculatus	15	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Pro	vide support
3. Osmundastrum cinnamomeum	5	No	FACW	data in Remarks or on a separate	e sheet)
A. Onoclea sensibilis	5	No	FACW	Problematic Hydrophytic Vegetation	n <sup>1</sup> (Explain)
5. Acer rubrum	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydric	drology musi
6. Toxicodendron radicans	5	No	FAC	present, unless disturbed or problematic	•••
7. Galium aparine	5	No	FACU	Definitions of Vegetation Strata:	
3.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or m	oro in diama
).				at breast height (DBH), regardless of he	
10.				Sepling/chruh Weady planta loss the	
				<b>Sapling/shrub</b> – Woody plants less tha and greater than or equal to 3.28 ft (1 m	
11.		·		and greater than or equal to 3.28 ft (1 m	i) tall.
11.	70	=Total Cover			ı) tall. nts, regardle
11 12	70	=Total Cover		and greater than or equal to 3.28 ft (1 m Herb – All herbaceous (non-woody) plan of size, and woody plants less than 3.28	n) tall. nts, regardle 3 ft tall.
11.           12.           Woody Vine Stratum           (Plot size: 30')	70	=Total Cover Yes	UPL	and greater than or equal to 3.28 ft (1 m Herb – All herbaceous (non-woody) plan	n) tall. nts, regardle 3 ft tall.
11			UPL	and greater than or equal to 3.28 ft (1 m Herb – All herbaceous (non-woody) plan of size, and woody plants less than 3.28 Woody vines – All woody vines greater	n) tall. nts, regardle 3 ft tall.
11.         12.         Noody Vine Stratum       (Plot size: 30')         1.       Celastrus orbiculatus         2.			UPL	and greater than or equal to 3.28 ft (1 m Herb – All herbaceous (non-woody) plan of size, and woody plants less than 3.28 Woody vines – All woody vines greater height. Hydrophytic	n) tall. nts, regardle 3 ft tall.
11			UPL	and greater than or equal to 3.28 ft (1 m Herb – All herbaceous (non-woody) plan of size, and woody plants less than 3.28 Woody vines – All woody vines greater height.	i) tall. nts, regardle 3 ft tall. than 3.28 ft

Profile Desc	ription: (Describe t	o the dep	oth needed to docu	ment th	e indica	tor or co	nfirm 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	Remarks	
0-6	10YR 3/2	95	10YR 5/4	5	С	m	Sandy	Distinct redox concentrations	
6-11	10YR 6/3	70	10YR 5/6	20	С	m	Sandy	Distinct redox concentrations	
			2.5YR 5/8	10	с	m		Prominent redox concentrations	S
·									
17							21		
Hydric Soil I	ncentration, D=Deple	etion, Rivi	=Reduced Matrix, M	S=Mask	ed Sand	Grains.		Pore Lining, M=Matrix. Problematic Hydric Soils <sup>3</sup> :	
Histosol			Polyvalue Belo	w Surfac	e (S8) ( <b>I</b>	.RR R.		(A10) ( <b>LRR K, L, MLRA 149B</b> )	
	ipedon (A2)		 MLRA 149B		- ( / (	,		rie Redox (A16) ( <b>LRR K, L, R</b> )	
Black His			Thin Dark Surfa	,	(LRR R.	MLRA 1		y Peat or Peat (S3) (LRR K, L, R	2)
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)	-,
	Layers (A5)		Loamy Mucky I					Surface (S9) (LRR K, L)	
		(				( <b>K</b> , L)		( ) ( ) ,	<b>.</b>
	Below Dark Surface	(A11)	Loamy Gleyed		-2)			anese Masses (F12) (LRR K, L, I	
	rk Surface (A12)		Depleted Matrix	• •				Floodplain Soils (F19) ( <b>MLRA 14</b> 9	
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Spo	dic (TA6) ( <b>MLRA 144A, 145, 149</b>	B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Paren	t Material (F21)	
X Sandy R	edox (S5)		Redox Depress	sions (F8	3)		Very Shall	ow Dark Surface (F22)	
	Matrix (S6)		Marl (F10) (LR		,			lain in Remarks)	
	face (S7)			, ,				<b>,</b>	
<sup>3</sup> Indicators of	hydrophytic vegetati	on and w	etland hydrology mu	st ha nra	sent unl	oss distu	rhed or problematic		
	ayer (if observed):				Sent, uni	033 01310			
Type:	root	S							
Depth (in	iches):	11					Hydric Soil Present?	Yes <u>X</u> No	_
Remarks:							•		

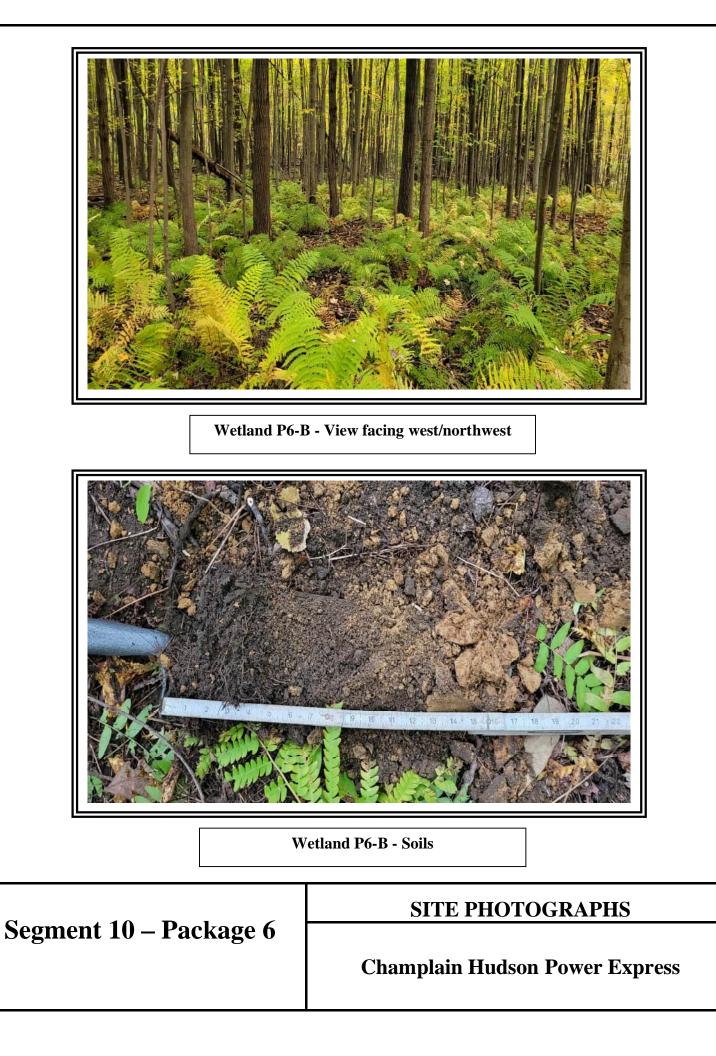


unty: Selkirk/Albany Sampling Date: 10.10.2022
State: NY Sampling Point: P6-B-1 Wet
Section, Township, Range:
ncave, convex, none): <u>concave</u> Slope %: <u>2</u>
Long: Datum: WGS84
NWI classification: PFO1
Yes X No (If no, explain in Remarks.)
Are "Normal Circumstances" present? Yes X No
(If needed, explain any answers in Remarks.)
point locations, transects, important features, etc.
e Sampled Area
n a Wetland? Yes X No
, optional Wetland Site ID: Wetland P6-B near flag P6-B-1
Secondary Indicators (minimum of two required)
Surface Soil Cracks (B6)
x Drainage Patterns (B10)
Moss Trim Lines (B16)
Dry-Season Water Table (C2)
Crayfish Burrows (C8)
Roots (C3) Saturation Visible on Aerial Imagery (C9)
Stunted or Stressed Plants (D1)
ioils (C6) x Geomorphic Position (D2)
Shallow Aquitard (D3)
Microtopographic Relief (D4)
X FAC-Neutral Test (D5)
-
Wetland Hydrology Present? Yes X No
·
spections), if available:

Sampling Point: P6-B-1 Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Populus deltoides	60	Yes	FAC	Number of Deminent Creation		
2. Acer rubrum	30	Yes	FAC	Number of Dominant Species That Are OBL, FACW, or FAC:	6	(A)
3. Ulmus americana 4.	5	No	FACW	Total Number of Dominant Species Across All Strata:	6	(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:	100.0%	_(A/E
7				Prevalence Index worksheet:		
	95	=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species 40 x 1	= 40	
1. Acer rubrum	5	Yes	FAC	FACW species 50 x 2	= 100	
2. Vaccinium corymbosum	5	Yes	FACW	FAC species 95 x 3	= 285	
3				FACU species 0 x 4	=0	
4				UPL species 0 x 5	=0	
5				Column Totals: 185 (A)	425	(E
6				Prevalence Index = B/A =	2.30	
7				Hydrophytic Vegetation Indicator	s:	
	10	=Total Cover		1 - Rapid Test for Hydrophytic	Vegetation	
Herb Stratum (Plot size: 5')				X 2 - Dominance Test is >50%		
1. Osmunda spectabilis	40	Yes	OBL	X 3 - Prevalence Index is $\leq 3.0^{1}$		
2. Osmundastrum cinnamomeum	40	Yes	FACW	4 - Morphological Adaptations <sup>1</sup>	(Provide sup	porti
3.				data in Remarks or on a sep	• •	
A				Problematic Hydrophytic Veget	ation <sup>1</sup> (Expla	in)
5.						
6.				<sup>1</sup> Indicators of hydric soil and wetlan present, unless disturbed or probler		nust
7				Definitions of Vegetation Strata:	nauc.	
8.				Demittions of vegetation strata.		
9.				Tree – Woody plants 3 in. (7.6 cm) at breast height (DBH), regardless of		ame
10 11				<b>Sapling/shrub</b> – Woody plants less and greater than or equal to 3.28 ft		BH
12	80	=Total Cover		<b>Herb</b> – All herbaceous (non-woody of size, and woody plants less than		rdles
Woody Vine Stratum (Plot size: <u>30'</u> 1.	_)			Woody vines – All woody vines gre height.	eater than 3.2	28 ft i
2				Hydrophytic		
				Vegetation		
3.				Present? Yes X	No	
4						

Profile Desc	ription: (Describe	to the dep	th needed to docu	ument th	e indica	tor or co	nfirm 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 2/1	100					Peat	
4-10	10YR 3/1	88	10YR 5/6	10	с	m	Sandy	Prominent redox concentrations
			10YR 3/3	2	с	m		Distinct redox concentrations
10-18	10YR 6/2	60	10YR 2/1	30	с	m	Sandy	Prominent redox concentrations
			10YR 4/6	10	с	m		Prominent redox concentrations
		·						
		·						
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM	Reduced Matrix, M	IS=Mask	ed Sand	Grains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil I		*	,					or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	ow Surfac	ce (S8) ( <b>I</b>	_RR R,	2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	ipedon (A2)		MLRA 149B	3)			Coast Pr	rairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surf	ace (S9)	(LRR R	MLRA 1		icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					k Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(11)				× IX, ⊏)		
·		e (ATT)	Loamy Gleyed		-2)			nganese Masses (F12) (LRR K, L, R)
	rk Surface (A12)		Depleted Matri		-			nt Floodplain Soils (F19) (MLRA 149B)
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	6)			oodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Pare	ent Material (F21)
_x_Sandy R	edox (S5)		Redox Depres	sions (F8	3)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (E	xplain in Remarks)
Dark Sur	face (S7)							
<sup>3</sup> Indicators of	hydrophytic vegetat	ion and we	etland hydrology mu	ist he nre	sent un	ess distu	rbed or problematic	
	ayer (if observed):		iana nyarorogy ma		oon, an			
Туре:								
Depth (in	nches):						Hydric Soil Presen	nt? Yes <u>X</u> No
Remarks:								

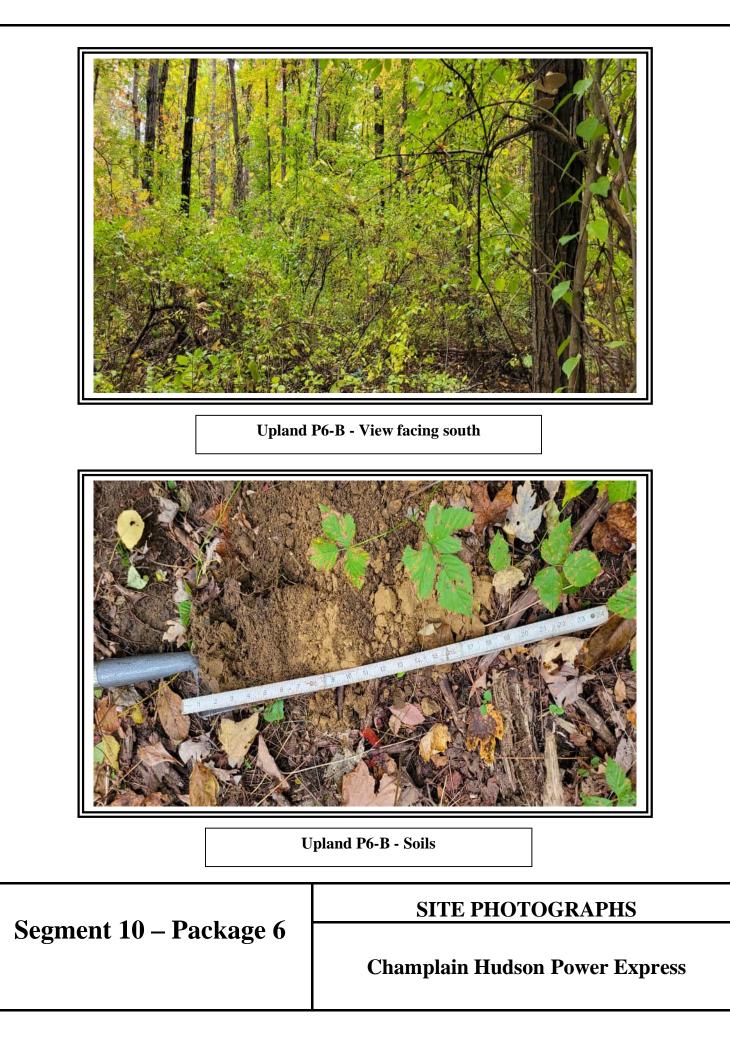


Project/Site: <u>CHPE</u>		City/County: Selkirk/Albany	Sampling Date: 10.10.2022
Applicant/Owner: TDI		State: NY	Sampling Point: P6-B-1 Upl
Investigator(s): J. Greaves & C. Scriv	vner	Section, Township, Range:	
Landform (hillside, terrace, etc.): hi		I relief (concave, convex, none): convex	
Subregion (LRR or MLRA): LRR R		Long:	
Soil Map Unit Name: Ud - Udipsamn		NWI classification:	
Are climatic / hydrologic conditions on			explain in Remarks.)
Are Vegetation, Soil, d			
Are Vegetation, Soil, o			
SUMMARY OF FINDINGS - A	Attach site map showing san	npling point locations, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area	
Hydric Soil Present?	Yes X No	within a Wetland? Yes	No <u>X</u>
Wetland Hydrology Present?	Yes <u>No X</u>	If yes, optional Wetland Site ID:	
Remarks: (Explain alternative proceed Deciduous forest.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (*	minimum of two required)
Primary Indicators (minimum of one i	s required; check all that apply)	Surface Soil Crack	
Surface Water (A1)	Water-Stained Leaves (	(B9) Drainage Patterns	(B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (E	316)
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 of	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Ir	ron (C4) Stunted or Stresse	d Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in		
Iron Deposits (B5)	Thin Muck Surface (C7)	· · ·	D3)
Inundation Visible on Aerial Imag		,	. ,
Sparsely Vegetated Concave Su	rface (B8)	FAC-Neutral Test (	,D5)
Field Observations:			
Surface Water Present? Yes			
Water Table Present? Yes			
Saturation Present? Yes	No x Depth (inches)	Wetland Hydrology Present?	Yes <u>No X</u>
(includes capillary fringe)	uge, monitoring well, aerial photos, pre		
Describe Recorded Data (stream gat	ige, monitoring wen, aerial protos, pre	evious inspections), il available.	
Remarks:			

Sampling Point: P6-B-1 Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Populus deltoides	60	Yes	FAC	
2. Acer rubrum	30	Yes	FAC	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:2(A)
).		100	17.0	
1				Total Number of DominantSpecies Across All Strata:7(B)
5.				
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 28.6% (A/I
7.				Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')		-		OBL species 0 $x 1 = 0$
Lonicera morrowii	70	Yes	FACU	FACW species $0   x 2 = 0$
2. Cornus racemosa	10	No	FAC	FAC species 100 x 3 = 300
3.		_		FACU species $140 \times 4 = 560$
4.				UPL species $35 \times 5 = 175$
5.				Column Totals: 275 (A) 1035 (
5				Prevalence Index = $B/A = 3.76$
7.				Hydrophytic Vegetation Indicators:
	80	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')	00			2 - Dominance Test is >50%
I. Lonicera morrowii	35	Yes	FACU	$3 - Prevalence Index is \leq 3.0^{1}$
	25	-	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide support
		Yes		data in Remarks or on a separate sheet)
Rubus allegheniensis	10	No No	FACU	
Parthenocissus quinquefolia	<u> </u>	No No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Quercus rubra 6.	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diame
Э.				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.				
	85	=Total Cover		Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')		-		
1. Vitis aestivalis	10	Yes	FACU	<b>Woody vines</b> – All woody vines greater than 3.28 ft height.
2. Celastrus orbiculatus	10	Yes	UPL	
3.				Hydrophytic
4.				Vegetation Present? Yes No X
	20	=Total Cover		
	20			

Profile Description: (Describe to the de	pth needed to docu	ment th	e indica	or or co	onfirm the absence of indicators.)
Depth Matrix	Redo	x Featur			
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-7 10YR 3/2 95	10YR 5/6	5	с	m	Sandy Prominent redox concentrations
7-18 10YR 5/4 100					Sandy
					· · · · · · · · · · · · · _ /
					21 anations DL Dava Lining M Matrix
<sup>1</sup> Type: C=Concentration, D=Depletion, RM Hydric Soil Indicators:	I=Reduced Matrix, M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Polyvalue Belo	w Surfac	ce (S8) ( <b>I</b>	.RR R.	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epipedon (A2)	MLRA 149B			,	Coast Prairie Redox (A16) (LRR K, L, R)
Black Histic (A3)	Thin Dark Surfa		(LRR R,	MLRA 1	
Hydrogen Sulfide (A4)	High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky				Thin Dark Surface (S9) (LRR K, L)
Depleted Below Dark Surface (A11)	Loamy Gleyed			, _/	Iron-Manganese Masses (F12) (LRR K, L, R)
Thick Dark Surface (A12)	Depleted Matrix		-)		Piedmont Floodplain Soils (F19) (MLRA 149B)
Sandy Mucky Mineral (S1)	Redox Dark Su		6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)
Sandy Gleyed Matrix (S4)	Depleted Dark				Red Parent Material (F21)
X Sandy Redox (S5)	Redox Depress		3)		Very Shallow Dark Surface (F22)
Stripped Matrix (S6)	Marl (F10) ( <b>LR</b>	R K, L)			Other (Explain in Remarks)
Dark Surface (S7)					
<sup>3</sup> Indicators of hydrophytic vegetation and w	etland hydrology mus	st he nre	sent unl	ess distu	irbed or problematic
Restrictive Layer (if observed):	onana nyarorogy ma		Joonny ann		
Туре:					
Depth (inches):					Hydric Soil Present? Yes X No
Remarks:					



U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE	City/County: Selkirk/Albany	Sampling Date: 10/6/22
Applicant/Owner: TDI	State:	NY Sampling Point: P6-A-4 Wet
Investigator(s): C. Einstein & N. Frazer	Section, Township, Range:	
Landform (hillside, terrace, etc.): flat	Local relief (concave, convex, none): <u>none</u>	Slope %:0
Subregion (LRR or MLRA): LRR R Lat: 42-31-42.	2N Long: 73-48-17.54W	Datum: WGS84
Soil Map Unit Name: Elnora loamy fine sand (EnA)	NWI classi	fication: PFO
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes <u>x</u> No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignifican	y disturbed? Are "Normal Circumstance	es" present? Yes <u>x</u> No
Are Vegetation, Soil, or Hydrologynaturally	roblematic? (If needed, explain any an	swers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transe	ects, important features, etc.

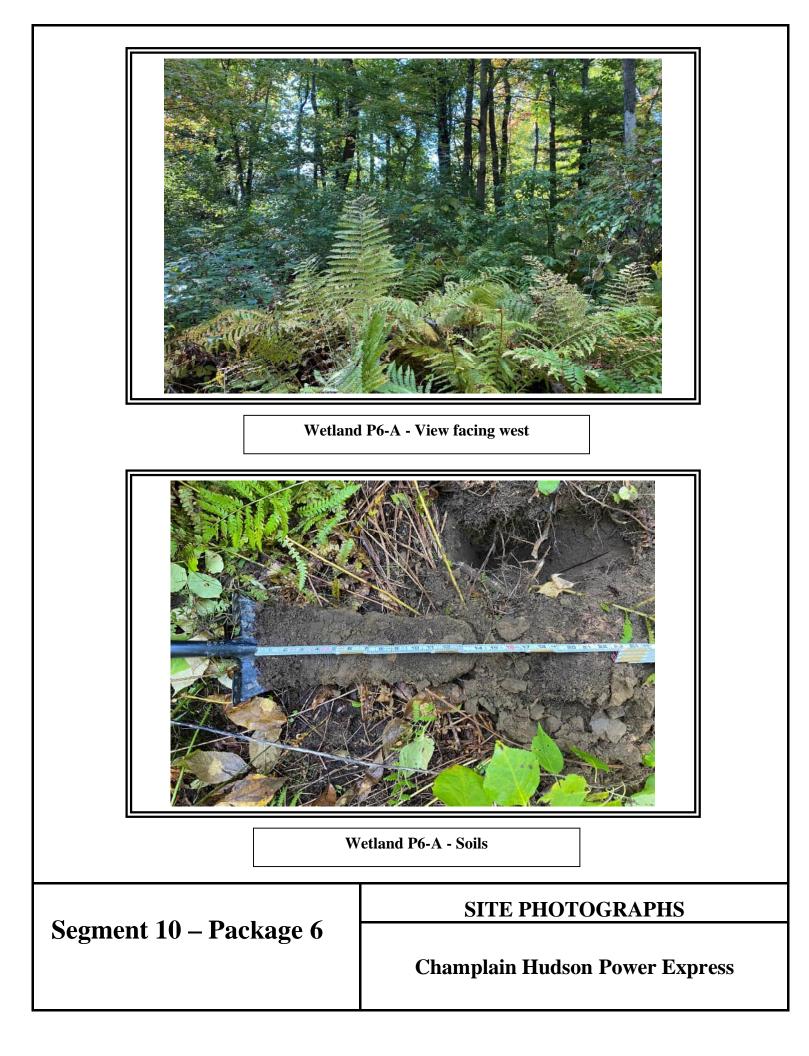
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures Red maple hardwood swamp	nere or in a separate report.)	

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requir	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)	X 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 (E	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): Wetlan	nd Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, previous inspections), i	f available:
Remarks:		

Sampling Point: P6-A-4 Wet

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Acer rubrum	70	Yes	FAC	Number of Deminent Species
2. Liriodendron tulipifera	10	No	FACU	Number of Dominant Species           That Are OBL, FACW, or FAC:         3         (A)
l		·		Total Number of Dominant Species Across All Strata: 5 (B)
 j				Percent of Dominant Species
ð				That Are OBL, FACW, or FAC:60.0% (A/I
7				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species <u>5</u> x 1 = <u>5</u>
Cornus racemosa	20	Yes	FAC	FACW species 0 x 2 = 0
2. Rubus occidentalis	15	Yes	UPL	FAC species x 3 =600
3				FACU species <u>15</u> x 4 = <u>60</u>
ł				UPL species <u>15</u> x 5 = <u>75</u>
5				Column Totals: 235 (A) 740 (
S				Prevalence Index = B/A = 3.15
,				Hydrophytic Vegetation Indicators:
	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5')		-		X 2 - Dominance Test is >50%
Matteuccia struthiopteris	90	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Microstegium vimineum	15	 No	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide support
3. Toxicodendron radicans	5	No	FAC	data in Remarks or on a separate sheet)
4. Osmunda regalis	5	No	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5 6		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
3 9				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh
10				Sapling/shrub – Woody plants less than 3 in. DBH
11		<u> </u>		and greater than or equal to 3.28 ft (1 m) tall.
12				Herb – All herbaceous (non-woody) plants, regardle
	115	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft
1. Celastrus orbiculatus	5	Yes	FACU	height.
2				lludro a la dio
3				Hydrophytic Vegetation
4				Present? Yes X No
	5	=Total Cover		

		to the de				ator or co	onfirm the absence o	f indicators.)
Depth (in the ca)	Matrix			x Featur		12	Tautum	Davida
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 2/1	100					Sandy	
4-11	10YR 3/2	85	10YR 5/6	10	C	M	Sandy	Prominent redox concentrations
			7.5YR 3/4	5	<u> </u>	PL/M		Distinct redox concentrations
11-16	10YR 5/8	100					Sandy	
		·						
		·						
		lation DM					<sup>2</sup> l continui F	
Hydric Soil	oncentration, D=Dep	ielion, Riv	-Reduced Matrix, in	vio-ivias	keu Sano	d Grains.		PL=Pore Lining, M=Matrix.
Histosol			Dark Surface (	(\$7)				uck (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		Polyvalue Belo		ce (S8) (	LRR R.		rairie Redox (A16) ( <b>LRR K, L, R</b> )
	stic (A3)		MLRA 149B		() (	,		ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)		Thin Dark Surf	, face (S9)	) (LRR R	, MLRA <sup>-</sup>		ue Below Surface (S8) (LRR K, L)
Stratified	d Layers (A5)		High Chroma \$	Sands (S	611) ( <b>LR</b>	R K, L)	Thin Da	rk Surface (S9) ( <b>LRR K, L</b> )
Depleted	d Below Dark Surface	e (A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Ma	nganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)		Loamy Gleyed		F2)			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	podic (A17)		Depleted Matri					rent Material (F21) <b>(outside MLRA 145)</b>
	A 144A, 145, 149B)		Redox Dark Si	`	,			allow Dark Surface (F22)
	lucky Mineral (S1)		Depleted Dark				Other (E	Explain in Remarks)
X Sandy R	Bleyed Matrix (S4)		Redox Depres Marl (F10) (LR		0)		<sup>3</sup> Indicate	ors of hydrophytic vegetation and
	Matrix (S6)		Red Parent Ma		21) (MLI	RA 145)		nd hydrology must be present,
					2 · ) (··· <b>-</b> ·	,		s disturbed or problematic.
Restrictive	Layer (if observed):							·
Type:	nor	ne						
Depth (ir	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								
1 tomantor								



U.S. Army Corps of Engineers
WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region
See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R

OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)

Project/Site: CHPE			Cit	ty/County: <u>Selkirk/Al</u>	bany		Sampling Date:	10/6/22
Applicant/Owner:	TDI				State:	NY	_ Sampling Point	: P6-A-4 Upl
Investigator(s): C. Ein	istein & N. I	Frazer		Section, Towr	ship, Range:			
Landform (hillside, terr	ace, etc.):	flat	Local relie	ef (concave, convex,	none): none		Slope	e %: <u>0</u>
Subregion (LRR or ML	RA): <u>LRR</u>	La	t: <u>42-31-42.02N</u>	Long: 7	3-48-17.54W		Datum:	WGS84
Soil Map Unit Name:	Elnora loar	my fine sand (EnA)			NWI classi	fication:	n/a	
Are climatic / hydrologi	ic condition	s on the site typical f	or this time of year?	Yes <u>x</u>	No	(lf no, e	explain in Remarks	s.)
Are Vegetation	, Soil	, or Hydrology	significantly disturbed	l? Are "Norma	I Circumstance	es" prese	nt? Yes <u>x</u>	No
Are Vegetation	, Soil	, or Hydrology	naturally problematic	? (If needed,	explain any an	swers in	Remarks.)	
		Attack alta m		ing a stat least		-	n a stant fa atur	

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

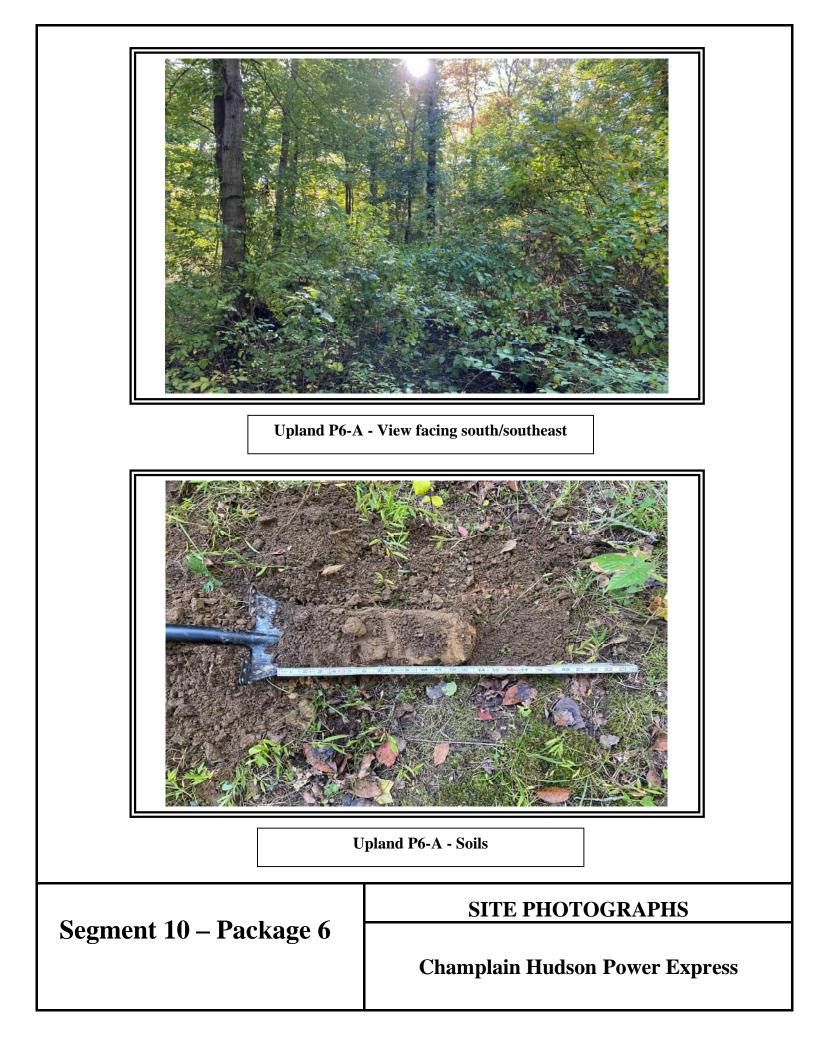
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes         No         X           Yes         No         X           Yes         No         X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures forested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

Wetland Hydrology Indicators:			Secondary Indicators (minim	num of two required)				
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6	<b>5)</b>						
Surface Water (A1)	Drainage Patterns (B10)							
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)					
Saturation (A3)	Dry-Season Water Table	e (C2)						
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C8)					
Sediment Deposits (B2)	Oxidized Rhizospheres on Living Ro	oots (C3)	Saturation Visible on Ae	rial Imagery (C9)				
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed Pla	nts (D1)				
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soils	s (C6)	Geomorphic Position (D	(2)				
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)		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):	Wetlan	d Hydrology Present?	Yes No X				
(includes capillary fringe)								
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, previous inspe	ections), if	available:					
Remarks:								

Sampling Point: P6-A-4 Upl

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	40	Yes	FAC	Number of Deminent Species
2. Quercus alba	40	Yes	FACU	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:2(A)
3. Quercus rubra		No	FACU	Total Number of Dominant
 ŀ.				Species Across All Strata: 6 (B)
5.				
				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/
7.	_			Prevalence Index worksheet:
	90	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)	-		OBL species 0 x 1 = 0
. Rubus occidentalis	- 15	Yes	UPL	FACW species $0   x 2 = 0$
Lonicera tatarica	25	Yes	FACU	FAC species 75 x 3 = 225
				FACU species 135 x 4 = 540
				UPL species 23 x 5 = 115
• · · ·				Column Totals: 233 (A) 880
	_			Prevalence Index = B/A = 3.78
				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5')		-		2 - Dominance Test is >50%
. Microstegium vimineum	35	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
. Rubus occidentalis	8	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide suppor
				data in Remarks or on a separate sheet)
ł.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heig
0.				
1.				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				
	43	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30'	)	-		
. Celastrus orbiculatus	<b>-</b> ′ 45	Yes	FACU	Woody vines – All woody vines greater than 3.28 f height.
2. Vitis aestivalis	10	No	FACU	
3. Parthenocissus quinquefolia	5	No No	FACU	Hydrophytic
				Vegetation Present? Yes No X
		=Total Cover		
	0			

Profile Description: (Describe to the de	epth needed to doc	ument the	indicato	r or con	firm the absence of indica	tors.)	
Depth Matrix	Redo	x Features					
(inches) Color (moist) %	Color (moist)	<u>%</u> T	ype <sup>1</sup>		Texture	Remarks	3
0-11 10YR 3/3 100					Sandy		
11-16 10YR 4/6 100					Sandy		
					<sup>2</sup> l anotional DI – Dorra	Linin o. NA-NA-tui	
<sup>1</sup> Type: C=Concentration, D=Depletion, RI Hydric Soil Indicators:	M-Reduced Matrix, N	/IS-IVIASKet	a sana e	irains.	<sup>2</sup> Location: PL=Pore Indicators for Prob		<u>^</u>
Histosol (A1)	Dark Surface (	S7)			2 cm Muck (A10	-	
Histic Epipedon (A2)	Polyvalue Belo		(S8) ( <b>LR</b>	RR.	Coast Prairie Re		
Black Histic (A3)	MLRA 149B		()(	,	5 cm Mucky Pea		
Hydrogen Sulfide (A4)	Thin Dark Surf	, ace (S9) (L	.RR R, N	ILRA 14			
Stratified Layers (A5)	High Chroma S	Sands (S11	) (LRR <b>k</b>	K, L)	Thin Dark Surfac	e (S9) ( <b>LRR K</b> ,	L)
Depleted Below Dark Surface (A11)	Loamy Mucky	Mineral (F1	) (LRR	<b>(, L</b> )	Iron-Manganese	Masses (F12) (	LRR K, L, R)
Thick Dark Surface (A12)	Loamy Gleyed	Matrix (F2)	)		Piedmont Flood	olain Soils (F19)	(MLRA 149B)
Mesic Spodic (A17)	Depleted Matri	. ,			Red Parent Mate		
(MLRA 144A, 145, 149B)	Redox Dark Su				Very Shallow Da		
Sandy Mucky Mineral (S1)	Depleted Dark		7)		Other (Explain in	Remarks)	
Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Redox Depres Marl (F10) ( <b>LR</b>				<sup>3</sup> Indicators of hy	drophytic ycapte	tion and
Stripped Matrix (S6)	Red Parent Ma			145)		ogy must be pro	
			, (11-1-0-1	140)		ed or problemat	
Restrictive Layer (if observed):							
Type: none							
Depth (inches):					Hydric Soil Present?	Yes	No_X_
Remarks:					•		



Project/Site: CHPE			City/0	County: Selkirk/Albany		Sampling Date: 10	0.10.2022
Applicant/Owner:	TDI			S	tate: NY	Sampling Point:	P6-D-14 Wet
Investigator(s): J. G	reaves &	C. Scrivner		Section, Township, Ra	nge:		
Landform (hillside, te	errace, etc	c.): depression	Local relief (	concave, convex, none): <u>c</u>	oncave	Slope %	6: 3
Subregion (LRR or N	ILRA):	LRR R	Lat: 42 31' 37"N	Long:73 48' 21	"W	Datum:W	/GS84
Soil Map Unit Name:	Elnora	loamy fine sand, 0 to	3 percent slopes	NWI d	lassificatio	n: PEM1	
Are climatic / hydrolo	gic condi	tions on the site typica	al for this time of year?	Yes X No	(If no	, explain in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	significantly disturbed?	Are "Normal Circums	tances" pre	esent? Yes X N	lo
Are Vegetation	, Soil	, or Hydrology	naturally problematic?	(If needed, explain a	ny answers	in Remarks.)	
SUMMARY OF F		GS – Attach site	map showing sampling	point locations, tra	nsects, i	mportant feature	s, etc.

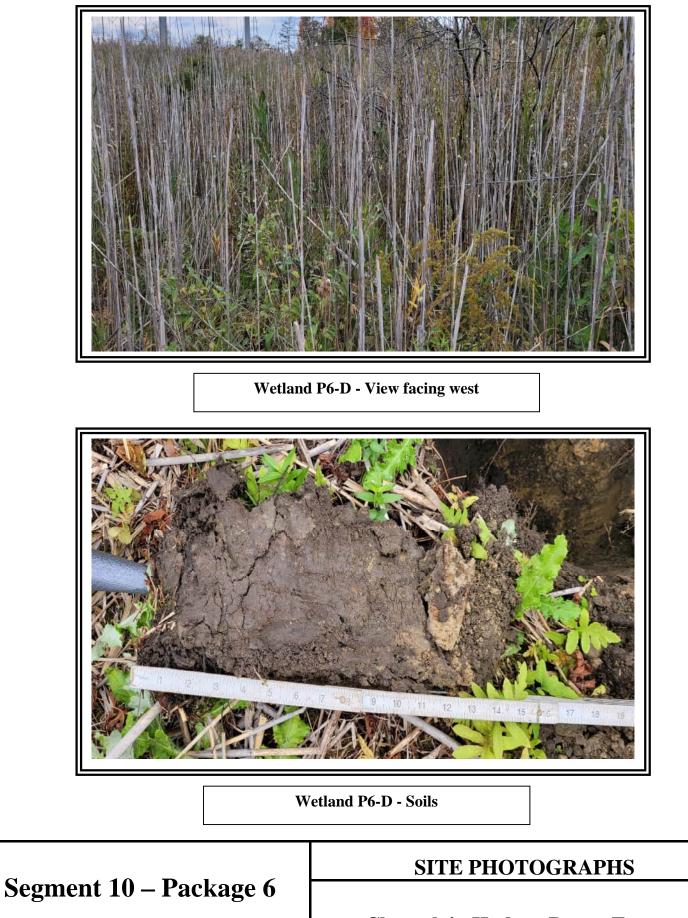
Hydrophytic Vegetation Present?	Yes <u>×</u>	K No	Is the Sampled Area
Hydric Soil Present?	Yes ×	K No	within a Wetland? Yes X No
Wetland Hydrology Present?	Yes ×	K No	If yes, optional Wetland Site ID: Wetland P6-D near flag P6-D-14
Remarks: (Explain alternative procedu Common reed marsh.	res here or in a	a separate report.	)

Wetland Hydrology Indicators:		5	secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is require		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)	x Oxidized Rhizospheres on Living Ro	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)	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):			
	No x Deput (inches).			
Saturation Present? Yes	No x Depth (inches):	Wetland	Hydrology Present? Yes X No	
		Wetland	Hydrology Present? Yes <u>X</u> No	
Saturation Present? Yes	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No x Depth (inches):			
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Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No x Depth (inches):			
Saturation Present? Yes (includes capillary fringe) Describe Recorded Data (stream gauge, mor	No x Depth (inches):			

Sampling Point: P6-D-14 Wet

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:2 (A)
3.       4.				Total Number of Dominant Species Across All Strata: <u>3</u> (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species20 x 1 =20
1. Lonicera morrowii	8	Yes	FACU	FACW species 50 x 2 = 100
2				FAC species X 3 =90
3				FACU species 8 x 4 = 32
4				UPL species x 5 =
5				Column Totals: 108 (A) 242 (B)
6				Prevalence Index = B/A =224
7				Hydrophytic Vegetation Indicators:
	8	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	40	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago rugosa	20	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Scirpus cyperinus	15	No	OBL	data in Remarks or on a separate sheet)
4. Euthamia graminifolia	10	No	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Fraxinus pennsylvanica	5	No	FACW	
6. Salix alba	5	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7. Lythrum salicaria	5	No	OBL	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
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30'</u> ) 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2				
				Hydrophytic
				Vegetation Present? Yes X No
4		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sneet.)			

Profile Desc	ription: (Describe	to the de	oth needed to docu	ument ti	he indica	tor or co	onfirm 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		
0-11	10YR 3/1	80	10YR 5/4	10	C		Sandy Distinct redox concentrations		
			10YR 3/6	5	с		Prominent redox concentrations		
			5YR 4/6	5	C	PL	Prominent redox concentrations		
11-18	10YR 5/2	60	10YR 3/1	30	C		Sandy Faint redox concentrations		
			5YR 4/6	10	с		Prominent redox concentrations		
<sup>1</sup> Type: C=Co	oncentration, D=Depl	letion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.		
Hydric Soil	ndicators:						Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	LRR R,	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )		
Histic Ep	pipedon (A2)		MLRA 149B)				Coast Prairie Redox (A16) (LRR K, L, R)		
Black His			Thin Dark Surface (S9) (LRR R, MLRA 1						
	n Sulfide (A4)		High Chroma S				Polyvalue Below Surface (S8) (LRR K, L)		
	. ,								
	l Layers (A5)		Loamy Mucky			<b>Κ Κ, L</b> )	Thin Dark Surface (S9) (LRR K, L)		
<u>    x</u> Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Manganese Masses (F12) (LRR K, L, R)		
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			Piedmont Floodplain Soils (F19) (MLRA 149B		
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)		
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent Material (F21)		
X Sandy R			Redox Depress				Very Shallow Dark Surface (F22)		
· ·	. ,		·	•	0)				
x Stripped x Dark Sur	. ,		Marl (F10) ( <b>LR</b>	<b>K N, L</b> )			Other (Explain in Remarks)		
3									
			etland hydrology mu	ust be pr	resent, ur	nless dist	turbed or problematic.		
	_ayer (if observed):								
Type: - Depth (ir	iches):						Hydric Soil Present? Yes No		
·									
Remarks:									
			•		• •		2.0 to include the NRCS Field Indicators of Hydric Soils,		
Version 7.0, 3	2015 Errata. (http://v	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs14	l2p2_051293.docx)		



**Champlain Hudson Power Express** 

Project/Site: CHPE	City/County: Selkirk/Albany	Sampling Date: 10.10.2022
Applicant/Owner: TDI	State: NY	Sampling Point: P6-D-18 Wet
Investigator(s): J. Greaves & C. Scrivner	Section, Township, Range:	
Landform (hillside, terrace, etc.): depression	Local relief (concave, convex, none): <u>concave</u>	Slope %: 2
Subregion (LRR or MLRA): LRR R La	t: <u>42 31' 36"N</u> Long: <u>-73 48' 21"W</u>	Datum: WGS84
Soil Map Unit Name: Elnora loamy fine sand, 0 to 3 p	ercent slopesNWI classification	n: PFO1
Are climatic / hydrologic conditions on the site typical f	or this time of year? Yes X No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circumstances" pre	sent? Yes X No
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site m	ap showing sampling point locations, transects, ir	nportant features, etc.

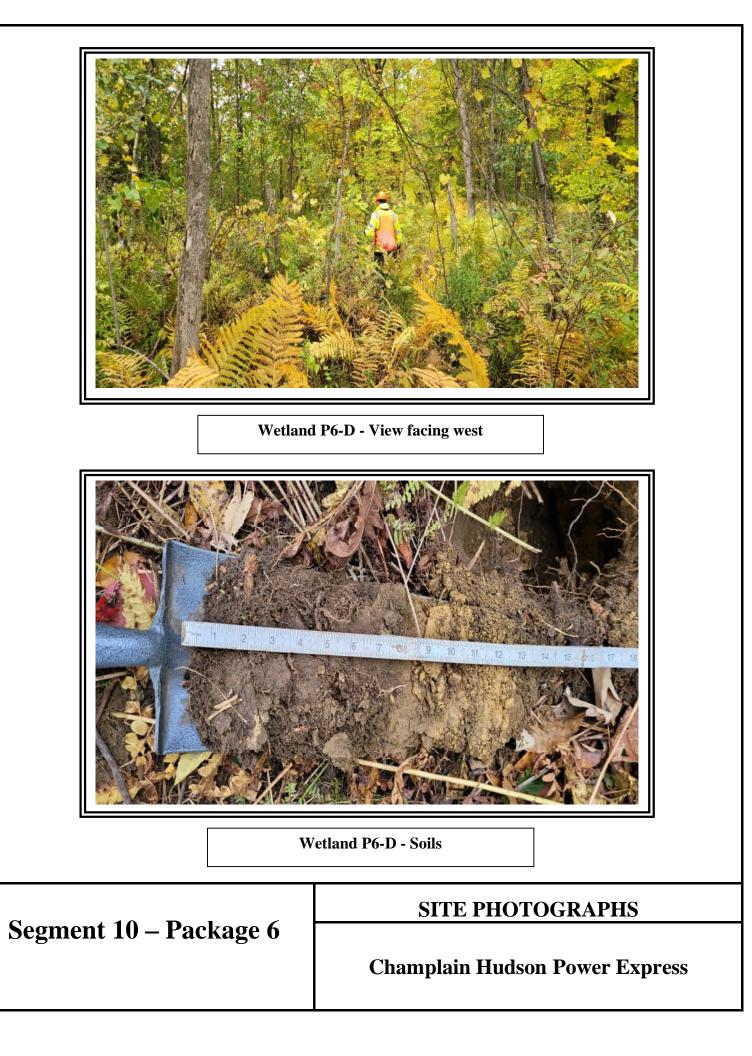
Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Area
Hydric Soil Present?	Yes	No	within a Wetland? Yes No X
Wetland Hydrology Present?	Yes X	No	If yes, optional Wetland Site ID: Wetland P6-D near flag P6-D-18
Remarks: (Explain alternative procedu Red maple hardwood swamp.	res here or in a se	eparate report.)	

Wetland Hydrology Indicators:		<u> </u>	Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is required; check all that apply)			Surface Soil Cracks (B6)	
Surface Water (A1)	Water-Stained Leaves (B9)		x 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)		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):	Wetland	Hydrology Present? Yes X No	
Saturation Present? Yes (includes capillary fringe)	No x Depth (inches):	Wetland	Hydrology Present? Yes X No	
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				
(includes capillary fringe) Describe Recorded Data (stream gauge, mor				

Sampling Point: P6-D-18 Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Acer rubrum	60	Yes	FAC			
2. Ulmus americana	10	No	FACW	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:5(a)		
3. Betula populifolia	10	No	FAC	Total Number of Dominant		
4.				Species Across All Strata: 7 (B)		
5.				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC:		
7				Prevalence Index worksheet:		
	80	=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size: 15')				OBL species X 1 = 10		
1. Fraxinus pennsylvanica	10	Yes	FACW	FACW species 105 x 2 = 210		
2. Viburnum dentatum	10	Yes	FAC	FAC species x 3 = 270		
3. Betula populifolia	5	No	FAC	FACU species 5 x 4 = 20		
4. Vaccinium corymbosum	5	No	FACW	UPL species 10 x 5 =50		
5.				Column Totals: 220 (A) 560 (I		
б.				Prevalence Index = B/A = 2.55		
7.				Hydrophytic Vegetation Indicators:		
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
<u>Herb Stratum</u> (Plot size:5')				X 2 - Dominance Test is >50%		
1. Onoclea sensibilis	40	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Osmundastrum cinnamomeum	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin		
3. Osmunda spectabilis	10	No	OBL	data in Remarks or on a separate sheet)		
4. Impatiens capensis	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Geum canadense	5	No	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus		
6. Fraxinus pennsylvanica	5	No	FACW	be present, unless disturbed or problematic.		
7. Celastrus orbiculatus	5	No	UPL	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 heigh		
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, regardle		
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum (Plot size:30')				Woody vines – All woody vines greater than 3.28 ft		
1. Celastrus orbiculatus	5	Yes	UPL	height.		
2. Parthenocissus quinquefolia	5	Yes	FACU			
3.				Hydrophytic Vegetation		
4.				Present? Yes X No		
	10	=Total Cover				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	 Matrix			x Featur				
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 3/2	90	10YR 4/3	10	C		Sandy	Faint redox concentrations
6-9	10YR 4/2	80	10YR 4/3	5	C		Sandy	Faint redox concentrations
			10YR 5/3	15	c	m		Faint redox concentrations
			10YR 4/6	5	C			Prominent redox concentrations
9-16	10YR 6/6	60	10YR 3/2	30	C		Sandy	Prominent redox concentrations
			10YR 5/6	10	C			Faint redox concentrations
	oncentration, D=Dep	etion, RN	Reduced Matrix, N	/IS=Mas	ked Sand	l Grains.		PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators f	or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,	2 cm Mı	uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	ipedon (A2)		MLRA 149B	)			Coast P	rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	stic (A3)		Thin Dark Surfa	ace (S9	) ( <b>LRR R</b> .	MLRA 1	149B) 5 cm Mu	ucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S	•			·	ie Below Surface (S8) (LRR K, L)
			Loamy Mucky I					rk Surface (S9) ( <b>LRR K, L</b> )
	Layers (A5)					<b>Κ Κ, Ľ</b> )		
	Below Dark Surface	e (A11)	Loamy Gleyed	```	F2)			nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matrix	x (F3)			Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	ucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Par	ent Material (F21)
Sandy R	edox (S5)		Redox Depress	sions (F	8)		Verv Sh	allow Dark Surface (F22)
· ·	? Stripped Matrix (S6) Marl (F10) (LRR K, L)					Explain in Remarks)		
	face (S7)			IX IX, E)				
31	: h		- 41	4 1				
	ayer (if observed):	ion and w	eliand hydrology mu	ist be pr	esent, ur	ness dist	urbed or problematic.	
Type: _								
Depth (in	nches):						Hydric Soil Prese	nt? Yes <u>No X</u>
Remarks:								
			-		• •			CS Field Indicators of Hydric Soils,
				<u>_</u> 000	CINEI	0,1110011		
Dark Sur <sup>3</sup> Indicators of <b>Restrictive L</b> Type: Depth (ir Remarks: This data for	face (S7) hydrophytic vegetat <b>.ayer (if observed):</b> iches):	rthcentral	etland hydrology mu	ust be pr	pplement	: Version	urbed or problematic. Hydric Soil Present 2.0 to include the NR	nt? Yes <u>No X</u>



Project/Site: CHPE		City/C	ounty: Selkirk/Alban	у		Sampling Date:	10.10.2022
Applicant/Owner: TDI				State:	NY	Sampling Point:	P6-D-14&18 Upl
Investigator(s): J. Greaves &	C. Scrivner		Section, Township	o, Range:			
Landform (hillside, terrace, etc.	.): terrace	Local relief (c	oncave, convex, non	e): <u>none</u>		Slope	%: 0
Subregion (LRR or MLRA):	.RR R Lat:	42 31' 37"N	Long:73 4	8'19"W		Datum:	WGS84
Soil Map Unit Name: Elnora l	oamy fine sand, 0 to 3 per	cent slopes	1	WI classi	fication:		
Are climatic / hydrologic condit	ions on the site typical for	this time of year?	Yes X	No	(If no, e	explain in Remarks	.)
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal Cir	cumstance	es" pres	ent? Yes X	No
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, expl	ain any an	swers ir	n Remarks.)	
	0 Attack alter						

|--|

Hydrophytic Vegetation Present?	Yes	No X	Is the Sampled Area				
Hydric Soil Present?	Yes	No X	within a Wetland? Yes No X				
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID: Upland adjacent to Wetland P6-D				
Remarks: (Explain alternative procedures here or in a separate report.) Successional old field. Shared upland point for wetland points P6-D-14 and P6-D-18.							

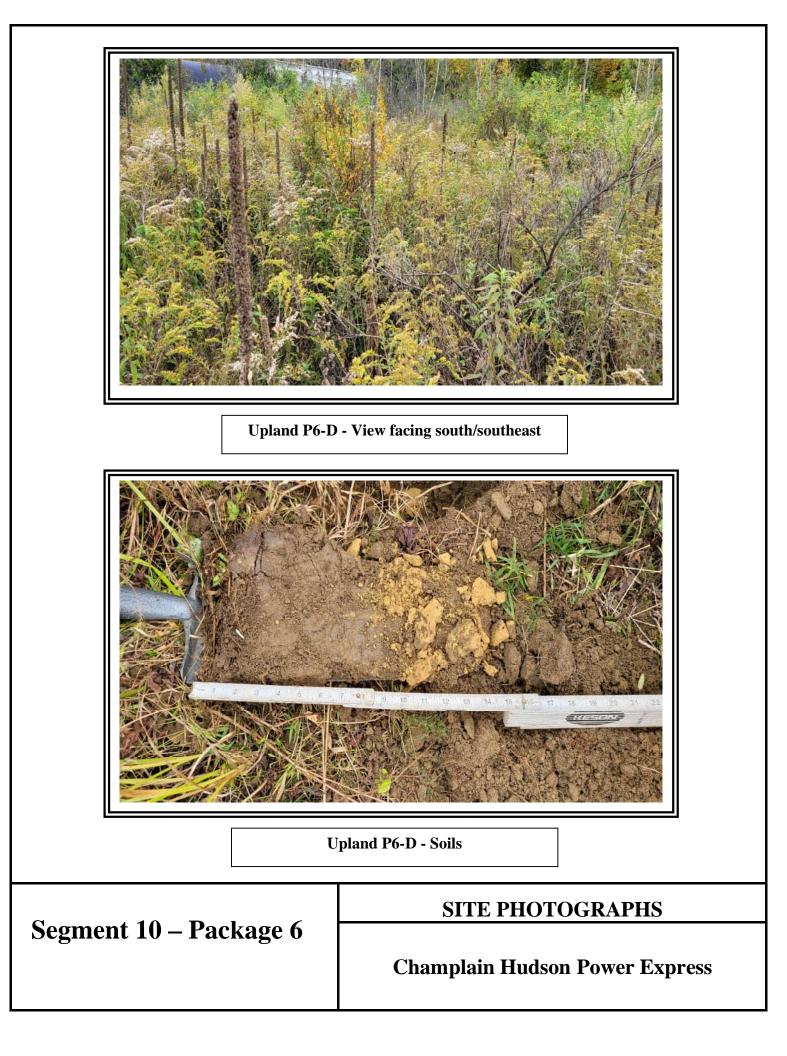
#### HYDROLOGY

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is	s required; 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 Ro	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	ery (B7) Other (Explain in Remarks)	Microtopographic Relief (D4)
Sparsely Vegetated Concave Sur	face (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 gaug	ge, monitoring well, aerial photos, previous inspe	ections), if available:
Remarks:		

Sampling Point: 26-D-14&18 Up

Immediation       (Poil Size:		Absolute	Dominant	Indicator	Deminence Technoritekeet
2.	Tree Stratum (Plot size: <u>30'</u> )	% Cover	Species?	Status	Dominance Test worksheet:
3.					
4.	2				
6.					
7.	5				Percent of Dominant Species
Saping/Shub Stratum         (Plot size:         15'         Yes         FACU         FACU species         0         x1 =         0           1.         Lonicora morrowii         15         Yes         FACU         FACW species         8         x2 =         16           2.	6				That Are OBL, FACW, or FAC: 25.0% (A/B)
Sabinal/Shrub Stratum (Plot size:15')       15       Yes       FACU       FACW species0 x 1 =0         1.       Lonicera morrowii       15       Yes       FACU       FACW species8 x 2 =16         2.	7				Prevalence Index worksheet:
1.       Lonicera morrowii       15       Yes       FACU       FACW species       8       x 2 =       16         2.			=Total Cover		Total % Cover of:Multiply by:
2.	Sapling/Shrub Stratum (Plot size: 15' )				
3.	1. Lonicera morrowii	15	Yes	FACU	
4.	2				FAC species x 3 =50
5.	3				FACU species35 x 4 =140
6.	4				UPL species25 x 5 =125
7.	5				Column Totals: 118 (A) 431 (B)
Instruction       Image: Section of the s	6				Prevalence Index = B/A =3.65
Herb Stratum       (Plot size:	7				Hydrophytic Vegetation Indicators:
1.       Solidago rugosa       50       Yes       FAC       3 - Prevalence Index is ≤3.0 <sup>1</sup> 2.       Verbascum thapsus       20       Yes       UPL       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         3.       Dichanthelium clandestinum       8       No       FACW       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         4.       Carex lucorum       5       No       UPL       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         5.       Symphyotrichum ericoides       5       No       FACU       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         6.       Oxalis stricta       5       No       FACU       Definitions of Vegetation Strata:         7.       Rubus allegheniensis       5       No       FACU       Definitions of Vegetation Strata:         8.		15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
2.       Verbascum thapsus       20       Yes       UPL       4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)         3.       Dichanthelium clandestinum       8       No       FACW         4.       Carex lucorum       5       No       UPL         5.       Symphyotrichum ericoides       5       No       FACU         6.       Oxalis stricta       5       No       FACU         7.       Rubus allegheniensis       5       No       FACU         8.	Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
3.       Dichanthelium clandestinum       8       No       FACW       data in Remarks or on a separate sheet)         4.       Carex lucorum       5       No       UPL       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         5.       Symphyotrichum ericoides       5       No       FACU       Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         6.       Oxalis stricta       5       No       FACU       Definitions of Vegetation Strata:         7.       Rubus allegheniensis       5       No       FACU       Definitions of Vegetation Strata:         8.	1. Solidago rugosa	50	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. Dictantiender Clandesundin       5       No       FACW         4. Carex lucorum       5       No       UPL       Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)         5. Symphyotrichum ericoides       5       No       FACU <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         6. Oxalis stricta       5       No       FACU       Definitions of Vegetation Strata:         7. Rubus allegheniensis       5       No       FACU       Definitions of Vegetation Strata:         8.	2. Verbascum thapsus	20	Yes	UPL	
5.       Symphyotrichum ericoides       5       No       FACU <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.         6.       Oxalis stricta       5       No       FACU       be present, unless disturbed or problematic.         7.       Rubus allegheniensis       5       No       FACU       Definitions of Vegetation Strata:         8.	3. Dichanthelium clandestinum	8	No	FACW	data in Remarks or on a separate sheet)
6.       Oxalis stricta       5       No       FACU       be present, unless disturbed or problematic.         7.       Rubus allegheniensis       5       No       FACU       Definitions of Vegetation Strata:         8.	4. Carex lucorum	5	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6. Oxalis stricta       5       No       FACU       be present, unless disturbed or problematic.         7. Rubus allegheniensis       5       No       FACU       Definitions of Vegetation Strata:         8.	5. Symphyotrichum ericoides	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wotland hydrology must
8.	6. Oxalis stricta	5	No	FACU	
9.	7. Rubus allegheniensis	5	No	FACU	Definitions of Vegetation Strata:
9.	8.				<b>Tree</b> Woody plants 3 in (7.6 cm) or more in
11.	9.				
11.	10.				Sanling/shruh Woody plants loss than 3 in DRH
12.	11.				
98       =Total Cover       of size, and woody plants less than 3.28 ft tall.         Woody Vine Stratum       (Plot size: 30')       .         1.       Vitis aestivalis       5       Yes       FACU         2.       .       .       .       .         3.       .       .       .       .         4.       .       .       .       .         5       Total Cover       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       .       .         .       .       .       .       .       . <td></td> <td></td> <td></td> <td></td> <td>Hark All berbasseus (non woody) plants, regardlass</td>					Hark All berbasseus (non woody) plants, regardlass
Vitis aestivalis     5     Yes     FACU       1.     Vitis aestivalis     5     Yes       2.		98	=Total Cover		
Vitis aestivalis     5     Yes     FACU       1.     Vitis aestivalis     5     Yes       2.	Woody Vine Stratum (Plot size: 30')				
2.	· · · · · · · · · · · · · · · · · · ·	5	Yes	FACU	
3.	2		,		
4 Yegetation Present? Yes No _X 5_ =Total Cover	2				
=Total Cover					-
	*	5	=Total Cover		
Remarks. (Include photo numbers here of on a separate sheet.)	Demarka: (Include photo numbers bers or on a cons		•		
	Remarks. (include photo numbers here of on a separ	ale sheet.)			

Matrix Color (moist) 10YR 3/3 10YR 6/6	% 75   	Color (moist)	x Feature %	<u>Type</u> 1  		Texture         Loamy/Clayey         Sandy         Pro	Remarks
10YR 3/3		10YR 3/1				Loamy/Clayey	
			 				minent redox concentrations
10YR 6/6			  			Sandy Pro	minent redox concentrations
	onlation DM	-Poducod Matrix					
ntration, D=Dep	epiecion, Riv		//S=Mask	ed Sand	Grains.	<sup>2</sup> Location: PL=Pore	
	tation and w	Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed Depleted Matri Redox Dark Su Depleted Dark Redox Depres Marl (F10) (LR	6) face (S9) Sands (S <sup>-</sup> Mineral (I Matrix (F Matrix (F3) urface (F6 Surface (F8 Sions (F8 <b>R K, L</b> )	( <b>LRR R,</b> 11) ( <b>LRR</b> F1) ( <b>LRR</b> 52) 6) (F7)	MLRA 14 8 K, L) 8 K, L)	2 cm Muck (A1 Coast Prairie R 5 cm Mucky Pe Polyvalue Belor Thin Dark Surfa Iron-Manganes Piedmont Floor Mesic Spodic ( Red Parent Ma	ark Surface (F22)
(if observed)	d):						
.):						Hydric Soil Present?	Yes No X
		and Northeast Reg usda.gov/Internet/F				2.0 to include the NRCS Fiel p2_051293.docx)	d Indicators of Hydric Soils,
· ·e\							



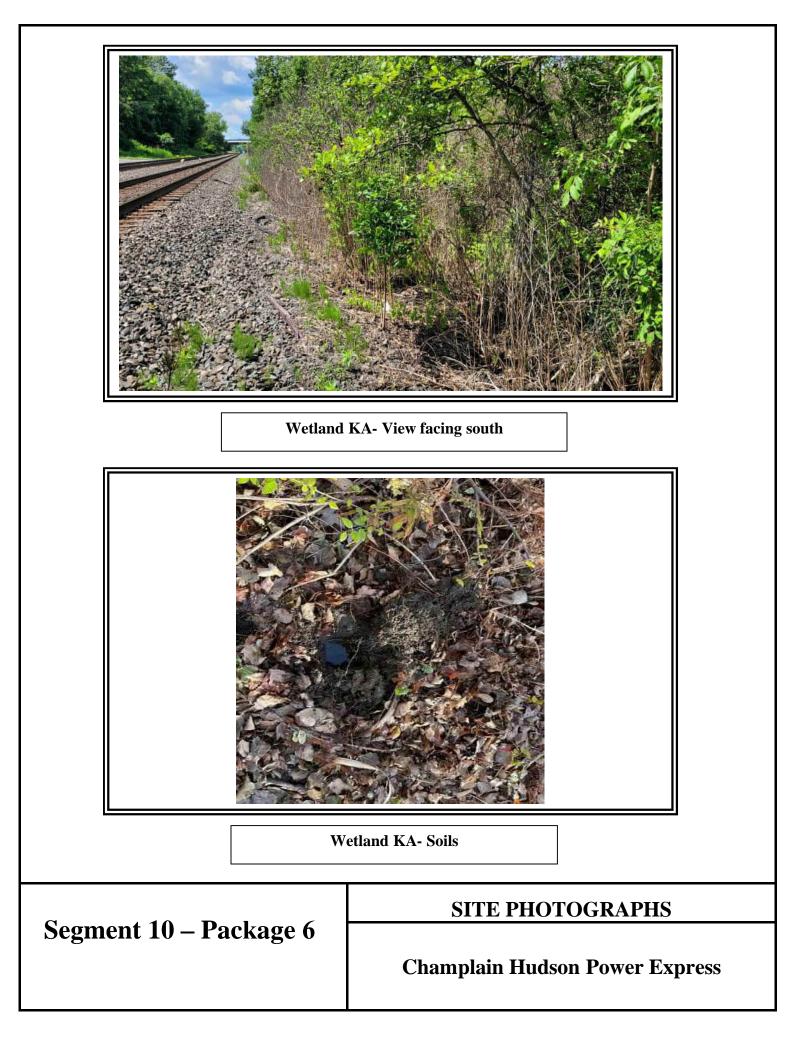
Project/Site: CHPE Package 6 City/Con	unty: <u>Selkirk</u> Sampling Date: <u>11/19/21</u>
Applicant/Owner: CHA	State: NY Sampling Point: KA-1
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	ncave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.52689	Long: -73.80540 Datum: NAD83
Soil Map Unit Name:	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 <u>No</u> , Soil <u>Y</u> , or Hydrology <u>N</u> significantly disturbed?	Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling p	point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled A	rea		
Hydric Soil Present?	Yes	No <u>X</u>	within a Wetland?			
Wetland Hydrology Present?	Yes X	No	lf yes, optional We	tland Site ID:		
Remarks: (Explain alternative procedure Wetland KA	es here or in a se	eparate report.)				
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is re	quired; check al	that apply)		Surface Soil Cracks (B6)		
X Surface Water (A1)				Drainage Patterns (B10)		
High Water Table (A2)	Aquati	c Fauna (B13)		Moss Trim Lines (B16)		
Saturation (A3)	Marl D	eposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydro	gen Sulfide Odor	r (C1)	Crayfish Burrows (C8)		
Sediment Deposits (B2)		•	s on Living Roots (C3)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)		nce of Reduced		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recen	t Iron Reduction	in Tilled Soils (C6)	Geomorphic Position (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)			Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery	arks)	Microtopographic Relief (D4)				
Sparsely Vegetated Concave Surfac	æ (B8)			FAC-Neutral Test (D5)		
Field Observations:						
Surface Water Present? Yes X		Depth (inches	·			
Water Table Present? Yes	No <u>X</u>	Depth (inches	s):			
Saturation Present? Yes	No <u>X</u>	Depth (inches	s): Wetlan	Wetland Hydrology Present? Yes X No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge,	monitoring well	aerial photos, p	revious inspections), if a	available:		
Remarks:						

Sampling Point: KA-1

<u>Tree Stratum</u> (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<u></u> ,				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant
4				Species Across All Strata: 1 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size: 15 )		=Total Cover		Total % Cover of:Multiply by:OBL species0x 1 =
				FACW species $80 \times 2 = 160$
2.				FAC species $0 \times 3 = 0$
				FACU species $0 \times 4 = 0$
				UPL species $0 \times 5 = 0$
				Column Totals: 80 (A) 160 (B)
				Prevalence Index = $B/A = 2.00$
7				Hydrophytic Vegetation Indicators:
7		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5)				X 2 - Dominance Test is >50%
1. Phragmites australis	80	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				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		·		Tree – 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
	80	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30)				Woody vines – All woody vines greater than 3.28 ft in
1		·		height.
2				Hydrophytic
3				Vegetation
4		·		Present? Yes <u>x</u> No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

		to the de				or or co	onfirm the absence of ir	ndicators.)		
Depth	Matrix			x Featu		. 2		_		
(inches)	Color (moist)	%	Color (moist)	%	Туре	Loc <sup>2</sup>	Texture	Rema	rks	
		lation DA				Craina	<sup>2</sup> l costion: DI -	Dere Lining M-M	atoria	
	oncentration, D=Dep	ielion, Ri	A-Reduced Matrix,	1013-10185	sked Sand	Grains.		Pore Lining, M=Ma		
Hydric Soil			Debuselus Del	0.1	(00) (11			Problematic Hydr		
Histosol			Polyvalue Bel		ice (S8) (Li	RR R,		(A10) ( <b>LRR K, L,</b>		-
	pipedon (A2)		MLRA 149E	,				ie Redox (A16) (L		
Black His			Thin Dark Sur					y Peat or Peat (S3		-
	n Sulfide (A4)		High Chroma					Below Surface (S8		L)
	I Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LRR</b>	<b>K</b> , L)	Thin Dark S	Surface (S9) (LRR	<b>K</b> , L)	
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Manga	nese Masses (F12	2) ( <b>LRR K</b>	, L, R)
Thick Da	ark Surface (A12)		Depleted Matr	ix (F3)			Piedmont F	loodplain Soils (F	19) ( <b>MLR</b> 4	<b>\ 149B</b> )
Sandy M	lucky Mineral (S1)		Redox Dark S	urface (F	-6)		Mesic Spoo	lic (⊤A6) ( <b>MLRA 1</b>	44A, 145,	1 <b>49B</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 Shallo	w Dark Surface (F	22)	
Stripped	Matrix (S6)		Marl (F10) (LF	RRK,L)			Other (Exp	ain in Remarks)		
Dark Sur	face (S7)									
	· · ·									
<sup>3</sup> Indicators of	f hydrophytic vegetat	ion and v	vetland hydrology m	ust be p	resent, unl	ess dist	urbed or problematic.			
	Layer (if observed):		, ,,		·		•			
Type:	Grav									
-		0					Hudria Cail Dressut?	Vaa	Na	v
Depth (ir	iches).	0					Hydric Soil Present?	Yes	No	<u>^</u>
Remarks:										
I										



Project/Site: CHPE Package 6	City/County: Selkirk Sampling Date: 11/18/202
Applicant/Owner: <u>CHA</u>	State: NY Sampling Point: KA-2 UP
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.52659	Long: <u>-73.80551</u> Datum:
Soil Map Unit Name:	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time o	f year? Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significan	tly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally	problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes Yes Yes	No X No X No X	Is the Sampled Area within a Wetland? Yes No X If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedu Upland for WL KA				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is a	required: check	all that apply)	Surface Soil Cracks (B6)	

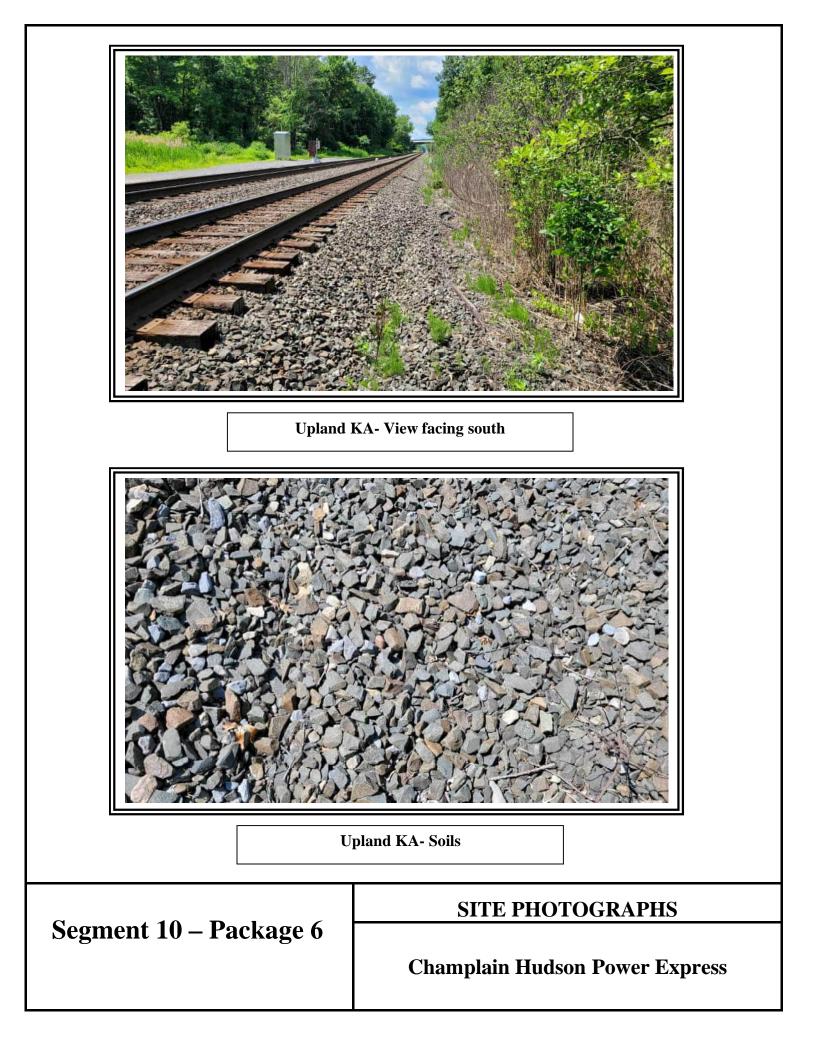
	of one is require	ed; check all	that apply)		Surface Soil Cracks (B6)			
Surface Water (A1)		Water-	Stained Leaves (B9)		Drainage Patterns (B10)			
High Water Table (A2)		Aquatio	c Fauna (B13)		Moss Trim Lines (B16)			
Saturation (A3)		Marl Do	eposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)		Hydrog	jen Sulfide Odor (C1)		Crayfish Burrows (C8	3)		
Sediment Deposits (B2)		Oxidize	ed Rhizospheres on Living F	Roots (C3)	Saturation Visible on	Aerial Imagery (C9)		
Drift Deposits (B3)		Presen	ce of Reduced Iron (C4)		Stunted or Stressed I	Plants (D1)		
Algal Mat or Crust (B4)		Recent	Iron Reduction in Tilled So	ils (C6)	Geomorphic Position	(D2)		
Iron Deposits (B5)		Thin M	uck Surface (C7)		Shallow Aquitard (D3	)		
Inundation Visible on Aer	ial <b>I</b> magery (B7	) Other (	Explain in Remarks)		Microtopographic Rel	lief (D4)		
Sparsely Vegetated Conc	ave Surface (B	,8)			FAC-Neutral Test (D5	5)		
Field Observations:								
Surface Water Present?	Yes	No <u>X</u>	Depth (inches):					
Water Table Present?	Yes	No X	Depth (inches):					
Saturation Present?	Yes	No X	Depth (inches):	Wetlan	d Hydrology Present?	Yes No X		
(includes capillary fringe)								
Describe Recorded Data (stre	am gauge, moi	nitoring well,	aerial photos, previous insp	ections), if a	available:			
Remarks:								

Sampling Point: KA-2 UPL

	Absolute	Dominant	Indicator		
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test worksheet:	
<ol> <li>Pinus resinosa</li> <li>Acer saccharum</li> </ol>	20 35	Yes Yes	FACU FACU	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:2(A)	
3.				Total Number of Dominant	•
4.				Species Across All Strata: 6 (B)	
5.				Percent of Dominant Species	
6.				That Are OBL, FACW, or FAC: 33.3% (A/	B)
7.				Prevalence Index worksheet:	
	55	=Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0	
1. Lonicera	20	Yes	FACU	FACW species 0 x 2 = 0	
2. Rhamnus cathartica	30	Yes	FAC	FAC species 50 x 3 = 150	
3				FACU species <u>105</u> x 4 = <u>420</u>	
4				UPL species x 5 =	
5				Column Totals: 155 (A) 570 (	B)
6				Prevalence Index = B/A = 3.68	
7				Hydrophytic Vegetation Indicators:	
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	
Herb Stratum (Plot size: 5 )				2 - Dominance Test is >50%	
1. Rosa multiflora	30	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2. Solidago	20	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide support	ing
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 mus	st
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 heigh	nt.
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, regardle	ess
	50	=Total Cover		of size, and woody plants less than 3.28 ft tall.	
Woody Vine Stratum (Plot size: 30 )				Woody vines – All woody vines greater than 3.28 ft	: in
1		. <u> </u>		height.	
2				Hydrophytic	
3				Vegetation	
4				Present? Yes No x	
		=Total Cover			
Remarks: (Include photo numbers here or on a sepa	rate sheet.)				

SOIL	
------	--

in a la a a l	Matrix		Redox			<u> </u>		
inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-9	10yr 4/3	100					Loamy/Clayey	
9-16	10yr 3/1							
	1091 0/1							
		·						
		•						
Type: C=Co	ncentration, D=Depl	etion, RM	=Reduced Matrix, M	1S=Mas	ked San	d Grains.	<sup>2</sup> Location: PL:	=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indicators for	· Problematic Hydric Soils <sup>3</sup> :
Histosol (	(A1)		Polyvalue Belo	w Surfa	ce (S8) (I	_RR R,	2 cm Muc	k (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		MLRA 149B)					irie Redox (A16) (LRR K, L, R)
Black His	· · ·		Thin Dark Surfa					ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	Layers (A5)	. (	Loamy Mucky N			<b>ΚΚ, L</b> )		Surface (S9) (LRR K, L)
	Below Dark Surface rk Surface (A12)	(ATT)	Loamy Gleyed Depleted Matrix		(FZ)			anese Masses (F12) ( <b>LRR K, L, R</b> Floodplain Soils (F19) ( <b>MLRA 149</b>
	ucky Mineral (S1)	•	Redox Dark Su	• •	6)			odic (TA6) (MLRA 144A, 145, 149
	leyed Matrix (S4)		Depleted Dark					nt Material (F21)
Sandy Re		•	Redox Depress					low Dark Surface (F22)
	Matrix (S6)	·	 Marl (F10) ( <b>LRI</b>		,			olain in Remarks)
Dark Surf								
_								
Indicators of	hydrophytic vegetat	ion and we	etland hydrology mu	ist be p	resent, ui	nless dist	urbed or problematic.	
	ayer (if observed):							
Туре:								
Depth (in	ches):						Hydric Soil Present	? Yes No x



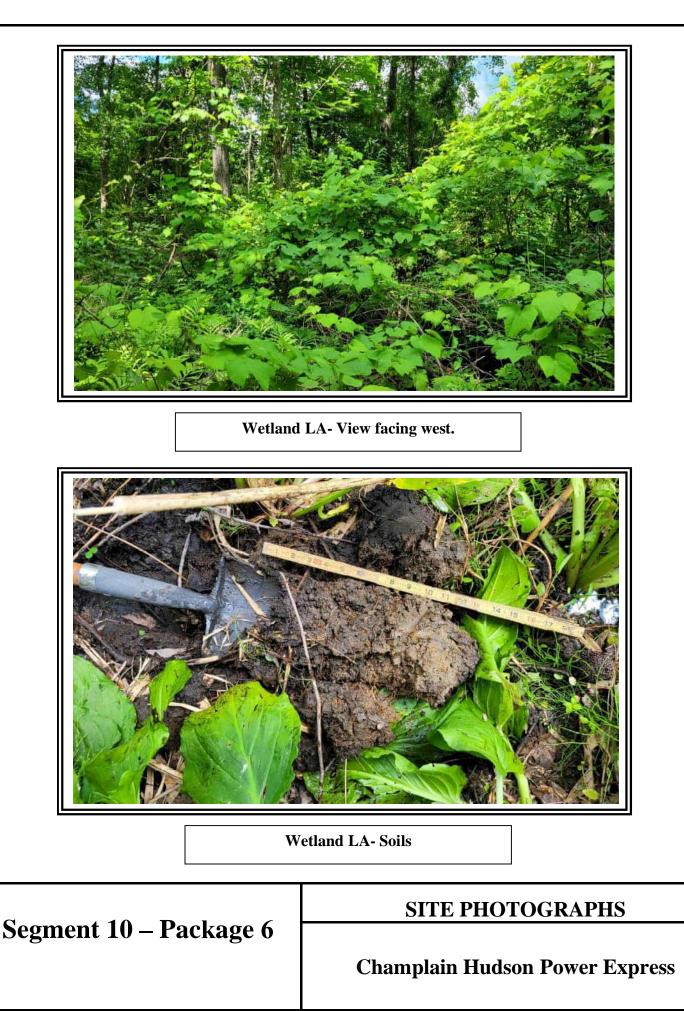
Project/Site: CHPE Package 6	Cit	y/County: Selkirk	Sampling Date: 11/19/21
Applicant/Owner: CHA			Sampling Point: LA-3
Investigator(s): Nick Dominic/Justin Williams		Section, Township, Range:	
Landform (hillside, terrace, etc.):	Local relie		
Subregion (LRR or MLRA): LRR R, MLRA 14	44B Lat: 42.52570	Long: <u>-73.80632</u>	Datum: NAD83
Soil Map Unit Name:		NWI classification	: <u>PFO</u>
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes X No (If no,	explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>N</u> , or Hydrol	ogy <u>N</u> significantly disturbed	? Are "Normal Circumstances" pres	sent? Yes X No
Are Vegetation N, Soil N, or Hydrol	ogy N naturally problematic?	(If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing sampli	ng point locations, transects, ir	mportant features, etc.
Hydric Soil Present?	Yes X No v	s the Sampled Area vithin a Wetland? Yes X f yes, optional Wetland Site ID:	No
Remarks: (Explain alternative procedures he Wetland LA	re or in a separate report.)		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of one is require	d; check all that apply)	Surface Soil Crac	ks (B6)
X Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns	s (B10)
V Link Mater Table (AQ)	Assertia Fauna (D40)	Mass Trins Lines /	(D4C)

X Surface water (AT)										
X High Water Table (A2)			_	Moss Trim Lines (B16)						
X Saturation (A3)			Marl	Deposits (B15)		_	Dry-Season Water Table (C2)			
Water Marks (B1)			Hydr	ogen Sulfide Odor (C1)	)	_	Crayfish Burrows (C8)			
Sediment Deposits (B2)			oots (C3)	Saturation Visible on A	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 Ae	rial Im	agery (l	B7) Othe	er (Explain in Remarks)		_	Microtopographic Reli	ief (D4)		
Sparsely Vegetated Con	ncave S	Surface	(B8)			_	FAC-Neutral Test (D5	5)		
Field Observations:										
Surface Water Present?	Yes	Х	No	Depth (inches):	2					
Water Table Present?	Yes	Х	No	Depth (inches):	7					
Saturation Present?	Yes	Х	No	Depth (inches):	2	Wetland	Hydrology Present?	Yes <u>X</u> No		
Saturation Present? (includes capillary fringe)	Yes	Х	No	Depth (inches):	2	Wetland	Hydrology Present?	Yes <u>X</u> No		
				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe)				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe)				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe)				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe) Describe Recorded Data (str				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe) Describe Recorded Data (str				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe) Describe Recorded Data (str				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe) Describe Recorded Data (str				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe) Describe Recorded Data (str				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe) Describe Recorded Data (str				,			, ,,	Yes <u>X</u> No		
(includes capillary fringe) Describe Recorded Data (str				,			, ,,	Yes <u>X</u> No		

Sampling Point: LA-3

	Absolute	Dominant	Indicator	Demission Technologie			
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test worksheet:			
<ol> <li>Fraxinus americana</li> <li>2.</li> </ol>	40	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 5 (A)			
3.							
4.		·		Total Number of Dominant Species Across All Strata: <u>6</u> (B)			
5				Percent of Dominant Species			
6				That Are OBL, FACW, or FAC: 83.3% (A/B)			
7		·		Prevalence Index worksheet:			
	40	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0			
1. Carpinus caroliniana	30	Yes	FAC	FACW species 100 x 2 = 200			
2. Rhamnus cathartica	20	Yes	FAC	FAC species 50 x 3 = 150			
3.				FACU species 40 x 4 = 160			
4.				UPL species $0 \times 5 = 0$			
5.				Column Totals: 190 (A) 510 (B)			
				Prevalence Index = B/A = 2.68			
7				Hydrophytic Vegetation Indicators:			
7	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5 )				X 2 - Dominance Test is >50%			
,	40	N	EA (0) A/				
1. Phragmites australis	40	Yes	FACW	X 3 - Prevalence Index is $≤3.0^{1}$			
2. Osmunda	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporti data in Remarks or on a separate sheet)			
3. <u>Onoclea sensibilis</u>	40	Yes	FACW				
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				Tree – 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			
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.			
Woody Vine Stratum (Plot size: 30 )		'		Woody vines – All woody vines 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 separation of the sep	ate sheet.)						

	ription: (Describe f	to the dep				tor or c	onfirm the absence o	of indicators.)
Depth	Matrix			x Featu		. 2		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10yr 2/2	95	10yr 5/6	5			Sandy	Prominent
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=	Reduced Matrix, I	MS=Mas	sked Sand	d Grains.	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:							or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)	_	Polyvalue Belo	ow Surfa	ice (S8) ( <b>I</b>	_RR R,	2 cm Mu	ıck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	oipedon (A2)		MLRA 149E	,				rairie Redox (A16) (LRR K, L, R)
Black Hi	( )	-	Thin Dark Sur					icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)	-	High Chroma					ie Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky			R K, L)		rk Surface (S9) (LRR K, L)
	d Below Dark Surface		Loamy Gleyed		(F2)			nganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	-	X Depleted Matr		-0)			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)	-	Redox Dark S	-	-			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Bleyed Matrix (S4) Redox (S5)	-	Depleted Dark Redox Depres					ent Material (F21) allow Dark Surface (F22)
	Matrix (S6)	-	Marl (F10) (LF	•	0)			ixplain in Remarks)
	rface (S7)	-		(( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( ( (				
<sup>3</sup> Indicators o	f hydrophytic vegetat	ion and we	tland hydrology m	ust be p	resent, ur	nless dist	urbed or problematic.	
	Layer (if observed):		, ,,					
Туре:								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No
Remarks:	,						-	
Remarks.								



Project/Site: CHPE	Package 6				City/County: Selkirk			Sampling Date:	11/19/21	
Applicant/Owner:	CHA					State:	NY	Sampling Point:	MA-2	
Investigator(s): Nick	Dominic/Justin Wi	liams			Section, Tov	wnship, Range:				
Landform (hillside, terrace, etc.):					_Local relief (concave, convex, none): Slope %: _					
Subregion (LRR or M	LRA): LRR R, M	LRA 144B L	at: 42.52496		Long:	-73.80664		Datum:	NAD83	
Soil Map Unit Name:NWI classification: PFO										
Are climatic / hydrolog	gic conditions on th	ne site typical	for this time of	year?	Yes X	No	(lf no, e	explain in Remarks	i.)	
Are Vegetation No	Are Vegetation No , Soil N , or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No									
Are Vegetation N	, Soil <u>N</u> , or	Hydrology	N_naturally p	oroblema	tic? (If needed	l, explain any an	swers ir	n Remarks.)		
SUMMARY OF F	INDINGS – At	tach site m	ap showin	ig sam	pling point locat	ions, transe	cts, in	portant featur	es, etc.	
Hydrophytic Vegetat	ion Present?	Yes	X No		Is the Sampled Ar	rea				
Hydric Soil Present?		Yes		_	within a Wetland?	Yes	Х	No		
Wetland Hydrology F	Present?	Yes	XNo	_	If yes, optional We	tland Site ID:				
Remarks: (Explain a Wetland MA	alternative procedu	res here or in	a separate rep	port.)						

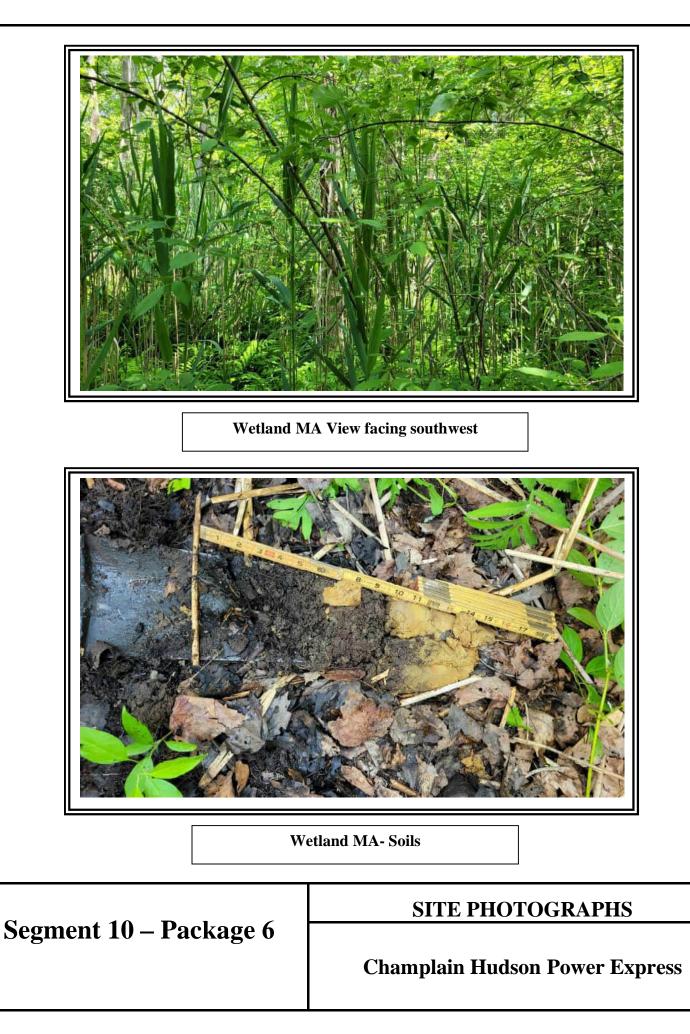
#### HYDROLOGY

Wetland Hydrology Indicat	ors.						Secondary Indicators (minimu	im of two required)
Primary Indicators (minimum		is rec	wired: check	all that apply)			Surface Soil Cracks (B6)	<u>in or two requiredy</u>
X Surface Water (A1)		10100		ter-Stained Leaves (B	9)		Drainage Patterns (B10)	
X High Water Table (A2)				atic Fauna (B13)	,		Moss Trim Lines (B16)	
X Saturation (A3)			·	l Deposits (B15)			Dry-Season Water Table	(C2)
Water Marks (B1)				Irogen Sulfide Odor (0	<b>~</b> 1)		Crayfish Burrows (C8)	(02)
Sediment Deposits (B2)				dized Rhizospheres o	'	oots (C3)	Saturation Visible on Aeri	al Imagery (C9)
Drift Deposits (B3)				sence of Reduced Iro	-	0013 (00)	Stunted or Stressed Plant	
Algal Mat or Crust (B4)				cent Iron Reduction in		e (C6)	Geomorphic Position (D2)	· · ·
Iron Deposits (B5)				n Muck Surface (C7)	Tilleu Soli	s (CO)	Shallow Aquitard (D3)	)
· · · · /	rial Imr			· · /	(0)		Microtopographic Relief (I	74)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)						FAC-Neutral Test (D5)	D4)	
	cave 5	unace	) (Бо)			1		
Field Observations:								
Surface Water Present?	Yes_		No	Depth (inches):	5			
Water Table Present?	Yes	X	No	Depth (inches):	4			
Saturation Present?	Yes	X	No	Depth (inches):	0	Wetlan	nd Hydrology Present?	Yes X No
(includes capillary fringe)								
Describe Recorded Data (str	eam ga	auge, I	monitoring we	ell, aerial photos, prev	vious inspe	ections), if	available:	
Remarks:								

Sampling Point: MA-2

<u>Tree Stratum</u> (Plot size: 30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus bicolor	40	Yes	FACW	
2.				Number of Dominant Species         That Are OBL, FACW, or FAC:         6         (A)
3		·		Total Number of Dominant Species Across All Strata: 6 (B)
5.		·		
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)
7				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0
1. Carpinus caroliniana	30	Yes	FAC	FACW species 140 x 2 = 280
2. Rhamnus cathartica	20	Yes	FAC	FAC species 50 x 3 = 150
3				FACU species0 x 4 =0
4.				UPL species $0 \times 5 = 0$
5.				Column Totals: 190 (A) 430 (B)
6.				Prevalence Index = B/A = 2.26
7.		·		Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)		•		X 2 - Dominance Test is >50%
Phragmites australis	40	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Osmunda	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
3. Onoclea sensibilis	40	Yes	FACW	data in Remarks or on a separate sheet)
4.		100		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5		·		
6.		·		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7		·		Definitions of Vegetation Strata:
Q				
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 herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 )				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	rate sheet.)	•		1
· · · · · · · · · · · · · · · · · · ·	<b>-</b> )			

Depth       Matrix       Redox Features         (inches)       Color (moist)       %       Color (moist)       %       Toxture       Remarks         0-16       10yr 2/2       80       10yr 5/6       20       Sandy       Prominent			to the dep				tor or co	onfirm the absence of in	dicators.)
0-16       10yr 2/2       80       10yr 5/6       20       Sandy       Prominent	Depth (inches)	Matrix Color (moist)	%				$\log^2$	Toyturo	Remarks
Image: Sufface (A1)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Image: Sufface (A2)       Polyvalue Below Surface (S8) (LRR R, MLRA 149B)         Histic Epideron (A2)       MIRA 149B)         Histic Epideron (A2)       MIRA 149B)         Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)         Stratified Layers (A5)       Loamy Muck V Mineral (F1) (LRR K, L)         Depleted Below Dark Surface (A11)       Loamy Muck V Mineral (F1)         Depleted Below Dark Surface (A12)       X Depleted Dark Surface (F6)         Sandy Mucky Mineral (S1)       Redox Depressions (F8)         Sandy Gleyed Matrix (S6)       Mart (F10) (LRR K, L)         Dark Surface (S7)       Redox Depressions (F8)         * Joinped Matrix (S6)       Mart (F10) (LRR K, L)         Dark Surface (S7)       Other (Explain in Remarks)         * Joinped Matrix (S6)       Mart (F10) (LRR K, L)         Dark Surface (S7)       Redox Depressions (F8)         * Very Shallow Dark Surface (S7)       Other (Explain in Remarks)         * Jaripee Image: Surface (S7)       * Merear (S7)         * Indicators of hydrophylic vegetation and welland hydrology must be present, unless disturbed or problematic.		·				туре			
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1499)         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, 5)         Sandy Mucky Mineral (S1)       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) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Poblematic.	0-10	10yl 2/2		1091 5/6				Sanuy	Fromment
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1499)         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, 5)         Sandy Mucky Mineral (S1)       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) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.       Poblematic.									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149         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)         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 1445, 145, 5)         Sandy Mucky Mineral (S1)       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.			<u> </u>		. <u> </u>		<u> </u>		
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149         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)         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 1445, 145, 5)         Sandy Mucky Mineral (S1)       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.									
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Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149         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)         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 1445, 145, 5)         Sandy Mucky Mineral (S1)       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.					·				
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Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :									
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Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149         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)         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 1445, 145, 5)         Sandy Mucky Mineral (S1)       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.									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149         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)         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 1445, 145, 5)         Sandy Mucky Mineral (S1)       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.									
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :         Histosol (A1)       Polyvalue Below Surface (S8) (LRR R,       2 cm Muck (A10) (LRR K, L, MLRA 149         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)         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 1445, 145, 5)         Sandy Mucky Mineral (S1)       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.			<u> </u>						
Hydric Soil Indicators:       Indicators for Problematic Hydric Soils <sup>3</sup> :	1							2	
Histosol (A1)       Polyvalue Below Surface (S8) (LRR R, Histic Epipedon (A2)       2 cm Muck (A10) (LRR K, L, MLRA 1499)         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)         Thick Dark Surface (A12)       X Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA 144A, 145, 5)         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 5)         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)       Thin Remarks)       Other (Explain in Remarks)         ************************************			etion, RM	-Reduced Matrix, I	MS=Mas	ked Sand	d Grains.		
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 (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, 145, 142, 145, 142, 143, 144, 144, 144, 144, 144, 144, 144	-			Polyvalue Belo	ow Surfa	ce (S8) (I	RR R.		-
Black Histic (A3)       Thin Dark Surface (S9) (LRR R, MLRA 149B)       5 cm Mucky Peat or Peat (S3) (LRR K, I, High Chroma Sands (S11) (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 Sandy Mucky Mineral (S1)         Sandy Gleyed Matrix (S4)       Depleted Dark Surface (F7)       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)       Thin Case (S7)       Stratified Deserved):         Type:       Type:       Thin Park Surface (S7)       Thin Dark Surface (S7)			-			00)(	,		
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         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145, 144, 145, 145, 144, 145, 145					'	) (LRR R,	MLRA 1		
Depleted Below Dark Surface (A11)       Loamy Gleyed Matrix (F2)       Iron-Manganese Masses (F12) (LRR K,         Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 145, 145, 145, 145, 145, 145, 145	Hydroge	en Sulfide (A4)	-						
Thick Dark Surface (A12)       X       Depleted Matrix (F3)       Piedmont Floodplain Soils (F19) (MLRA         Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, 5)         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.         Restrictive Layer (if observed):         Type:			-					Thin Dark S	Surface (S9) (LRR K, L)
Sandy Mucky Mineral (S1)       Redox Dark Surface (F6)       Mesic Spodic (TA6) (MLRA 144A, 145, *         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.         Restrictive Layer (if observed):       Type:	Deplete	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iron-Manga	nese Masses (F12) ( <b>LRR K, L, I</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)       3       Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.         Restrictive Layer (if observed):         Type:	Thick Da	ark Surface (A12)	_	X Depleted Matr	ix (F3)			Piedmont F	loodplain Soils (F19) ( <b>MLRA 14</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.         Restrictive Layer (if observed): Type:	Sandy N	/lucky Mineral (S1)	_	Redox Dark S	urface (F	-6)		Mesic Spod	ic (TA6) ( <b>MLRA 144A, 145, 14</b> 9
?       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.         Restrictive Layer (if observed):         Type:	Sandy G	Gleyed Matrix (S4)	_	Depleted Dark	Surface	e (F7)		Red Parent	Material (F21)
Dark Surface (S7) <sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type:	Sandy F	Redox (S5)	-	Redox Depres	sions (F	8)			. ,
<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.  Restrictive Layer (if observed): Type:		. ,	-	Marl (F10) (LR	RRK,L)			Other (Expla	ain in Remarks)
Restrictive Layer (if observed):       Type:	Dark Su	ırface (S7)							
Restrictive Layer (if observed):       Type:	<sup>3</sup> Indicators c	of hydrophytic vegetat	ion and we	atland bydrology m	ust he n	resent ur	nless dist	urbed or problematic	
		• • • •		aland nydrology m	ust be p	resent, u	11635 0151		
Depth (inches):         Hydric Soil Present?         Yes X         No	Туре:	<b>,</b> ,							
	Depth (i	nches):						Hydric Soil Present?	Yes <u>X</u> No
Remarks:	Remarks:								



Project/Site: CHPE		City/County: Selkirk/Albany Sampling Date: 6.13.22					
Applicant/Owner: TDI		State: NY	Sampling Point: MA Wet				
Investigator(s): John Greaves & Chris Eir	ıstein	Section, Township, Range:					
Landform (hillside, terrace, etc.): Depre	ssion Local r	elief (concave, convex, none): <u>Concave</u>	Slope %: 2				
Subregion (LRR or MLRA): LRR R	Lat: <u>42.524103</u>	Long: -73.806900	Datum: NAD83				
Soil Map Unit Name: RhA/RhB - Rhinebe	eck silty clay loam	NWI classification	: PEM1				
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 Hy	/drology significantly disturb	ed? Are "Normal Circumstances" pres	sent? Yes X No				
Are Vegetation, Soil, or Hy	, Soil, or Hydrologynaturally problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Atta	ch site map showing sam	oling 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 procedure	s here or in a separate report.)						
Common reed marsh							

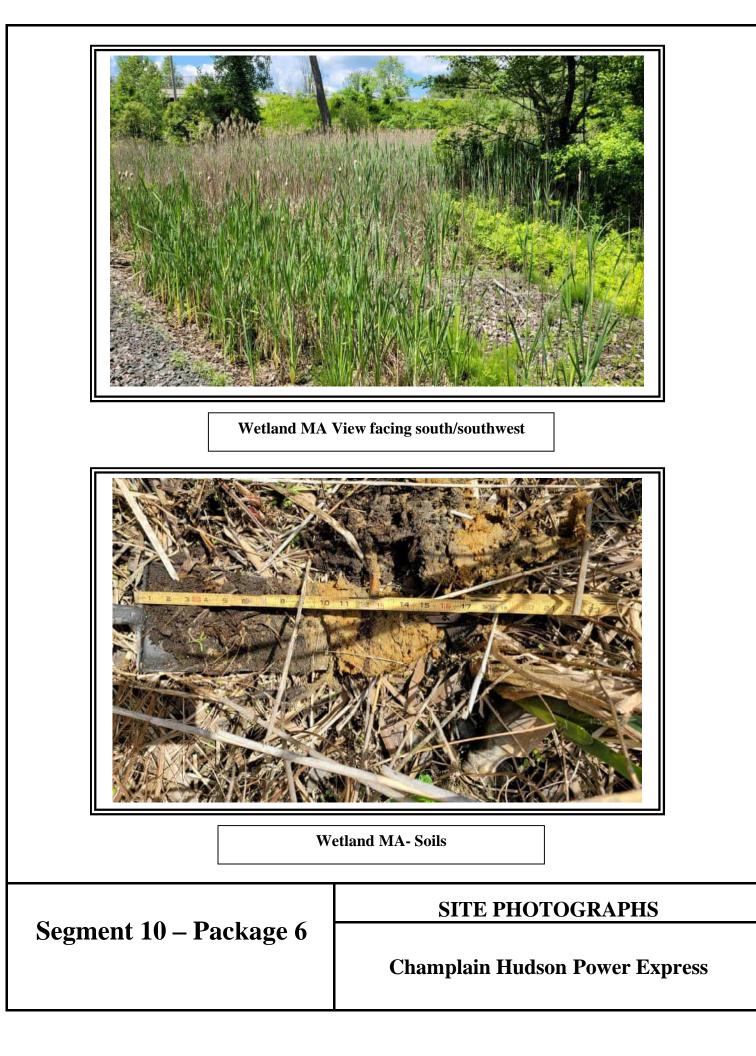
#### HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)	
Primary Indicators (minimum of one is requir	ed; 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)	
X Saturation (A3)	Dry-Season Water Table (C2)			
Water Marks (B1)	Crayfish Burrows (C8)			
X Sediment Deposits (B2)	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)	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 X	No Depth (inches): 0	Wetlan	d Hydrology Present? Yes X No	
Saturation Present? Yes X (includes capillary fringe)	No Depth (inches):0	Wetlan	d Hydrology Present? Yes <u>×</u> No	
(includes capillary fringe)				
(includes capillary fringe)				
(includes capillary fringe)				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
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(includes capillary fringe) Describe Recorded Data (stream gauge, mo				
(includes capillary fringe) Describe Recorded Data (stream gauge, mo				

Sampling Point: MA Wet

<u>Tree Stratum</u> (Plot size: <u>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				Total Number of Dominant         Species Across All Strata:       2         (B)
5				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)				OBL species 38 x 1 =38
1				FACW species 62 x 2 = 124
2				FAC species x 3 =
3				FACU species x 4 =
4				UPL species x 5 =
5				Column Totals: 100 (A) 162 (B)
6				Prevalence Index = B/A =1.62
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. <i>Phragmites australis</i>	54	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2Typha angustifolia	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Lythrum salicaria	15	No	OBL	data in Remarks or on a separate sheet)
4. Bidens frondosa	8	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<ol> <li>Alisma plantago-aquatica</li> <li>6.</li> </ol>	3	No	OBL	<sup>1</sup> 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	100	=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> ) 1.				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
2.				
3.				Hydrophytic Manatation
4.				Vegetation Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	cription: (Describe	to the dep	oth needed to docu	ument th	ne indica	tor or co	onfirm the absence of i	ndicators.)	
Depth									
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 2/1	100					Muck		
8-20	10YR 4/1		7.5YR 5/8	30	C		Sandy	Prominent redox concentrations	
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	l Grains.		=Pore Lining, M=Matrix.	
Hydric Soil	Indicators:						Indicators for	Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Belc	w Surfac	ce (S8) (I	LRR R,	2 cm Mucl	k (A10) ( <b>LRR K, L, MLRA 149B</b> )	
X Histic Ep	oipedon (A2)		MLRA 149B	)			Coast Prai	irie Redox (A16) ( <b>LRR K, L, R</b> )	
X Black Hi	stic (A3)		Thin Dark Surf	ace (S9)	(LRR R	, MLRA 1	1 <b>49B</b> )5 cm Mucl	ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	511) ( <b>LRF</b>	R K, L)	Polyvalue	Below Surface (S8) (LRR K, L)	
Stratified	d Layers (A5)		Loamy Mucky	Mineral (	(F1) ( <b>LR</b>	R K, L)	Thin Dark	Surface (S9) (LRR K, L)	
X Depleted	d Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (I	F2)		Iron-Mang	anese Masses (F12) ( <b>LRR K, L, R</b> )	
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmont	Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Spo	odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
Sandy G	Bleyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parer	nt Material (F21)	
	Redox (S5)		Redox Depres	sions (F8	3)		Very Shallow Dark Surface (F22)		
Stripped	Matrix (S6)		 Marl (F10) ( <b>LR</b>	<b>RK.L</b> )	,		Other (Explain in Remarks)		
I — · · ·	rface (S7)			, _,					
<sup>3</sup> Indicators o	f hydrophytic yccotol	ion and w	atland bydrology m	ict ho pr	ocont ur	loce dict	urbad or problematic		
	Layer (if observed):		etiand hydrology me	ust be pr	esent, ui		urbed or problematic.		
Туре:	<u> </u>								
Depth (ir	nches):						Hydric Soil Present	? Yes <u>X</u> No	
	m is revised from Nc 2015 Errata. (http://v							S Field Indicators of Hydric Soils,	



Project/Site: CHPE Package 6	City/County: Selkirk Sampling Date: 11/18/2021
Applicant/Owner: CHA	State: NY Sampling Point: MA-2 LA-1 UPL
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.52517	Long:73.80651 Datum:
Soil Map Unit Name:	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significant	y disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally p	roblematic? (If needed, explain any answers in Remarks.)

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

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

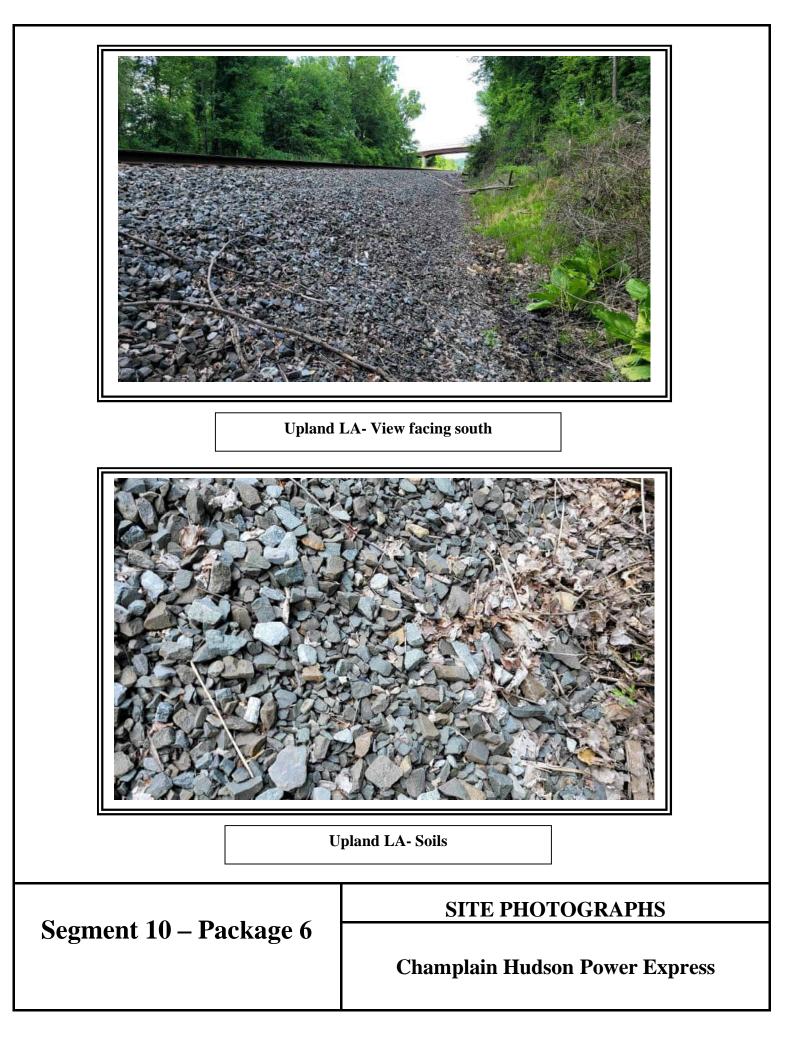
Wetland Hydrology Indicators:		Se	condary Indicators (min	imum of two required)	
Primary Indicators (minimum of one		Surface Soil Cracks (E	36)		
Surface Water (A1)		Drainage Patterns (B1	0)		
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)	)	
Saturation (A3)					
Water Marks (B1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)	ots (C3)	Saturation Visible on A	Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron (C4)		Stunted or Stressed P	lants (D1)	
Algal Mat or Crust (B4)	Recent Iron Reduction in Tilled Soil	(C6)	Geomorphic Position (	(D2)	
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D3)		
Inundation Visible on Aerial Im	agery (B7) Other (Explain in Remarks)		Microtopographic Relie	ef (D4)	
Sparsely Vegetated Concave S	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 H	vdrology Present?	Yes No X	
(includes capillary fringe)					
	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		
Describe Recorded Data (stream g	auge, monitoring well, aerial photos, previous inspe	ctions), if avai	lable:		

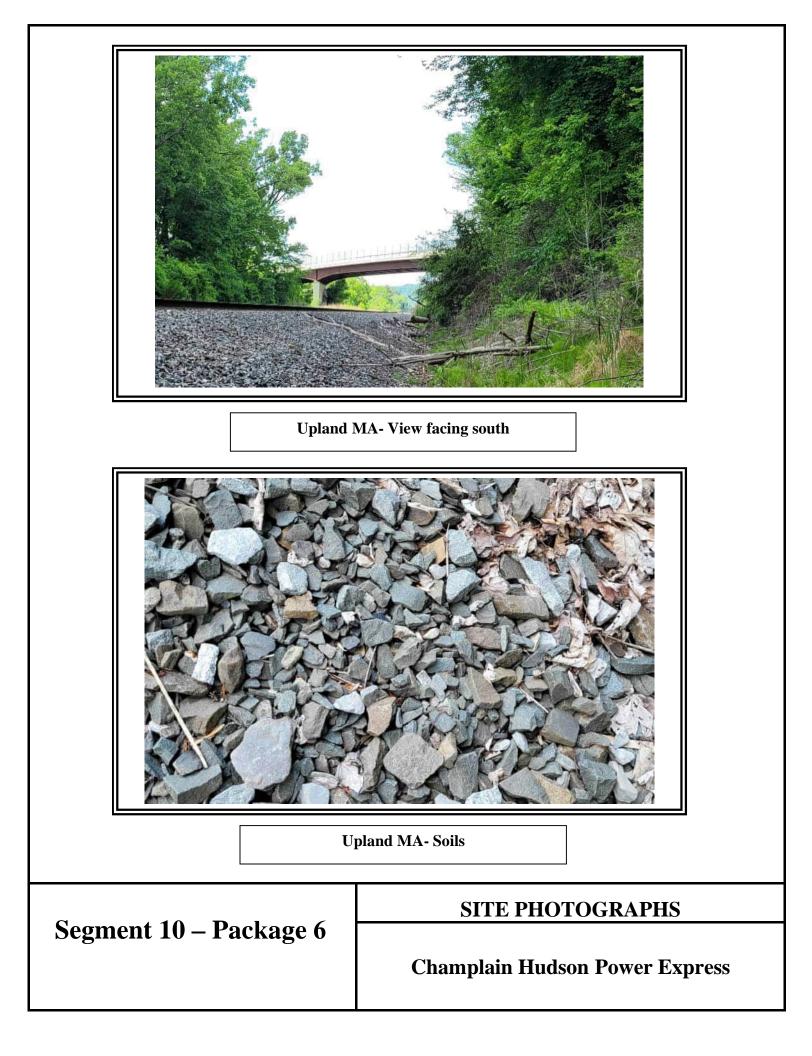
Sampling Point: MA-2 LA-1 UPL

Trans Obschurz (Distriction 20 )	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test worksheet:
Quercus rubra     Juniperus virginiana	<u> </u>	Yes	FACU	Number of Dominant Species
<ol> <li>Juniperus virginiana</li> <li>3.</li> </ol>	20	Yes	FACU	That Are OBL, FACW, or FAC:(A)
4.		·		Total Number of DominantSpecies Across All Strata:55(B)
5.		·		Species Across All Strata. 5 (b)
				Percent of Dominant Species That Are OBL, FACW, or FAC: 20.0% (A/B)
7.				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				$\begin{array}{c c} \hline \\ \hline $
1. Lonicera	20	Yes	FACU	FACW species $0 \times 2 = 0$
2.				FAC species 30 x 3 = 90
3.				FACU species 120 x 4 = 480
4.				UPL species 0 x 5 = 0
5.				Column Totals: 150 (A) 570 (B)
6		·		$\frac{1}{2}$ Prevalence Index = B/A = 3.80
7.				Hydrophytic Vegetation Indicators:
	20	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Rosa multiflora	20	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago	30	Yes	FAC	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
	50	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 )				Woody vines – 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 sepa	arate sheet.)			

SOIL	
------	--

(inches)	Matrix			x Featur				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-6	10yr 3/1	100					Loamy/Clayey	
6-14	10yr 5/2							
		······						
		·						
<u></u>								
	ncentration, D=Deple	tion, RM	=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.		Pore Lining, M=Matrix.
Hydric Soil Ir					(20) (			roblematic Hydric Soils <sup>3</sup> :
Histosol (		-	Polyvalue Belo		ce (S8) (I	_RR R,		A10) ( <b>LRR K, L, MLRA 149B</b> )
Black His	pedon (A2)		MLRA 149B Thin Dark Surfa	,				e Redox (A16) (L <b>RR K, L, R</b> ) Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)	-	High Chroma S					elow Surface (S8) (LRR K, L)
	Layers (A5)	-	Loamy Mucky I					urface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed			, _,		nese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)		Depleted Matrix		. ,			oodplain Soils (F19) (MLRA 1498
Sandy Mu	ucky Mineral (S1)	-	Redox Dark Su	ırface (F	6)		Mesic Spod	c (TA6) ( <b>MLRA 144A, 145, 149B</b>
Sandy Gl	eyed Matrix (S4)	-	Depleted Dark	Surface	(F7)		Red Parent	Material (F21)
Sandy Re		-	Redox Depress	•	8)			v Dark Surface (F22)
	Matrix (S6)	-	Marl (F10) (LR	<b>R K</b> , L)			Other (Expla	ain in Remarks)
Dark Surf	face (S7)							
<sup>3</sup> Indiantara of	hydrophytic ycantatic	on and w	atland bydrology m	ict ho n	rooont uu	logo diot	urbed or problematic.	
	ayer (if observed):		stand hydrology me	ist be p	iesent, ui			
Type:	ayer (il observed).							
Depth (ind	ches).						Hydric Soil Present?	Yes No x
Deput (int								





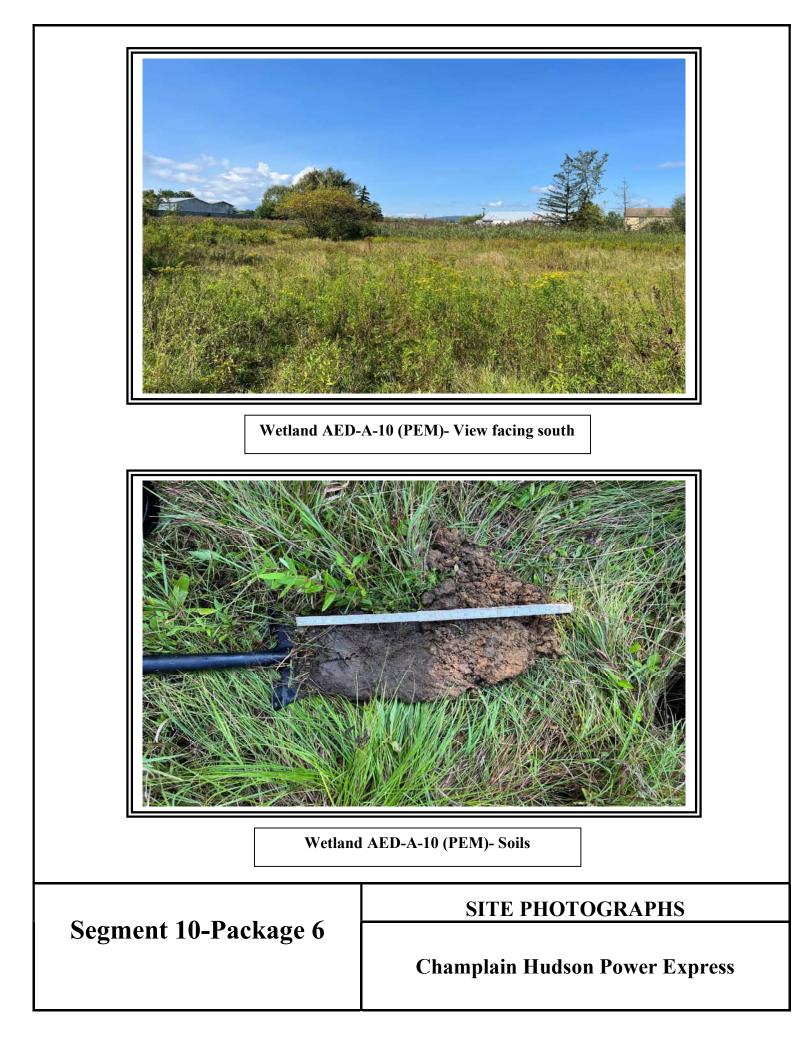
U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and See ERDC/EL TR-12-1; the proponent agency is CE	OMB Control #: 0710-0024, Exp: 11/30/2024 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)						
Applicant/Owner: TDI Investigator(s): N. Frazer & C. Einstein	City/County: <u>Coeymans</u> Section, Towns elief (concave, convex, I	State: NY Sampling Point: <u>AED-A-10 wet</u>					
Subregion (LRR or MLRA):       LRR R       Lat: 42.524214         Soil Map Unit Name:       RhA-Rhinebeck silty clay loam	Long: <u>-7</u>						
Are climatic / hydrologic conditions on the site typical for this time of year?       Yes x       No (If no, explain in Remarks.)         Are Vegetation       , Soil       , or Hydrology       significantly disturbed?       Are "Normal Circumstances" present?       Yes x       No         Are Vegetation       , Soil       , or Hydrology       naturally problematic?       (If needed, explain any answers in Remarks.)         SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.							
Hydrophytic Vegetation Present?       Yes       X       No         Hydric Soil Present?       Yes       X       No         Wetland Hydrology Present?       Yes       X       No         Remarks: (Explain alternative procedures here or in a separate report.) shallow emergent marsh	Is the Sampled Area within a Wetland? If yes, optional Wetla	Yes <u>X</u> No					
HYDROLOGY							
Wetland Hydrology Indicators:	S	econdary Indicators (minimum of two required)					
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil Cracks (B6)					
Surface Water (A1)Water-Stained Leaves (B		Drainage Patterns (B10)					
High Water Table (A2) Aquatic Fauna (B13)	_	Moss Trim Lines (B16)					
Saturation (A3)       Marl Deposits (B15)         Water Marks (B1)       Hydrogen Sulfide Odor (0		Dry-Season Water Table (C2)					
Sediment Deposits (B2) X Oxidized Rhizospheres o		Crayfish Burrows (C8) Roots (C3) Saturation Visible on Aerial Imagery (C9)					
Drift Deposits (B3) Presence of Reduced Iro	• · · –	Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)		X Geomorphic Position (D2)					
Iron Deposits (B5) Thin Muck Surface (C7)	· · · <u> </u>	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark	(S)	Microtopographic Relief (D4)					
Sparsely Vegetated Concave Surface (B8)	<u>&gt;</u>	<pre>FAC-Neutral Test (D5)</pre>					
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):	10 Wetland I						
Saturation Present? Yes <u>x</u> No Depth (inches): _ (includes capillary fringe)	10 Wetland H	lydrology Present? Yes X No					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if av	ailable:					
	1 <i>//</i>						
Remarks:							

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Sampling Point: AED-A-10 wet

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:2 (A)		
3 4				Total Number of Dominant Species Across All Strata: <u>2</u> (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' )				OBL species11 x 1 =11		
1				FACW species 98 x 2 = 196		
2.				FAC species 1 x 3 = 3		
3.				FACU species 1 x 4 = 4		
4.				UPL species 0 x 5 = 0		
5.				Column Totals: 111 (A) 214 (B)		
6				Prevalence Index = $B/A = 1.93$		
7.				Hydrophytic Vegetation Indicators:		
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5')				$\frac{X}{2}$ - Dominance Test is >50%		
1. Agrostis stolonifera	55	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Agalinis tenuifolia	10	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Asclepias incarnata	5	No	OBL	data in Remarks or on a separate sheet)		
4. Carex tribuloides	20	Yes	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5. Persicaria sagittata	5	No	OBL			
6. Agrostis stolonifera	8	No	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.		
7. Fraxinus pennsylvanica	5	No	FACW	Definitions of Vegetation Strata:		
8. Lonicera tatarica	1	No	FACU	_		
9. Viburnum recognitum	1	No	FAC	<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.		
10. Scirpus atrovirens	1	No	OBL	diameter at breast neight (DDF), 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				Herb – All herbaceous (non-woody) plants, regardless		
	111	=Total Cover		of size, and woody plants less than 3.28 ft tall.		
Woody Vine Stratum         (Plot size:30')           1.				Woody vines – All woody vines greater than 3.28 ft in height.		
2.						
3.				Hydrophytic		
4.				Vegetation Present? Yes X No		
···		=Total Cover				
Remarks: (Include photo numbers here or on a separ	ale sneet.)					

Profile Desc	cription: (Describe	to the dep	oth needed to docu	ument ti	he indica	tor or co	onfirm the absence o	f indicators.)		
Depth	Matrix		Redo	x Featur	res					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-5	10YR 3/1	85	5YR 4/4	15	C	PL/M	Sandy	Prominent redox concentrations		
5-10	10YR 4/1	85	10YR 5/4	15	C	M	Sandy	Distinct redox concentrations		
10-16	10YR 5/3	60	10YR 5/6	40	C	<u>M</u>	Sandy	Distinct redox concentrations		
				_						
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	/IS=Mas	ked Sand	d Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.		
Hydric Soil							Indicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol	(A1)		Dark Surface (	S7)			2 cm Muck (A10) (LRR K, L, MLRA 149B)			
Histic Ep	pipedon (A2)		Polyvalue Belo	ow Surfa	ce (S8) (	LRR R,	Coast Prairie Redox (A16) (LRR K, L, R)			
	istic (A3)		MLRA 149B	<i>'</i>			Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B)			
Hydroge	en Sulfide (A4)		Thin Dark Surf		-					
	d Layers (A5)		High Chroma S							
	d Below Dark Surface	e (A11)	Loamy Mucky			R K, L)				
	ark Surface (A12)		Loamy Gleyed		F2)					
	podic (A17)		Depleted Matri				Red Parent Material (F21) (outside MLRA 145)			
(MLRA 144A, 145, 149B) Redox Dark S							Very Shallow Dark Surface (F22)			
	Aucky Mineral (S1)		Depleted Dark Surface (F7)				Other (E	Explain in Remarks)		
	Bleyed Matrix (S4)			Redox Depressions (F8) Marl (F10) ( <b>LRR K, L</b> )				<sup>3</sup> Indicators of hydrophytic vegetation and		
				aterial (F21) <b>(MLRA 145)</b>			wetland hydrology must be present,			
	i Matrix (30)			ateriai (i		(A 145)		s disturbed or problematic.		
Restrictive	Layer (if observed):									
Туре:	nor	ne								
Depth (ii	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No		
Remarks:							<u> </u>			
Remarks:										



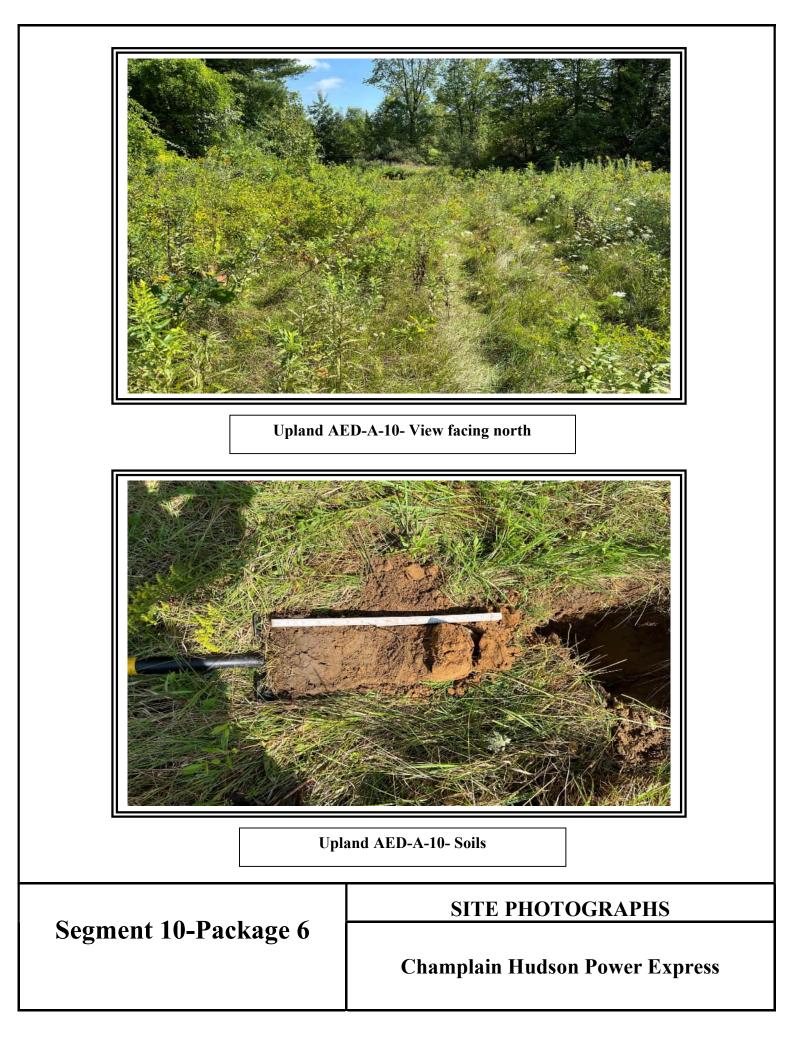
U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral an See ERDC/EL TR-12-1; the proponent agency is Cl	-	OMB Control #: 0710-0024, Exp: 11/3 Requirement Control Symbol EXE (Authority: AR 335-15, paragraph	MPT:
Project/Site: CHPE - Segment 10 - Package 6	City/County: Coeymans/A	Ibany Sampling Date: 8/	/30/23
Applicant/Owner: TDI			AED-A-10 upl
Investigator(s): N. Frazer & C. Einstein	Section, Townshi	p, Range:	
	relief (concave, convex, no		6· 0
Subregion (LRR or MLRA): LRR R Lat: 42.524336	Long: -73.8		
Soil Map Unit Name: RhA- Rhinebeck silty clay loam		NWI classification: n/a	
Are climatic / hydrologic conditions on the site typical for this time of year?		No (If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrologysignificantly distur		rcumstances" present? Yes <u>x</u> N	NO
Are Vegetation, Soil, or Hydrologynaturally problema		lain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations	s, transects, important feature	s, etc.
Hydrophytic Vegetation Present?       Yes       No       X         Hydric Soil Present?       Yes       No       X         Wetland Hydrology Present?       Yes       No       X         Remarks:       (Explain alternative procedures here or in a separate report.)	Is the Sampled Area within a Wetland? If yes, optional Wetland	Yes <u>No X</u> Site ID:	
HYDROLOGY			
Wetland Hydrology Indicators:	Sec	ondary Indicators (minimum of two requi	ired)
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)	
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 (		Crayfish Burrows (C8)	
Sediment Deposits (B2)Oxidized Rhizospheres @	· · · <u> </u>	Saturation Visible on Aerial Imagery (C9	9)
Drift Deposits (B3) Presence of Reduced Ir		Stunted or Stressed Plants (D1)	
Algal Mat or Crust (B4) Recent Iron Reduction in		Geomorphic Position (D2)	
Iron Deposits (B5) Thin Muck Surface (C7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar		Shallow Aquitard (D3) 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):		drology Present? Yes N	lo X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if availa	able:	
Remarks:			

Sampling Point: AED-A-10 upl

Trop Stratum (Plot size: 30')	Absolute	Dominant	Indicator	Dominanco Tost workshoot:
<u>Tree Stratum</u> (Plot size: <u>30'</u> ) 1.	% Cover	Species?	Status	Dominance Test worksheet:
2.				Number of Dominant Species           That Are OBL, FACW, or FAC:         1         (A)
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>33.3%</u> (A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species x 1 =
1				FACW species 70 x 2 = 140
2.				FAC species 0 x 3 = 0
3				FACU species 39 x 4 = 156
4.		·		UPL species 15 x 5 = 75
5.				Column Totals: 124 (A) 371 (B)
6.				Prevalence Index = B/A = 2.99
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')				2 - Dominance Test is >50%
1. Daucus carota	10	No	UPL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Centaurea stoebe	5	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Solidago canadensis	15	No	FACU	data in Remarks or on a separate sheet)
4. Rosa multiflora	2	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Oxalis stricta	2	No	FACU	
6. Agrostis stolonifera	70	Yes	FACW	<sup>1</sup> 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				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
	104	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30')				Woody vines – All woody vines greater than 3.28 ft in
1. Celastrus orbiculatus	15	Yes	FACU	height.
2. Parthenocissus quinquefolia	5	Yes	FACU	
3				Hydrophytic Vegetation
4				Present? Yes No X
	20	=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			

# SOIL

	cription: (Describe	to the de				tor or c	onfirm the absence	of indicate	ors.)	
Depth	Matrix			x Featur		2	_		_	
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	rks
0-10	10YR 4/2	100					Sandy			
10-16	10YR 4/3		10YR 5/6	40	<u>С</u>		Sandy	Dist	inct redox co	oncentrations
		·								
		·								
$\frac{1}{1}$	oncentration, D=Dep	letion RM	-Reduced Matrix			Grains	<sup>2</sup> l ocation:	PI -Pore I	ining, M=Ma	atrix
Hydric Soil				10-11183	Keu Gano				ematic Hydr	
Histosol			Dark Surface (	(S7)					-	MLRA 149B)
	oipedon (A2)		Polyvalue Belo		ce (S8) (I	LRR R,			lox (A16) ( <b>L</b> l	
	stic (A3)		 MLRA 149B		. , .					) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf	,	) (LRR R			-		) (LRR K, L)
	d Layers (A5)		High Chroma		-				e (S9) ( <b>LRR</b>	
	d Below Dark Surfac	e (A11)	Loamy Mucky	-						2) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	- ( )	Loamy Gleyed			,,		-	-	19) ( <b>MLRA 149B</b> )
	podic (A17)		Depleted Matri		)				-	utside MLRA 145
	A 144A, 145, 149B)		Redox Dark Si		6)				k Surface (F	
-	lucky Mineral (S1)		Depleted Dark		-			(Explain in	-	
	Gleyed Matrix (S4)		Redox Depres						i temanoj	
	Redox (S5)		Marl (F10) (LR		5)		<sup>3</sup> Indiac	tora of hud	rophytic veg	latation and
					04) (BAL F			-		
Supped	Matrix (S6)		Red Parent Ma	ateriai (F	21) (IVI LF	(A 145)			ogy must be d or problem	
Restrictive I	Layer (if observed):	:								
Type:	nor	ne								
Depth (ir	nches):						Hydric Soil Pres	ent?	Yes	<u>No X</u>
Remarks:							•			
Remarks:										



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	
Project/Site: CHPE - Segment 10 - Package 6 City/County: Applicant/Owner: TDI	Coeymans/Albany Sampling Date: <u>8/30/23</u> State: NY Sampling Point: AED-A-10 we
Investigator(s): N. Frazer & C. Einstein Sect	ion, Township, Range:
	, convex, none): concave Slope %: 0
	Long: -73.807667 Datum: WGS84
Soil Map Unit Name: RhA- Rhinebeck silty clay loam	NWI classification: PFO
i	
	s x No (If no, explain in Remarks.)
	e "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 poin	t locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Is the Sam	pled Area
Hydric Soil Present? Yes X No within a W	-
Wetland Hydrology Present?     Yes X     No     If yes, option	onal Wetland Site ID:
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
X     Surface Water (A1)     Water-Stained Leaves (B9)       High Water Table (A2)     Aquatic Fauna (B13)	Drainage Patterns (B10) 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) X Oxidized Rhizospheres on Living Root	
Drift Deposits (B3) Presence of Reduced Iron (C4)	Stunted or Stressed Plants (D1)
Algal Mat or Crust (B4)Recent Iron Reduction in Tilled Soils (	
Iron Deposits (B5) Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Sparsely Vegetated Concave Surface (B8)	Microtopographic Relief (D4) X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes x No Depth (inches):	
Water Table Present?     Yes     x     No     Depth (inches):	
	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspect	ons), if available:
Remarks:	

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Sampling Point: AED-A-10 wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	50	Yes	FACW	Number of Dominant Chaoica
2. Populus tremuloides	20	Yes	FACU	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:5(A)
3. Salix alba	10	No	FACW	Total Number of Dominant
4.				Species Across All Strata: 7 (B)
5.				Deveent of Deminent Creasion
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 71.4% (A/E
7.				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)	-		OBL species 0 $x 1 = 0$
1. Salix alba	10	Yes	FACW	FACW species 195 x 2 = 390
2. Viburnum recognitum	5	No	FAC	FAC species $12 \times 3 = 36$
3. Spiraea alba	8	No	FACW	FACU species 30 x 4 = 120
4. Fraxinus pennsylvanica	15	Yes	FACW	UPL species $0 \times 5 = 0$
5. Populus tremuloides	5	No	FACU	Column Totals: 237 (A) 546 (I
6.				Prevalence Index = $B/A = 2.30$
7.	·	·		Hydrophytic Vegetation Indicators:
	43	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5')		-		X 2 - Dominance Test is >50%
1. Onoclea sensibilis	70	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. Quercus bicolor	2	<u> </u>	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide support
3. Carex tribuloides	25	Yes	FACW	data in Remarks or on a separate sheet)
4. Euthamia graminifolia	<u></u> 5	<u> </u>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Spiraea alba	<u>5</u>	<u>No</u>	FACW	
6. Cornus racemosa	2	<u>No</u>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.	·	·		Deminions of Vegetation Strata.
	·	<u> </u>		<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of heigh
9		·		diameter at breast height (DBH), regardless of heigh
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12				<b>Herb</b> – All herbaceous (non-woody) plants, regardles
	109	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30'	)			Woody vines – All woody vines greater than 3.28 ft
1. <u>Vitis aestivalis</u>	5	Yes	FACU	height.
2	·	<u> </u>		Hydrophytic
3.				Vegetation
4		<b>.</b>		Present? Yes <u>X</u> No
	5	=Total Cover		

# SOIL

Profile Desc	cription: (Describe	to the dep				ator or co	onfirm the absence o	of indicators.)
Depth	Matrix			x Featur		2	_	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-12	10YR 4/1	90	10YR 4/4	10	C	PL/M	Sandy	Distinct redox concentrations
<u>    12-16                               </u>	10YR 5/2	55	5YR 4/4			<u>M</u>	Sandy	Prominent redox concentrations
		·						
		·						
$\frac{1}{1}$ Type: C=C	oncentration, D=Dep	letion RM		 /S=Mas	ked San		<sup>2</sup> l ocation: I	PL=Pore Lining, M=Matrix.
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (	S7)				luck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	oipedon (A2)		Polyvalue Belc	,	ce (S8) (	LRR R,		Prairie Redox (A16) ( <b>LRR K, L, R</b> )
	istic (A3)		 MLRA 149B		( -/ (	,		lucky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	en Sulfide (A4)		Thin Dark Surf	·				ue Below Surface (S8) (LRR K, L)
	d Layers (A5)		High Chroma S					ark Surface (S9) ( <b>LRR K, L</b> )
	d Below Dark Surface	o (A11)						
		e (ATT)	Loamy Mucky			κ <b>κ</b> , <b>ι</b> )		anganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)		Loamy Gleyed		FZ)			ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	podic (A17)		Depleted Matri		-0)			rrent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su					hallow Dark Surface (F22)
	/lucky Mineral (S1)		Depleted Dark		. ,		Other (I	Explain in Remarks)
	Bleyed Matrix (S4)		Redox Depres		8)		2	
X Sandy R			Marl (F10) ( <b>LR</b>					tors of hydrophytic vegetation and
Stripped	l Matrix (S6)		Red Parent Ma	aterial (F	21) <b>(MLF</b>	RA 145)		nd hydrology must be present, s disturbed or problematic.
Restrictive	Layer (if observed):							
Type:	nor	ne						
Depth (ii	nches):						Hydric Soil Prese	ent? Yes <u>X</u> No
Remarks:								
Remarks:								
i tomanto.								
1								



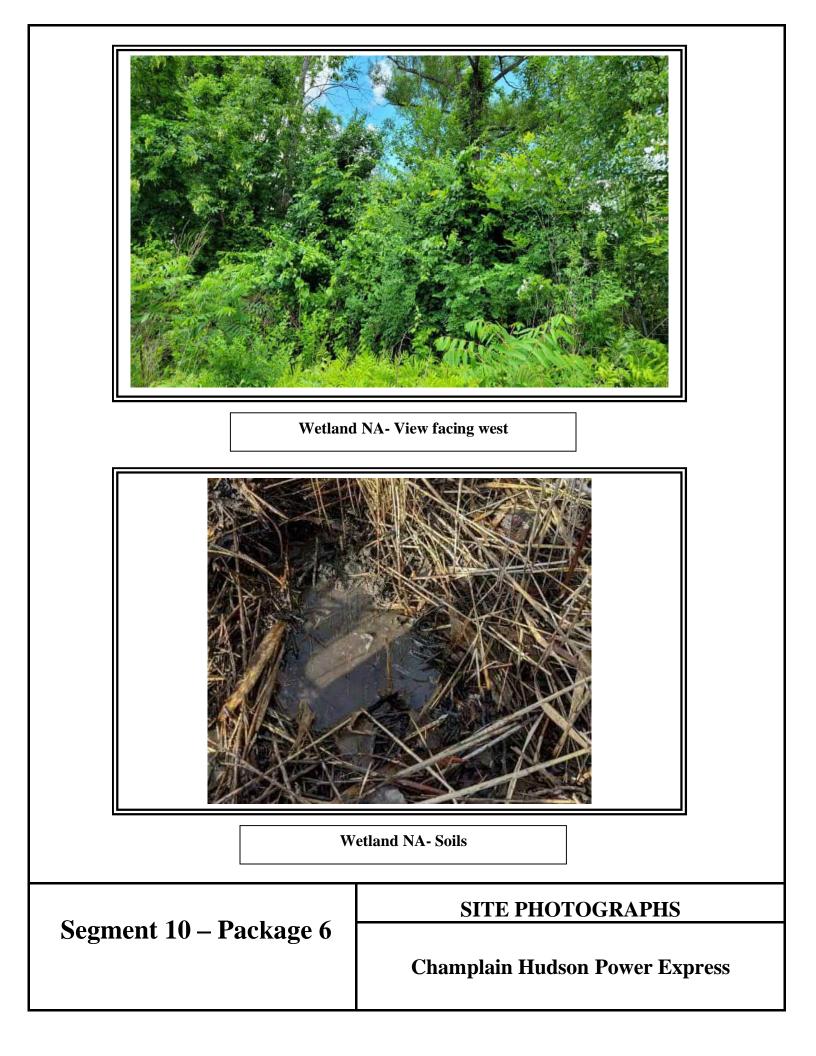
Project/Site: CHP	PE Packag	e 6				City/Cou	inty: Selkirk			Sampling Date:	11/19/21
Applicant/Owner:	CHA							Sta	te: <u>NY</u>	Sampling Poi	nt: <u>NA-3</u>
Investigator(s): Nie	ck Domini	c/Justir	n Williams				Section, Tov	wnship, Rang	je:		
Landform (hillside,	terrace, e	tc.):			Loc	al relief (cor	ncave, conve	x, none):		Slo	pe %:
Subregion (LRR or	MLRA):	LRR F	R, MLRA 144B	Lat:	42.52299		Long:	-73.80753		Datum:	NAD83
Soil Map Unit Nam	e:							NWI cla	ssificatior	n: <u>PFO</u>	
Are climatic / hydro	ologic cond	ditions o	on the site typic	al for	this time of year	?	Yes X	No	(lf no	, explain in Rema	ŕks.)
Are Vegetation N	<u>lo</u> , Soil	N	, or Hydrology	Ν	significantly dis	turbed?	Are "Norm	nal Circumsta	ances" pre	esent? Yes X	No
Are Vegetation	N_, Soil	Ν	, or Hydrology	Ν	naturally proble	matic?	(If needec	l, explain any	answers	in Remarks.)	
SUMMARY OF	FINDIN	IGS –	Attach site	map	showing sa	impling p	oint locat	ions, tran	sects, i	mportant feat	ures, etc.
Hydrophytic Vege	tation Pre	sent?	Yes	х	No	Is the	Sampled A	rea			
Hydric Soil Preser	nt?		Yes	Х	No	within	a Wetland?	· · ·	Yes <u>X</u>	No	
Wetland Hydrolog	ly Present	?	Yes	Х	No	lf yes,	optional We	tland Site ID:			
Remarks: (Explai Wetland NA	in alternati	ve proc	edures here or	in a s	eparate report.)						

Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requ	ired: check all that apply)	Surface Soil Cracks (B6)
X Surface Water (A1)	Water-Stained Leaves (B9)	Drainage Patterns (B10)
X 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 Roots	
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	
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B		Microtopographic Relief (D4)
Sparsely Vegetated Concave Surface (	B8)	FAC-Neutral Test (D5)
Field Observations:		
Surface Water Present? Yes X	No Depth (inches):1	
Water Table Present? Yes X	No Depth (inches): 6	
Saturation Present? Yes X	No Depth (inches): 3 V	Netland Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous inspectio	ns), if available:
Remarks:		

Sampling Point: NA-3

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1		·		Number of Dominant Species
2		,		That Are OBL, FACW, or FAC:3 (A)
3				Total Number of Dominant
4				Species Across All Strata: 4 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 75.0% (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. Cornus alba	50	Yes	FAC	FACW species 60 x 2 = 120
2. Lonicera	20	Yes	FACU	FAC species 50 x 3 = 150
3.				FACU species 20 x 4 = 80
4.				UPL species $0 \times 5 = 0$
				Column Totals: 130 (A) 350 (B)
				$\frac{1}{2} \frac{1}{2} \frac{1}$
7				Hydrophytic Vegetation Indicators:
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Phragmites australis	40	Yes	FACW	X_3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Osmunda	20	Yes	FACW	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.				Tran Wandy plants 2 in (7 C am) on more in
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.				
12.		-Total Course		Herb – All herbaceous (non-woody) plants, regardless
West Miss Obstance (Distained and a	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>Woody Vine Stratum</u> (Plot size: <u>30</u> )				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Vegetation
4				Present? Yes x No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	rate sheet.)			•

		to the dep				tor or c	onfirm the absence o	f indicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
					1990			
0-16	10yr 2/2	80	10yr 5/6	20			Sandy	Prominent
	oncentration, D=Depl	etion, RM:	Reduced Matrix, I	MS=Mas	ked Sand	l Grains.		L=Pore Lining, M=Matrix.
Hydric Soil Histosol			Polyvalue Belo	w Surfa	co (S8) /I			or Problematic Hydric Soils <sup>3</sup> : ıck (A10) (LRR K, L, MLRA 149B)
	bipedon (A2)	-	MLRA 149E		00) (1	-1.1.1.1.,		rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi			Thin Dark Sur	'	) (LRR R,	MLRA <sup>·</sup>		icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)	-	High Chroma	Sands (S	611) (L <b>R</b> F	R K, L)	Polyvalu	e Below Surface (S8) (LRR K, L)
	l Layers (A5)	-	Loamy Mucky			<b>R K, L</b> )		rk Surface (S9) (LRR K, L)
	d Below Dark Surface	e (A11)	Loamy Gleyed		F2)			nganese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	-	X Depleted Matr					nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1) Bleyed Matrix (S4)	-	Redox Dark S Depleted Dark	-	-			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) ent Material (F21)
	ledox (S5)	-	Redox Depres					allow Dark Surface (F22)
	Matrix (S6)	-	 Marl (F10) (L <b>F</b>	•	,			xplain in Remarks)
Dark Su	rface (S7)	-						
2								
		ion and we	etland hydrology m	ust be p	resent, ur	iless dist	urbed or problematic.	
Type:	Layer (if observed):							
-							Ubudaia Cail Daaaa	
	nches):						Hydric Soil Prese	nt? Yes <u>X</u> No
Remarks:								



Project/Site: CHPE	City/County: Selkirk/Albany	Sampling Date: 6.13.22
Applicant/Owner: TDI	State: NY	Sampling Point: NA Wet
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief (concave, convex, none): <u>Cocave</u>	Slope %: 15
Subregion (LRR or MLRA): LRR R Lat:	42.521958 Long: -73.808070	Datum: NAD83
Soil Map Unit Name: RhA/RhB - Rhinebeck silty clay lo	amNWI classification:	PUB
Are climatic / hydrologic conditions on the site typical for	this time of year? Yes X No (If no, e	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	ı Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing sampling point locations, transects, im	portant features, etc.
Hydrophytic Vegetation Present? Yes X	No Is the Sampled Area	
Hydric Soil Present? Yes	No X within a Wetland? Yes	No <u>X</u>
Wetland Hydrology Present? Yes X	No If yes, optional Wetland Site ID:	
Remarks: (Explain alternative procedures here or in a s Small pond near flag NA-9.	eparate report.)	

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)		Surface Soil Cracks (B6)
X Surface Water (A1)	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)		X 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)	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)	X 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)
Sparsely Vegetated Concave Surface (E	38)		X FAC-Neutral Test (D5)
Field Observations:			
Surface Water Present? Yes X	No Depth (inches): 36		
Water Table Present? Yes X	No Depth (inches): 0		
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):0	Wetlan	d Hydrology Present? Yes X No
			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe)			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe)			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe)			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · · · · · · · · · · · · · · · · ·
(includes capillary fringe) Describe Recorded Data (stream gauge, mo			· · · · · · · · · · · · · · · · · · ·

Sampling Point: NA Wet

1.	<u>Tree Stratum</u> (Plot size: <u>30</u> )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
4.	2				
6.					
Saping/Shrub Stratum       (Plot size: 15)	6				
Sapinal/Shrub Stratum (Plot size:15)	7				Prevalence Index worksheet:
1.		:	=Total Cover		Total % Cover of: Multiply by:
2.	Sapling/Shrub Stratum (Plot size: 15 )				OBL species113 x 1 =113
3.	1				FACW species 0 x 2 = 0
4.	2				FAC species x 3 =
4.	3				FACU species x 4 =
5.	4				UPL species0 x 5 =0
6.	F				Column Totals: 113 (A) 113 (B)
7.	6				Prevalence Index = B/A = 1.00
Herb Stratum       (Plot size:					Hydrophytic Vegetation Indicators:
Herb Stratum       (Plot size:			=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
2.       Leersia oryzoides       10       No       OBL       4.	Herb Stratum (Plot size: 5 )				X 2 - Dominance Test is >50%
3.       Typha X glauca       5       No       OBL       data in Remarks or on a separate sheet)         4.	1. Lemna minor	98	Yes	OBL	3 - Prevalence Index is ≤3.0 <sup>1</sup>
3. Typina X glauca       3       NO       OBL         4.	2. Leersia oryzoides	10	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
4.	3. Typha X glauca	5	No	OBL	data in Remarks or on a separate sheet)
5.					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.	5				
7.					
9.	7				
11.					
Image: Moody Vine Stratum       (Plot size:30)         1.					
1.	12		=Total Cover		
2.					
3.					
4 =Total Cover Vegetation Yes _X No					
=Total Cover					-
Remarks: (Include photo numbers here or on a separate sheet.)			=Total Cover		
	Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Profile Desc	ription: (Describe	to the dept	n needed to doc	ument tl	he indica	tor or co	onfirm 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	Ren	narks
———							· .		
———							·		
						·			
	oncentration, D=Depl	etion, RM=I	Reduced Matrix, N	//S=Mas	ked Sand	l Grains.		L=Pore Lining, M=I	
Hydric Soil	ndicators:						Indicators for	or Problematic Hy	dric Soils <sup>3</sup> :
Histosol		_	Polyvalue Belo		ce (S8) (I	LRR R,		ıck (A10) ( <b>LRR K, I</b>	
	pipedon (A2)		MLRA 149B	,				rairie Redox (A16) (	
I —	stic (A3)	_	Thin Dark Surf					cky Peat or Peat (	
	n Sulfide (A4)	_	High Chroma S					e Below Surface (S	
	d Layers (A5)	_	Loamy Mucky			R K, L)		rk Surface (S9) ( <b>LR</b>	
	d Below Dark Surface	e (A11)	Loamy Gleyed		F2)			nganese Masses (F	
	ark Surface (A12)	_	Depleted Matri						(F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)	_	Redox Dark Su					podic (TA6) ( <b>MLRA</b>	144A, 145, 149B)
	Bleyed Matrix (S4)	_	Depleted Dark					ent Material (F21)	
	edox (S5)	_	Redox Depres		8)			allow Dark Surface	
	Matrix (S6)	_	Marl (F10) ( <b>LR</b>	RR K, L)			Other (E	xplain in Remarks)	
Dark Su	rface (S7)								
2									
		ion and wet	and hydrology m	ust be pr	resent, ur	nless distu	urbed or problematic.		
	Layer (if observed):								
Type:									
Depth (ii	nches):						Hydric Soil Preser	nt? Yes	<u>No X</u>
Remarks:									
This data for	m is revised from No	rthcentral a	nd Northeast Reg	ional Su	pplement	Version	2.0 to include the NR	CS Field Indicators	of Hydric Soils,
	2015 Errata (http://w								
Soils were n	ot collected because	the wetland	was inundated a	nd domi	nated by	FACW/O	BL species.		



Wetland NA- View facing west

Wetland NA- No Soils collected (standing water)

Segment 10 – Package 6

# SITE PHOTOGRAPHS

**Champlain Hudson Power Express** 

Project/Site: CHPE Package 6	City/County: Selkirk Sampling Date: 11/18/2021
Applicant/Owner: CHA	State: NY Sampling Point: NA-29 UPL
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	ocal relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.51818	Long: <u>-73.81033</u> Datum:
Soil Map Unit Name:	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time of year	r? Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significantly di	sturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturally probl	lematic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing s	ampling point locations, transects, important features, etc.

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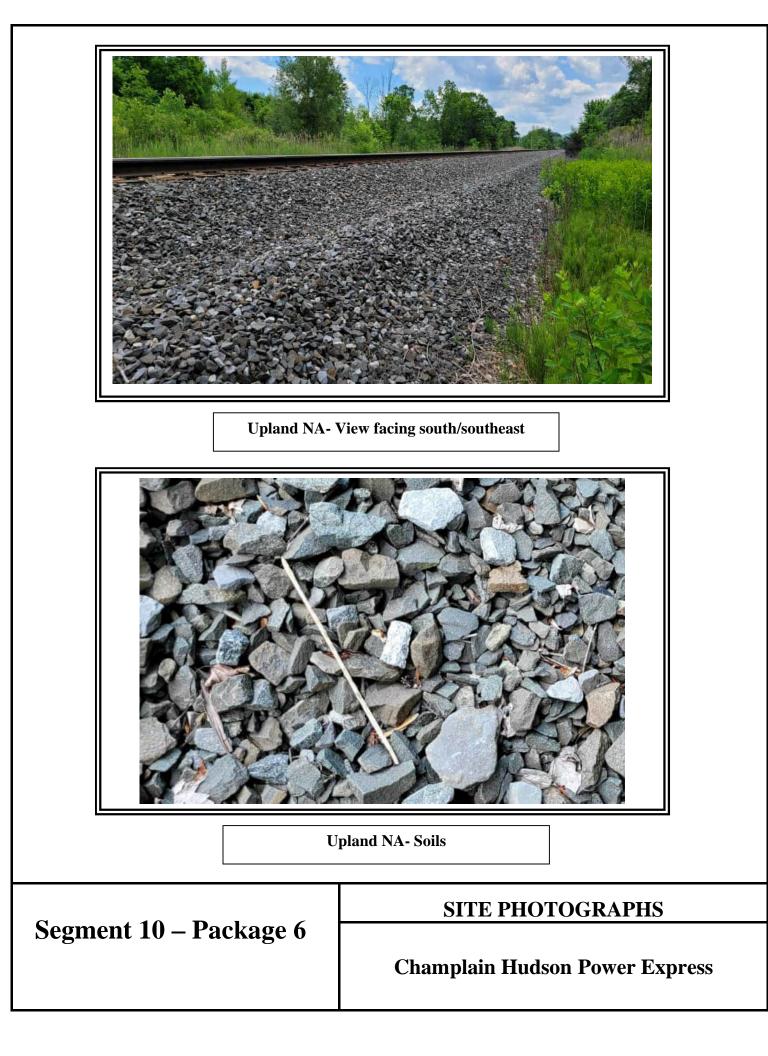
Remarks: (Explain alternative procedures here or in a separate report.)
Upland for WL NA

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)
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 Root	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 (B	.8)	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:		

Sampling Point: NA-29 UPL

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	20	Yes	FACU	
2. Juniperus virginiana	20	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
<ol> <li>Fagus grandifolia</li> <li>4.</li> </ol>	20	Yes	FACU	Total Number of Dominant       Species Across All Strata:
5.           6.				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0.0%</u> (A/B)
7				Prevalence Index worksheet:
	60	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 0 x 1 = 0
1. Lonicera	30	Yes	FACU	FACW species 0 x 2 = 0
2				FAC species 0 x 3 = 0
3				FACU species 140 x 4 = 560
4.				UPL species 0 x 5 = 0
5.				Column Totals: 140 (A) 560 (B)
6.				Prevalence Index = $B/A = 4.00$
7.				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Solidago	30	Yes	FACU	$3 - \text{Prevalence Index is } \le 3.0^1$
2. <u>Rosa multiflora</u> 3.	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
3 4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
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.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				Continue Mandy plants loss than 2 in DDL
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	50	=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: 30 )				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 sepa	rate sheet.)			

nches) 0-6			Redo	x Featu	res					
0-6	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Rema	rks
	10yr 3/1	100					Loamy/Clayey			
6-14	10yr 5/2									
		·								
			Ded and Match				21			
ype: C=Cor ydric Soil In	ncentration, D=Dep	letion, RM	=Reduced Matrix, I	NS=Mas	sked San	d Grains.			e Lining, M=Ma plematic Hydr	
// Histosol			Polyvalue Belo	w Surfa	re (S8) (				0) ( <b>LRR K, L,</b>	
_ `	pedon (A2)		NLRA 149E		00)(				edox (A16) (L	
Black Hist			Thin Dark Sur	'	) ( <b>LRR R</b>	. MLRA			at or Peat (S3	
	Sulfide (A4)		High Chroma						w Surface (S8	
	Layers (A5)		Loamy Mucky						ace (S9) (LRR	
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	(F2)		Iror	I-Manganes	e Masses (F12	2) ( <b>LRR K, L,</b>
Thick Dar	k Surface (A12)		Depleted Matr	ix (F3)			Pie	dmont Flood	dplain Soils (F	19) ( <b>MLRA 1</b> 4
Sandy Mu	ucky Mineral (S1)		Redox Dark S	urface (F	-6)		Me	sic Spodic (1	TA6) ( <b>MLRA 1</b>	44A, 145, 14
	eyed Matrix (S4)		Depleted Dark					d Parent Ma		
Sandy Re			Redox Depres		8)			•	ark Surface (F	-22)
	Matrix (S6)		Marl (F10) (L <b>F</b>	<b>R K</b> , L)			Oth	er (Explain i	in Remarks)	
Dark Surfa	ace (S7)									
adiaatara af l	hudron hutio vo sotot	ion and w	atland hudrala au na	uat ha n	recent	مأممم طاما	under an enclose	atia		
	hydrophytic vegetat ayer (if observed):		etiand hydrology m	ust be p	resent, u	niess als	urbed or problem	atic.		
Туре:	ayer (il observeu).									
							Hudria Sail D	recent?	Vac	No
Deptil (inc								resent?	Tes	<u>     No     x</u>
	- 1 <b> </b>									
						t Version	2.0 to include the		d Indicators of	Hvdric Solls.
	1116 Errata (http://w	MANA Dree I	ieda aov/Internet/F	SE DOU		S/nrce1/	2p2_051293.doc			
Depth (inc	n is revised from No					t Version	Hydric Soil P		d In	Yes



Project/Site: CHPE - N. Masonry - MP 199.9, G-NM-A	City/County: Coeymans/Albany Sa	mpling Date: 9/06/2023
Applicant/Owner: CHPE	State: NY	Sampling Point: <u>NM-A-Wet</u>
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: <u>Coeymans</u>	
Landform (hillside, terrace, etc.): Lake Plains	ocal relief (concave, convex, none): Concave	Slope (%): 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 31' 19.32"	Long: 73° 48' 30.29"	Datum:
Soil Map Unit Name: Rhinebeck Silty Clay Loam	NWI classification	on: PFO
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes X No (If no, explain in R	emarks.)
Are Vegetation, Soil, or Hydrologysignificantly	y disturbed? Are "Normal Circumstances" presen	t? Yes <u>X</u> No
Are Vegetation, Soil, or Hydrology naturally pr	oblematic? (If needed, explain any answers in F	Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects, im	portant features, etc.

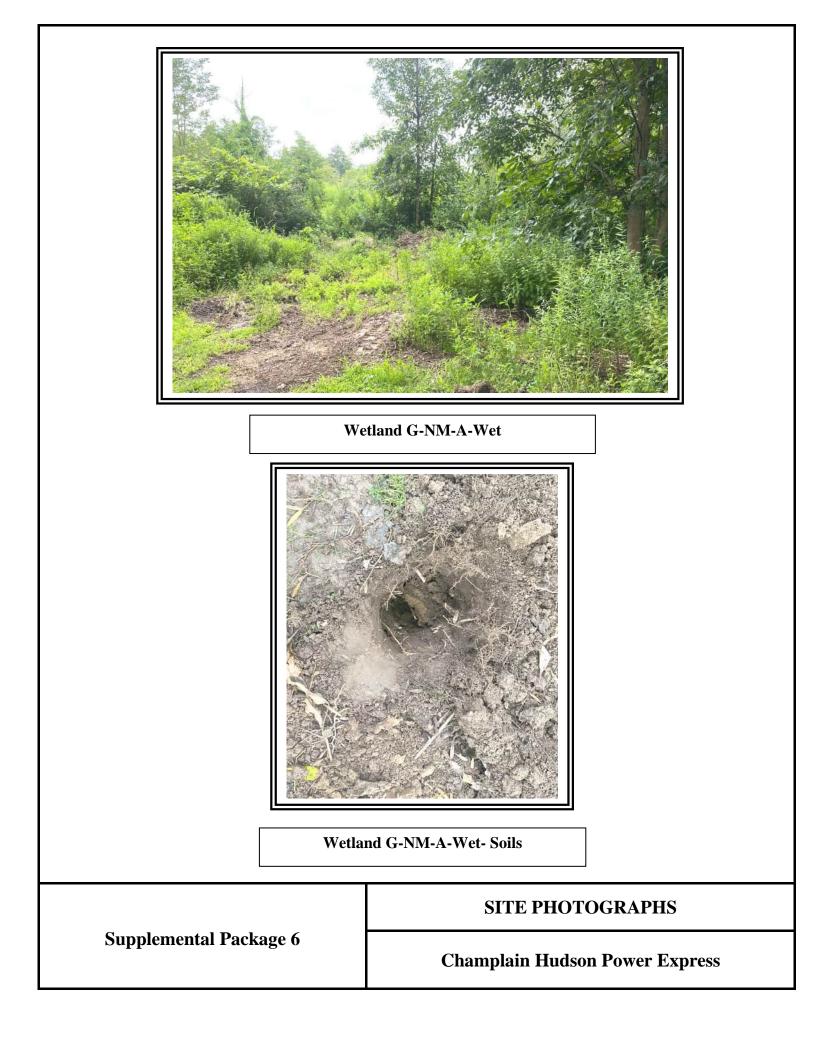
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative proced	Jures here or in a separate report.)	

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 Leaves (B9)	X 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)	X 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): Wetlan	d Hydrology Present? Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monito	ring well, aerial photos, previous inspections), i	f available:
Remarks:		

Sampling Point: NM-A-Wet

Tree Stratum       (Plot size:30')       % Cover       Species?       Status       Dominance Test worksheet:         1.       Acer rubrum       15       Yes       FAC       Number of Dominant Species         2.       Fraxinus pennsylvanica       20       Yes       FACW       Total Number of Dominant Species         3.       Ulmus americana       25       Yes       FACW       Total Number of Dominant         4.       Quercus bicolor       10       No       FACW       Species Across All Strata:
2.       Fraxinus pennsylvanica       20       Yes       FACW       Number of Dominant Species         3.       Ulmus americana       25       Yes       FACW       Total Number of Dominant         4.       Quercus bicolor       10       No       FACW       Total Number of Dominant         5.
3.       Ulmus americana       25       Yes       FACW       Total Number of Dominant         4.       Quercus bicolor       10       No       FACW       Total Number of Dominant         5.       10       No       FACW       Species Across All Strata:       9       (B)         6.       70       =Total Cover       Prevalence Index worksheet:       100.0%       (A/B)         7.       70       =Total Cover       Total % Cover of:       Multiply by:       0BL species       x 1 =       10         1.       Rhamnus cathartica       10       Yes       FAC       FACW species       x 2 =       10         2.       Cornus racemosa       10       Yes       FAC       FAC Species       x 3 =       10         3.       Cornus amomum       5       Yes       FACW       FACU species       x 4 =       10         4.
4.       Quercus bicolor       10       No       FACW       Species Across All Strata:       9       (B)         5.
5.
6.
7.
Total % Cover of:       Multiply by:         Sapling/Shrub Stratum (Plot size:       15'       )       OBL species       x 1 =         1.       Rhamnus cathartica       10       Yes       FAC       FACW species       x 2 =         2.       Cornus racemosa       10       Yes       FAC       FAC species       x 3 =         3.       Cornus amomum       5       Yes       FACW       FACU species       x 4 =         4.
Sapling/Shrub Stratum (Plot size: 15')       0       Ves       FAC       FAC       X 1 =         1. Rhamnus cathartica       10       Yes       FAC       FACW species       X 2 =         2. Cornus racemosa       10       Yes       FAC       FAC species       X 3 =         3. Cornus amomum       5       Yes       FACW       FACU species       X 4 =         4.
1.       Rhamnus cathartica       10       Yes       FAC       FACW species       x 2 =         2.       Cornus racemosa       10       Yes       FAC       FAC species       x 3 =         3.       Cornus amomum       5       Yes       FACW       FACU species       x 4 =         4.
2.       Cornus racemosa       10       Yes       FAC       FAC species       x 3 =         3.       Cornus amomum       5       Yes       FACW       FACU species       x 4 =         4.
3. Cornus amomum       5       Yes       FACW       FACU speciesX 4 =         4
4.
5.
6.       Prevalence Index = B/A =         7.       Hydrophytic Vegetation Indicators:         25       =Total Cover
7.     Hydrophytic Vegetation Indicators:       25     =Total Cover     1 - Rapid Test for Hydrophytic Vegetation
25=Total Cover1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5') X 2 - Dominance Test is >50%
1. Onoclea sensibilis 5 No FACW 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago rugosa 15 Yes FAC 4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. <i>Typha angustifolia</i> 10 Yes FACW 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
30 =Total Cover of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15') Woody vines – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans 10 Yes FAC height.
2
3 Hydrophytic Vegetation
4 Present? Yes X No
10=Total Cover
Remarks: (Include photo numbers here or on a separate sheet.)

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)									
Depth	Matrix		Redo	x Feature	es				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	7.5YR 2.5/1	95	10YR 4/6	5	С	M	Loamy/Clayey	Prominent redox concentrations	
5-14	10YR 5/2	85	10YR 4/6	15	_C_	<u>M</u>	Loamy/Clayey	Prominent redox concentrations	
	=Concentration, D=De	pletion, R	M=Reduced Matrix, C	CS=Cove	red or Co	ated San		cation: PL=Pore Lining, M=Matrix.	
-	oil Indicators:			o (	(00) (1 -			or Problematic Hydric Soils <sup>3</sup> :	
	sol (A1)		Polyvalue Below		e (S8) (LF	RR,		ick (A10) ( <b>LRR K, L, MLRA 149B</b> )	
	Epipedon (A2)		MLRA 149B)					rairie Redox (A16) ( <b>LRR K, L, R</b> )	
	Histic (A3)		Thin Dark Surfa					icky Peat or Peat (S3) (LRR K, L, R)	
	ogen Sulfide (A4)		High Chroma Sa	-				e Below Surface (S8) ( <b>LRR K, L</b> )	
	fied Layers (A5)		Loamy Mucky M			K, L)		rk Surface (S9) ( <b>LRR K, L</b> )	
	eted Below Dark Surfa	ce (A11)	Loamy Gleyed M		2)			nganese Masses (F12) ( <b>LRR K, L, R</b> )	
	Dark Surface (A12)		X Depleted Matrix	· · /				nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
	y Mucky Mineral (S1)		X Redox Dark Sur	face (F6	)			podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )	
	y Gleyed Matrix (S4)		Depleted Dark S	Surface (	F7)			ent Material (F21)	
Sand	y Redox (S5)		Redox Depressi	ions (F8)			Very Sha	allow Dark Surface (TF12)	
Stripp	oed Matrix (S6)		Marl (F10) (LRF	R K, L)			Other (E	xplain in Remarks)	
Dark	Surface (S7)								
31	<b>f</b> haard aan haad baaraa ah				4			_	
	s of hydrophytic veget /e Layer (if observed		wetland hydrology mi	ust be pro	esent, uni	ess distu	rbed or problemation	2	
Type:	ve Layer (il Observed	•							
	inches):						Hydric Soil Pr	esent? Yes X No	
Remarks:									
		lorthcentr	al and Northeast Regi	ional Sur	nlement	Version 2	0 to reflect the NR	CS Field Indicators of Hydric Soils	
	0 March 2013 Errata.		•		•			,	
		、 I	0	-	_		• _	,	



Project/Site: CHPE - N. Masonry - MP 199.9, G-NM-A	City/County: Coeymans/Alb	any	Samplin	ng Date: <u>9/06/2</u>	2023
Applicant/Owner: CHPE		State:	NY S	Sampling Point:	NM-A-Up
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range:	Coxsackie			
Landform (hillside, terrace, etc.): Lake Plains	Local relief (concave, convex,	none): <u>Concave</u>		Slope (%)	): <u>0</u>
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 31' 19.32	<u>2"</u> Long: <u>7</u>	′3° 48' 30.29"		Datum:	
Soil Map Unit Name: Rhinebeck Silty Clay Loam		NWI class	sification: N	lone	
Are climatic / hydrologic conditions on the site typical for this time of	year? Yes X No	(If no, explai	in in Remar	ks.)	
Are Vegetation, Soil, or Hydrology significant	ntly disturbed? Are "Normal	l Circumstances" p	present?	Yes X N	No
Are Vegetation, Soil, or Hydrology naturally	problematic? (If needed, $\epsilon$	explain any answei	rs in Rema	rks.)	
SUMMARY OF FINDINGS – Attach site map showing	g sampling point location	ons, transects	s, import	ant features	s, etc.
Hydrophytic Vagatation Dracont? Vag	In the Sampled Area				

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

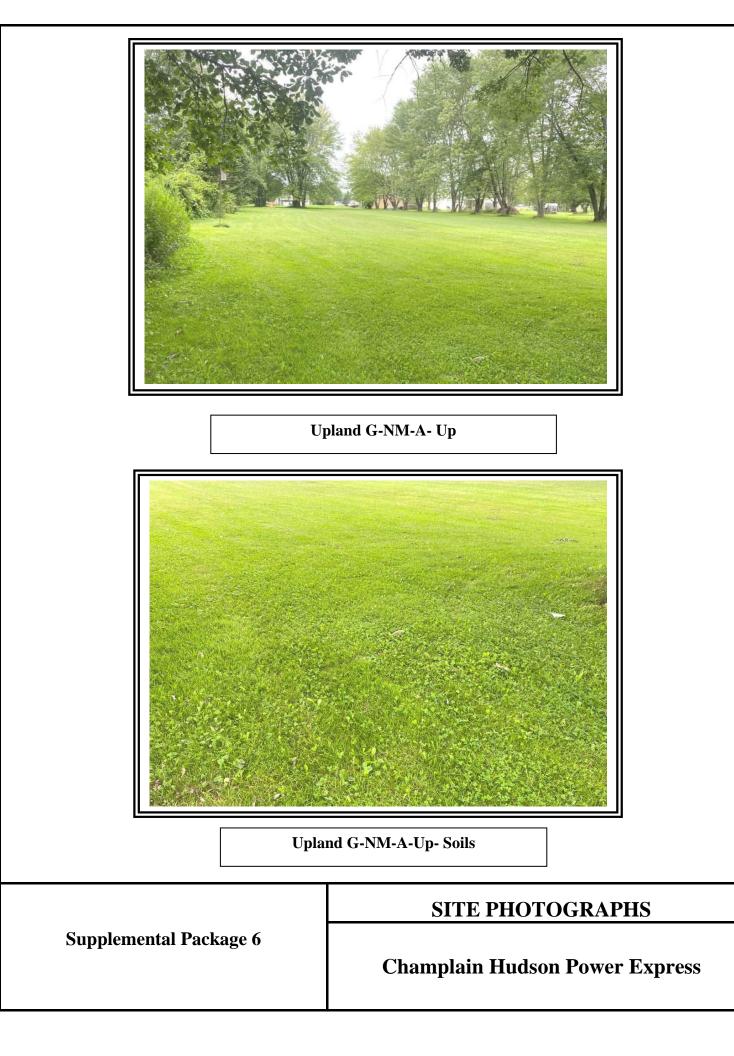
Wetland Hydrology Indicators:							Secondary Indicators	s (minimum o	f two required)	
Primary Indicators (minimum of one is required; check all that apply)							Surface Soil Cracks (B6)			
Surface Water (A1) Water-Stained Leaves (B9)							Drainage Patterns (B10)			
High Water Table (A2) Aquatic Fauna (B13)						Moss Trim Lines (B16)				
Saturation (A3)				- Marl Deposits (B15)			Dry-Season Wat	ter Table (C2	)	
Water Marks (B1)				- Hydrogen Sulfide Odo	r (C1)		Crayfish Burrow	s (C8)		
Sediment Deposits (B2)	)			- Oxidized Rhizospheres	s on Livi	ng Roots (C3)	Saturation Visibl	e on Aerial In	nagery (C9)	
Drift Deposits (B3)				Presence of Reduced	Iron (C4	)	Stunted or Stres	sed Plants (D	01)	
Algal Mat or Crust (B4)				- Recent Iron Reduction	in Tilled	l Soils (C6)	Geomorphic Pos	sition (D2)		
Iron Deposits (B5)				Thin Muck Surface (C	7)		Shallow Aquitare	d (D3)		
Inundation Visible on A	erial Imagery	' (B7)		Other (Explain in Rem	arks)		Microtopographi	c Relief (D4)		
Sparsely Vegetated Co	ncave Surfac	ce (B8)		-			FAC-Neutral Tes	st (D5)		
Field Observations:										
Surface Water Present?	Yes	No	Х	Depth (inches):						
Water Table Present?	Yes	No	Х	Depth (inches):						
Saturation Present?	Yes	No	Х	Depth (inches):		Wetland Hy	drology Present?	Yes	No X	
(includes capillary fringe)										
Describe Recorded Data (st	ream gauge,	monito	ring \	well, aerial photos, previ	ous insp	ections), if ava	ilable:			
Remarks:										

Sampling Point: NM-A-Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant	Indicator Status	Dominance Test worksheet:
		Species?		Dominance rest 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         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: 5' )		-		2 - Dominance Test is >50%
1. Poa pratensis	80	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago altissima	10	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Artemisia vulgaris	10	No	UPL	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 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
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15' )				Woody vines – 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 separ	rate sheet.)			

#### SOIL

Profile Description: (Describe to the o	depth needed to doc	ument th	ne indicat	or or con	firm the absence of indic	ators.)
Depth <u>Matrix</u>	Redo	x Featur	es			
(inches) Color (moist) %	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
l						
<sup>1</sup> Type: C=Concentration, D=Depletion, I					d Craina <sup>2</sup> l agation:	PL=Pore Lining, M=Matrix.
		03-00/6		aleu San		ematic Hydric Soils <sup>3</sup> :
Hydric Soil Indicators:	Daharahan Daha	0				•
Histosol (A1)	Polyvalue Belov		e (58) (LR	KR,		) (LRR K, L, MLRA 149B)
Histic Epipedon (A2)	MLRA 149B)					dox (A16) ( <b>LRR K, L, R</b> )
Black Histic (A3)	Thin Dark Surfa					t or Peat (S3) ( <b>LRR K, L, R</b> )
Hydrogen Sulfide (A4)	High Chroma S	-				Surface (S8) (LRR K, L)
Stratified Layers (A5)	Loamy Mucky N			K, L)		e (S9) ( <b>LRR K, L</b> )
Depleted Below Dark Surface (A11)	Loamy Gleyed	Matrix (F	2)			Masses (F12) ( <b>LRR K, L, R</b> )
Thick Dark Surface (A12)	Depleted Matrix	(F3)			Piedmont Floodp	olain Soils (F19) ( <b>MLRA 149B</b> )
Sandy Mucky Mineral (S1)	Redox Dark Su	rface (F6	5)		Mesic Spodic (T	A6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Gleyed Matrix (S4)	Depleted Dark	Surface (	F7)		Red Parent Mate	erial (F21)
Sandy Redox (S5)	Redox Depress	ions (F8)	)		Very Shallow Da	rk Surface (TF12)
Stripped Matrix (S6)	Marl (F10) ( <b>LRI</b>	R K, L)			Other (Explain in	Remarks)
Dark Surface (S7)						
<sup>3</sup> Indicators of hydrophytic vegetation and	l wetland hydrology m	ust be pr	esent, unl	ess distur	bed or problematic.	
Restrictive Layer (if observed):		· ·				
Туре:						
					Ubudaia Cail Dassant?	No. No. Y
Depth (inches):					Hydric Soil Present?	Yes <u>No X</u>
Remarks:						
NO SOIL HOLE DUG DUE TO AD	JACENT MANICURE	D LAWN				



Project/Site: CHPE - Trailer Park - MP 200.2, G-TP-A	City/County: Coeymans/Albany	Sampling Date: 9/6//2023
Applicant/Owner: CHPE	State:	NY Sampling Point: TP-A-Wet
Investigator(s): K. Weiskotten, K. Schumacher	Section, Township, Range: Coeymans	
Landform (hillside, terrace, etc.): Lake Plains/Summit	ocal relief (concave, convex, none): <u>Concave</u>	Slope (%): 0
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42° 31' 02.34"	Long: <u>73° 48' 40.07"</u>	Datum:
Soil Map Unit Name: Hudson Silt Loam	NWI classific	cation: PFO
Are climatic / hydrologic conditions on the site typical for this time of ye	ear? Yes X No (If no, explain i	n Remarks.)
Are Vegetation, Soil, or Hydrologysignificant	y disturbed? Are "Normal Circumstances" pre	sent? Yes X No
Are Vegetation, Soil, or Hydrology naturally p	roblematic? (If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	sampling point locations, transects,	important features, etc.

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

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 Leaves (B9)	X 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 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 X No Depth (inches): 2 Wetland H	ydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if av	ailable:
Remarks:	

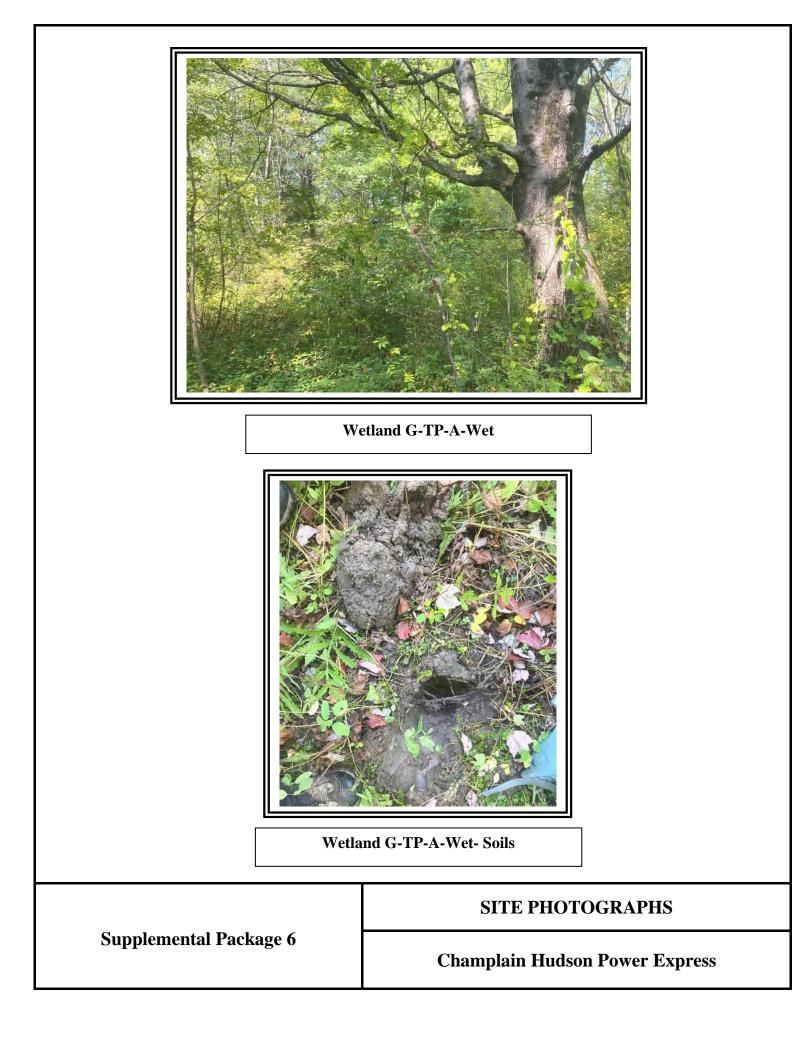
Sampling Point: TP-A-Wet

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	20	Yes	FAC	
2. Fraxinus pennsylvanica	15	Yes	FACW	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:10(A)
3. Ulmus americana	15	Yes	FACW	
4. Salix nigra	15	Yes	OBL	Total Number of DominantSpecies Across All Strata:1313
5.				Percent of Dominant Species
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 76.9% (A/B)
7.				Prevalence Index worksheet:
	65	=Total Cover		Total % Cover of:Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species x 1 =
1. Rhamnus cathartica	10	Yes	FAC	FACW species x 2 =
2. Cornus racemosa	15	Yes	FAC	FAC species x 3 =
3. Lonicera tatarica	15	Yes	FACU	FACU species x 4 =
4.				UPL species x 5 =
5.				Column Totals: (A) (B)
6.				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
1. Onoclea sensibilis	15	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lysimachia nummularia	10	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Impatiens capensis	10	Yes	FAC	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				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	35	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15' )				Woody vines – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans	10	Yes	FAC	height.
2. Celastrus orbiculatus	10	Yes	UPL	
3. Parthenocissus quinquefolia	5	Yes	FACU	Hydrophytic Vegetation
4				Present? Yes X No
	25	=Total Cover		<u> </u>
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

(Ir de pho epa eet.)

#### SOIL

Profile De	escription: (Describe	e to the d	epth needed to docu	iment th	e indicat	or or coi	nfirm the absence	e of indicat	ors.)		
Depth	Matrix		Redo	x Feature							
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks		
0-14	10YR 2/1	85	7.5YR 4/6	15	С	М	Loamy/Clayey	Promi	nent redox con	centrations	
				_							
1Tuno: C		nlotion P	M-Reduced Matrix				d Craina <sup>2</sup> l d		=Pore Lining, N	A-Motrix	
	bil Indicators:			-C0ve		aleu Sal			natic Hydric So		
-	sol (A1)		Polyvalue Below		- (S8) (I E				LRR K, L, MLR		
	Epipedon (A2)		MLRA 149B)	Junace	= (30) ( <b>L</b> R	ι <b>η η</b> ,				-	
	Histic (A3)		Thin Dark Surfa	co (S0) (			<ul> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> </ul>				
			High Chroma Sa								
	ogen Sulfide (A4)						Polyvalue Below Surface (S8) (LRR K, L)				
	fied Layers (A5) eted Below Dark Surfa	00 (111)	Loamy Mucky M	-		<b>Λ</b> , <b>L</b> )	Thin Dark Surface (S9) (LRR K, L)				
		ce (ATT)	Loamy Gleyed N		<b>Z</b> )		Iron-Manganese Masses (F12) (LRR K, L, R)				
	Dark Surface (A12)		Depleted Matrix X Redox Dark Sur		`		Piedmont Floodplain Soils (F19) ( <b>MLRA 149B</b> )				
	y Mucky Mineral (S1) y Gleyed Matrix (S4)			``	,		Mesic Spodic (TA6) (MLRA 144A, 145, 149B)				
	y Redox (S5)		Depleted Dark S Redox Depressi		-		Red Parent Material (F21)				
	,						Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
	ed Matrix (S6)		Marl (F10) ( <b>LRF</b>	( <b>r</b> , L)				zxpiain in R	emarks)		
Dark	Surface (S7)										
3 malia ata m	<b>f</b> h							-			
	s of hydrophytic veget		wetland hydrology mi	ist be pr	esent, uni	ess distu	rbed or problemat	C			
	e Layer (if observed	•									
Type:											
Depth (i	nches):						Hydric Soil P	resent?	Yes X	No	
Remarks:											
This data	form is revised from N	orthcentra	al and Northeast Regi	onal Sup	plement '	Version 2	2.0 to reflect the NF	RCS Field In	ndicators of Hyd	dric Soils	
version 7.	0 March 2013 Errata.	(http://ww	w.nrcs.usda.gov/Inter	net/FSE	_DOCUM	ENTS/nr	cs142p2_051293.	docx)			



Project/Site: CHPE - Trailer Par	k - MP 200.2, G-TP-A	City/County: Coey	/mans/Albany	Sa	mpling Date: 9/6/20	)23
Applicant/Owner: CHPE				State: NY	Sampling Point:	TP-A-Up
Investigator(s): K. Weiskotten, K	. Schumacher	_Section, Township	o, Range: <u>Coeym</u>	ans		
Landform (hillside, terrace, etc.):	Lake Plains/Summit	_ocal relief (concave	e, convex, none): (	Concave	Slope (%)	: 0
Subregion (LRR or MLRA): LRR	R, MLRA 144B _ Lat: 42° 31' 02.34"		_Long: <u>73° 48' 40</u>	).07"	Datum:	
Soil Map Unit Name: Hudson Silt	Loam			WI classificatio	on: None	
Are climatic / hydrologic condition	s on the site typical for this time of y	ear? Yes	X No (If	no, explain in Re	emarks.)	
Are Vegetation, Soil	, or Hydrologysignificant	tly disturbed? Are	e "Normal Circum	stances" present	t? Yes X N	No
Are Vegetation, Soil	, or Hydrology naturally p	problematic? (If	needed, explain a	ny answers in R	temarks.)	
SUMMARY OF FINDINGS	<ul> <li>Attach site map showing</li> </ul>	sampling poin	it locations, tr	ansects, imp	portant 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 proced	dures here or ir	a separate report.)	

Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)				
Primary Indicators (minimum of one is required;	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 Livir	ng 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 Hy	vdrology Present? Yes <u>No X</u>		
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous inspe	ections), if ava	ilable:		
Remarks:					

Sampling Point: TP-A-Up

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	5	No	FACU	
2. Acer saccharum		Yes	FACU	Number of Dominant SpeciesThat Are OBL, FACW, or FAC:3(A)
3. Fraxinus americana	20	Yes	FACU	
4. Tilia americana	5	No	FACU	Total Number of DominantSpecies Across All Strata:99(B)
5.				
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
7				Prevalence Index worksheet:
	50	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15')				OBL species         x 1 =
1. Fraxinus americana	10	Yes	FACU	FACW species x 2 =
2. Lonicera tatarica	15	Yes	FACU	FAC species x 3 =
3. Rhamnus cathartica	10	Yes	FAC	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: 5' )				2 - Dominance Test is >50%
1. Onoclea sensibilis	5	Yes	FACW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Impatiens capensis	5	Yes	FACW	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				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	10	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 15' )				Woody vines – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans	5	No	FAC	height.
2. Parthenocissus quinquefolia	15	Yes	FACU	
3. Celastrus orbiculatus	10	Yes	UPL	Hydrophytic Vegetation
4				Present? Yes No X
	30	=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

SOIL	
------	--

Profile De	scription: (Describ	e to the c	lepth needed to doc	ument th	ne indicat	or or co	nfirm the absence o	f indicators.)
Depth	Matrix		Redox Features					
(inches)	Color (moist)	_%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 3/2	100					Loamy/Clayey	
10-14	10YR 4/4	95	10YR 4/6	5	D	M	Loamy/Clayey	
<sup>1</sup> Type: C=	Concentration, D=De	epletion, F	RM=Reduced Matrix, (	CS=Cove	ered or Co	ated Sar	nd Grains. <sup>2</sup> Loca	ation: PL=Pore Lining, M=Matrix.
-	il Indicators:							Problematic Hydric Soils <sup>3</sup> :
	iol (A1)		Polyvalue Belov		e (S8) ( <b>LF</b>	RR R,		k (A10) ( <b>LRR K, L, MLRA 149B</b> )
	Epipedon (A2)		MLRA 149B)					irie Redox (A16) ( <b>LRR K, L, R</b> )
	Histic (A3)		Thin Dark Surfa	. ,	•		·	ky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	gen Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	ied Layers (A5) ted Below Dark Surfa	000 (111)	Loamy Mucky N	-		<b>r</b> , L)		Surface (S9) (LRR K, L)
	Dark Surface (A12)	ace (ATT)	Loamy Gleyed Depleted Matrix	-	2)			anese Masses (F12) ( <b>LRR K, L, R</b> ) Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	Mucky Mineral (S1)		Redox Dark Su		5)			odic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	Gleyed Matrix (S4)		Depleted Dark S					nt Material (F21)
	Redox (S5)		Redox Depress					low Dark Surface (TF12)
	ed Matrix (S6)		Marl (F10) ( <b>LRF</b>		/			plain in Remarks)
	Surface (S7)			, _,				,
<sup>3</sup> Indicators	of hydrophytic vege	tation and	l wetland hydrology m	ust be pr	esent, un	ess distu	rbed or problematic.	
Restrictive	e Layer (if observed	i):						
Type:								
Depth (ir	nches):						Hydric Soil Pres	sent? Yes <u>No X</u>
Remarks:								
								S Field Indicators of Hydric Soils
version 7.0	) March 2013 Errata.	(http://wv	vw.nrcs.usda.gov/Inte	rnet/FSE	_DOCUM	ENTS/nr	cs142p2_051293.do	cx)

Project/Site: CHPE Package 6			City/County: Selkirk	Samp	Sampling Date: 11/2		
Applicant/Owner: <u>CHA</u>				State:	NY Sar	npling Poir	nt: <u>OA-1</u>
Investigator(s): Nick Dominic/Justi	n Williams		Section, Tow	vnship, Range:			
Landform (hillside, terrace, etc.):		Local	relief (concave, conve	x, none):		Slop	e %:
Subregion (LRR or MLRA): LRR I	R, MLRA 144B Lat:	42.51520	Long:	-73.81183		Datum:	NAD83
Soil Map Unit Name:				NWI classifi	ication: PFO		
Are climatic / hydrologic conditions	on the site typical for	this time of year?	Yes X	No	(If no, explair	n in Remarl	ks.)
Are Vegetation <u>No</u> , Soil <u>N</u>	, or Hydrology N	significantly distur	bed? Are "Norm	al Circumstance	s" present?	Yes X	No
Are Vegetation <u>N</u> , Soil <u>N</u>	, or Hydrology <u>N</u>	naturally problema	atic? (If needed	, explain any ans	swers in Rem	arks.)	
SUMMARY OF FINDINGS -	Attach site map	o showing sam	pling point locat	ions, transec	cts, import	ant featı	ures, etc.
Hydrophytic Vegetation Present?	Yes X	No	Is the Sampled Ar	ea			
Hydric Soil Present?	Yes X	No	within a Wetland?	Yes	X No		
Wetland Hydrology Present?	Yes X	No	If yes, optional Wet	land Site ID:			
Remarks: (Explain alternative pro	cedures here or in a s	separate report.)					

#### HYDROLOGY

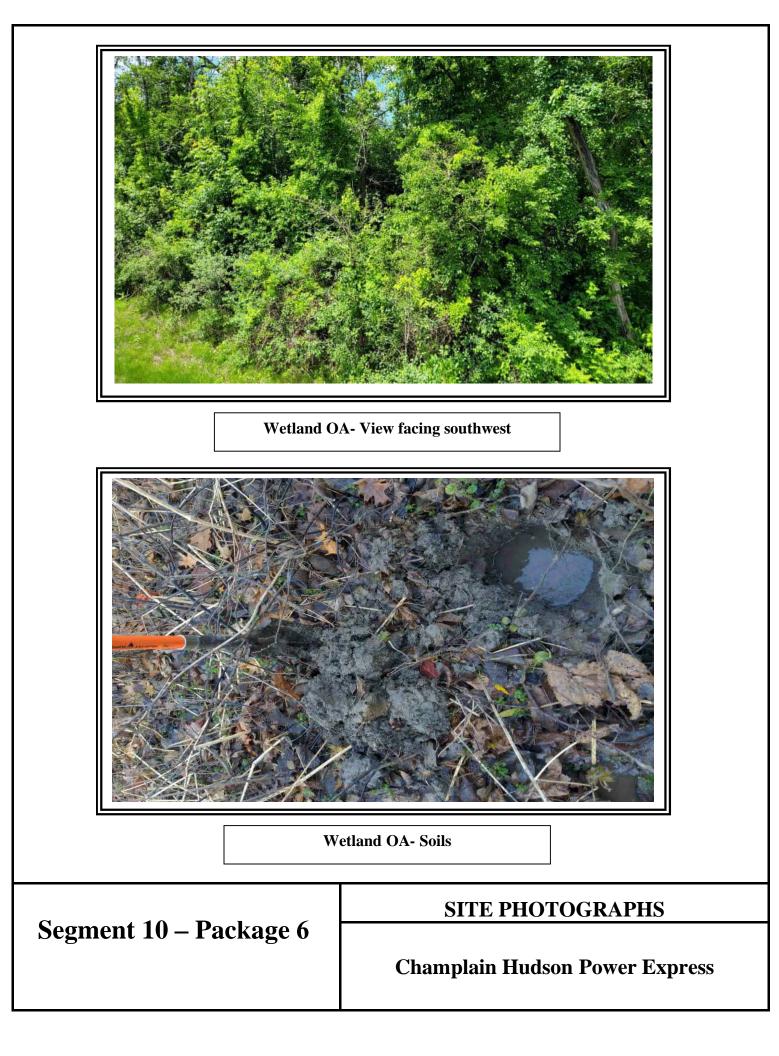
Wetland OA

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)			Water-	Stained Leaves (B	9)		Drainage Patterns (B10)			
X High Water Table (A2)			Aquatio	c Fauna (B13)			Moss Trim Lines (B16)	Moss Trim Lines (B16)		
X Saturation (A3)			Marl D	eposits (B15)			Dry-Season Water Table (C2)			
Water Marks (B1)			Hydroc	gen Sulfide Odor (C	C1)		Crayfish Burrows (C8)			
Sediment Deposits (B2)			Oxidize	ed Rhizospheres of	n Living Ro	oots (C3)	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)			X Preser	nce of Reduced Iron	n (C4)		Stunted or Stressed Plants	Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)			Recent	t Iron Reduction in	Tilled Soils	s (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)			Thin M	uck Surface (C7)			Shallow Aquitard (D3)			
Inundation Visible on Aer	ial Imaç	gery (B	7) Other (	Explain in Remark	s)		Microtopographic Relief (D4	4)		
Sparsely Vegetated Conc	cave Su	ırface (	(B8)				FAC-Neutral Test (D5)			
Field Observations:	-									
Surface Water Present?	Yes		No X	Depth (inches):						
Water Table Present?	Yes	X	No	Depth (inches):	10					
Saturation Present?	Yes	X	No	Depth (inches):	4	Wetlan	d Hydrology Present? Yes X No			
(includes capillary fringe)				· · · · · -						
Describe Recorded Data (stre	eam ga	uge, m	onitoring well,	aerial photos, prev	ious inspe	ctions), if	available:			
·	U	0	0			,.				
Remarks:										

Sampling Point: OA-1

<u>Tree Stratum</u> (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus americana	40	Yes	FACU	
2.	<u>+</u>		1700	Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
3.				Total Number of Dominant
4.				Species Across All Strata: <u>4</u> (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 75.0% (A/B)
7				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15)				OBL species 0 x 1 = 0
1. Cornus alba	40	Yes	FACW	FACW species 90 x 2 = 180
2. Rhamnus cathartica	20	Yes	FAC	FAC species 20 x 3 = 60
3.				FACU species 40 x 4 = 160
4.				UPL species 0 x 5 = 0
5.				Column Totals: 150 (A) 400 (B)
6.				Prevalence Index = B/A = 2.67
7.				Hydrophytic Vegetation Indicators:
	60	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5 )				X 2 - Dominance Test is >50%
1. Phragmites australis	50	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
2.		163	FAGW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8				Tree – Woody plants 3 in. (7.6 cm) or more in
9				diameter at breast height (DBH), regardless of height.
10				<b>Sapling/shrub</b> – Woody plants less than 3 in. DBH
11 12.				and greater than or equal to 3.28 ft (1 m) tall.
12.	50	=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: 30 )				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic Vegetation
4.				Vegetation Present? Yes x No
· · · · · · · · · · · · · · · · · · ·		=Total Cover		
Remarks: (Include photo numbers here or on a sepa				
Remarks: (Include photo numbers here of on a sepa	rate sneet.)			

		to the dep				tor or co	onfirm the absence of in	ndicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Featur %	res Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
					190			
0-16	10yr 4/1	92	10yr 5/8	8			Sandy	Prominent
		•						
					·	. <u></u>		
	oncentration, D=Depl	etion, RM:	Reduced Matrix, I	MS=Mas	ked Sand	l Grains.		Pore Lining, M=Matrix.
Hydric Soil Histosol			Polyvalue Belo	w Surfa	00 (58) /			Problematic Hydric Soils <sup>3</sup> : (A10) (LRR K, L, MLRA 149B)
	bipedon (A2)	-	MLRA 1498		CE (00) (I	-ixix ix,		rie Redox (A16) (LRR K, L, R)
Black Hi			Thin Dark Surf	·	) (LRR R,	MLRA <sup>2</sup>		y Peat or Peat (S3) ( <b>LRR K, L, R</b> )
Hydroge	n Sulfide (A4)	-	High Chroma	Sands (S	611) ( <b>LRF</b>	<b>κ, L)</b>	Polyvalue E	Below Surface (S8) (LRR K, L)
	l Layers (A5)	-	Loamy Mucky			<b>R K</b> , L)		Surface (S9) (L <b>RR K, L</b> )
	d Below Dark Surface	e (A11)	Loamy Gleyed		(F2)			anese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	-	X Depleted Matr		-6)			Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1) Bleyed Matrix (S4)	-	Redox Dark Si Depleted Dark	-	-			dic (TA6) ( <b>MLRA 144A, 145, 149B</b> ) t Material (F21)
	ledox (S5)	-	Redox Depres					w Dark Surface (F22)
	Matrix (S6)	-	 Marl (F10) (LR	•	,			lain in Remarks)
Dark Su	rface (S7)	-						
2								
		ion and we	etland hydrology m	ust be p	resent, ur	iless dist	urbed or problematic	
Type:	Layer (if observed):							
-							l hudaia Cail Das santi	
	nches):						Hydric Soil Present?	? Yes <u>X</u> No
Remarks:								



Project/Site: CHPE Package 6	City/County: Selkirk Sampling Date: 11/22/2021
Applicant/Owner: CHA	State: NY Sampling Point: OA-1 UP
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):	Local relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.5152	2 Long: -73.81183 Datum:
Soil Map Unit Name:	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this time	of year? Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> significa	antly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>No</u> , Soil <u>No</u> , or Hydrology <u>No</u> naturall	y problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present?	Yes	No <u>X</u>	Is the Sampled Area
Hydric Soil Present?	Yes	No X	within a Wetland? Yes No X
Wetland Hydrology Present?	Yes	No X	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedu Upland for WL OA	res here or in a	a separate report.)	
HYDROLOGY			
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)	Wa	ter-Stained Leaves	s (B9) Drainage Patterns (B10)
High Water Table (A2)		uatic Fauna (B13)	Moss Trim Lines (B16)
Saturation (A2)	Ma	d Doposito (P15)	Dry Seesen Water Table (C2)

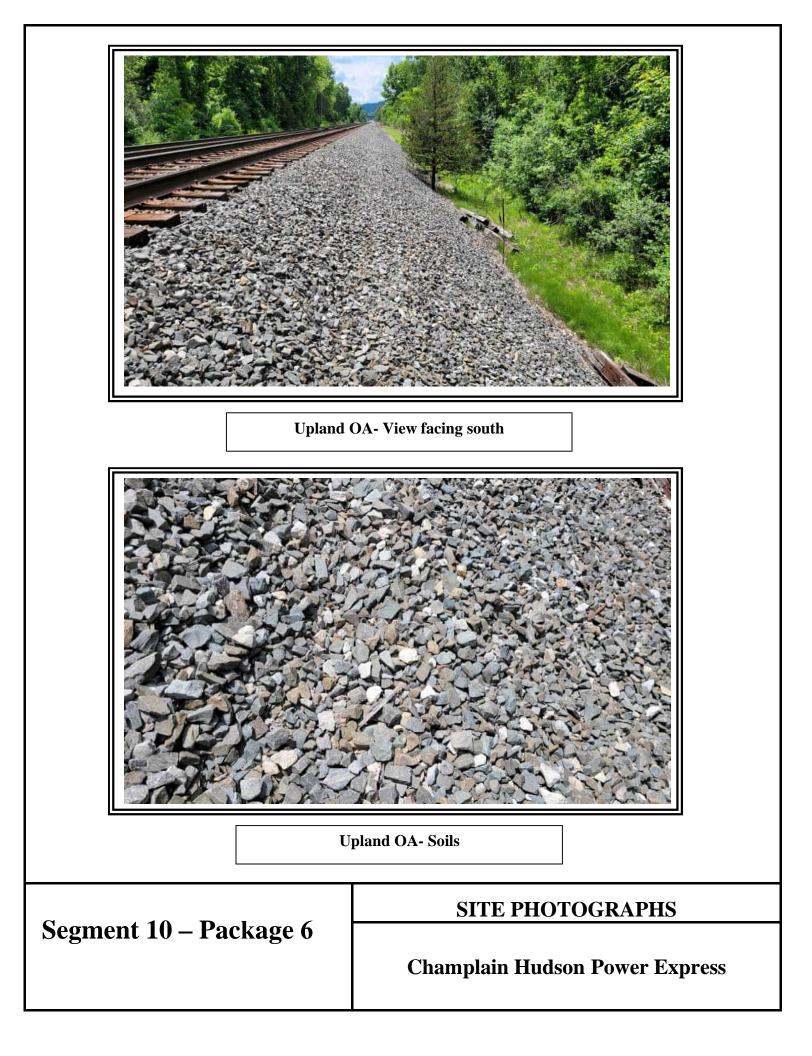
Saturation (A3)		Mar	Deposits (B15)	_	Dry-Season Water Table (C2)			
Water Marks (B1)		Hyd	)	Crayfish Burrows (C8)				
Sediment Deposits (B2)	)	Oxic	iving Roots (C3)	Saturation Visible on A	Aerial Imagery (C9)			
Drift Deposits (B3)		Pres	sence of Reduced Iron (	C4)	Stunted or Stressed P	lants (D1)		
Algal Mat or Crust (B4)		Rec	ent Iron Reduction in Til	led Soils (C6)	Geomorphic Position (	(D2)		
Iron Deposits (B5)		Thin	Muck Surface (C7)	-	Shallow Aquitard (D3)			
Inundation Visible on A	ərial Imagery (B <sup>.</sup>	7) Othe	-	Microtopographic Relief (D4)				
Sparsely Vegetated Co	ncave 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 <u>No X</u>		
(includes capillary fringe)								
Describe Recorded Data (st	ream gauge, mo	onitoring we	ell, aerial photos, previo	us inspections), if a	vailable:			
Remarks:								

Sampling Point: OA-1 UPL

	Absolute	Dominant	Indicator	
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Quercus rubra	40	Yes	FACU	Number of Dominant Species
2. Acer saccharinum	20	Yes	FACW	That Are OBL, FACW, or FAC:(A)
3. <u>Acer saccharum</u>	10	No	FACU	Total Number of Dominant
4				Species Across All Strata: 4 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 25.0% (A/B)
7				Prevalence Index worksheet:
	70	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species x 1 =
1. Lonicera	30	Yes	FACU	FACW species 20 x 2 = 40
2				FAC species x 3 =
3				FACU species 88 x 4 = 352
4				UPL species 0 x 5 = 0
5				Column Totals: 108 (A) 392 (B
6				Prevalence Index = B/A = 3.63
7				Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5 )				2 - Dominance Test is >50%
1. Fragaria virginiana	8	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2.				4 - Morphological Adaptations <sup>1</sup> (Provide supportir
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.				
	8	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 )				
1.				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 photo numbers here or on a sepa				L
	เลเซ รักษยเ.)			

SOIL	
------	--

(in almon)	Matrix		Redox	Featur	es			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16	10yr 4/3	100					Loamy/Clayey	
							·	
		<u> </u>						
							·	
	oncentration, D=Depl	etion RM	=Reduced Matrix_M		kod San	Graine	<sup>2</sup> Location: P	PL=Pore Lining, M=Matrix.
Hydric Soil I					Keu Jan	dialitis.		or Problematic Hydric Soils <sup>3</sup> :
Histosol (			Polyvalue Belov	∧ Surfa	ce (S8) (I	RR R.		uck (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)	-	MLRA 149B)			,		rairie Redox (A16) (LRR K, L, R)
Black His			Thin Dark Surfa		) (LRR R	MLRA <sup>2</sup>		ucky Peat or Peat (S3) (LRR K, L, R
	n Sulfide (A4)	-	High Chroma S					ue Below Surface (S8) (LRR K, L)
	Layers (A5)	-	Loamy Mucky N					rk Surface (S9) (LRR K, L)
	Below Dark Surface	e (A11)	Loamy Gleyed			• ,		nganese Masses (F12) ( <b>LRR K, L, F</b>
	rk Surface (A12)		Depleted Matrix					nt Floodplain Soils (F19) ( <b>MLRA 14</b> 9
Sandy M	ucky Mineral (S1)		Redox Dark Su	rface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149</b>
Sandy G	leyed Matrix (S4)	_	Depleted Dark	Surface	(F7)		Red Par	rent Material (F21)
Sandy Re	edox (S5)	_	Redox Depress	ions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)	-	Marl (F10) (L <b>RI</b>	<b>R K, L</b> )			Other (E	Explain in Remarks)
Dark Sur	face (S7)							
<b>`</b>								
		ion and we	etland hydrology mu	st be p	resent, ur	nless dist	urbed or problematic.	
	_ayer (if observed):							
Туре:								
Denth (in	iches):						Hydric Soil Prese	nto Van Na v
Debru (iii								nt? YesNox_
Remarks:								



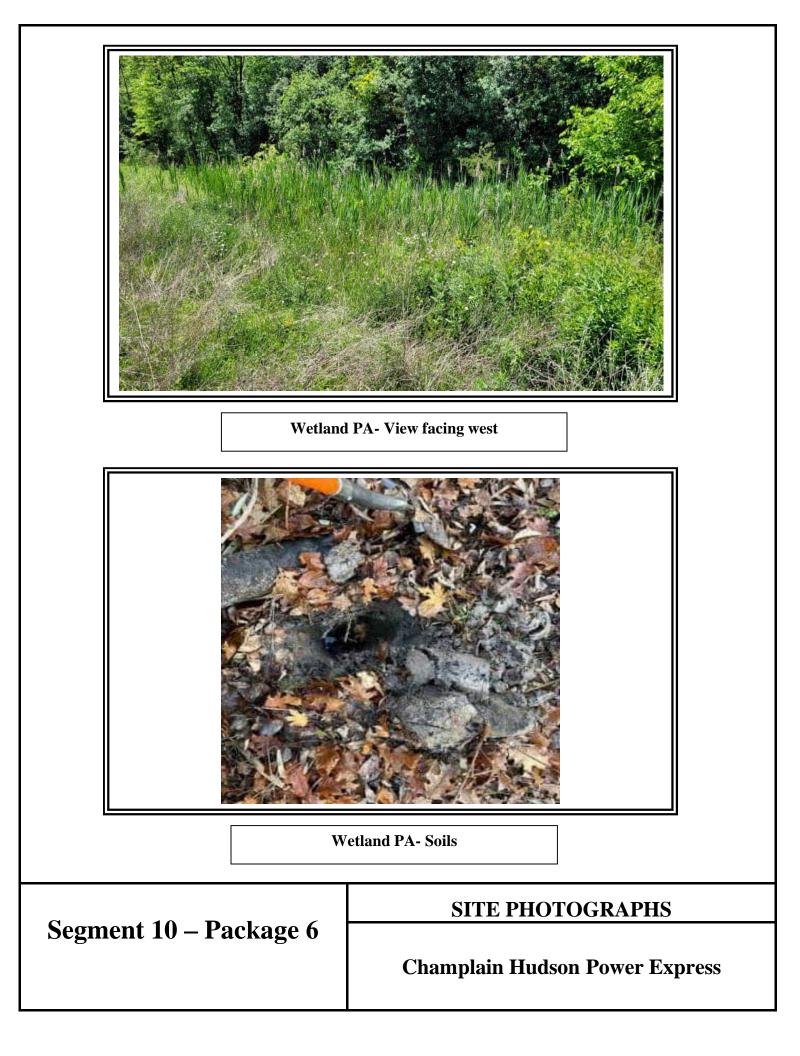
Project/Site: CHPE Package 6	City/County: Selkirk Sampling Date: 11/22/21
Applicant/Owner: CHA	State: NY Sampling Point: PA-5
Investigator(s): Nick Dominic/Justin Williams	Section, Township, Range:
Landform (hillside, terrace, etc.):Local	relief (concave, convex, none): Slope %:
Subregion (LRR or MLRA): LRR R, MLRA 144B Lat: 42.51170	Long: -73.81416 Datum: NAD83
Soil Map Unit Name:	NWI classification: PFO/PEM
Are climatic / hydrologic conditions on the site typical for this time of year?	Yes X No (If no, explain in Remarks.)
Are Vegetation <u>No</u> , Soil <u>N</u> , or Hydrology <u>N</u> significantly distur	Ded? Are "Normal Circumstances" present? Yes X No
Are Vegetation <u>N</u> , Soil <u>N</u> , or Hydrology <u>N</u> naturally problema	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present?       Yes       X       No         Hydric Soil Present?       Yes       X       No         Wetland Hydrology Present?       Yes       X       No	Is the Sampled Area within a Wetland? Yes X No If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Wetland PA	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)

Primary Indicators (minimul	Surface Soll Cracks (B6)							
X Surface Water (A1)		Water	-Stained Leaves (B9)		Drainage Patterns (B10)	Drainage Patterns (B10)		
X High Water Table (A2)		Moss Trim Lines (B16)						
Saturation (A3)		Marl E	Marl Deposits (B15) Dry-Season Water Table (C2)					
Water Marks (B1)		Hydro	gen Sulfide Odor (C1)		Crayfish Burrows (C8)			
Sediment Deposits (B2	)	Oxidiz	ed Rhizospheres on Living	Roots (C3)	Saturation Visible on Aerial Imager	у (С9)		
Drift Deposits (B3)		X Prese	nce of Reduced Iron (C4)		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)		Recer	nt Iron Reduction in Tilled So	oils (C6)	Geomorphic Position (D2)			
Iron Deposits (B5)		Thin N	/luck Surface (C7)		Shallow Aquitard (D3)			
Inundation Visible on A	erial Imagery	(B7) Other	(Explain in Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Co	ncave Surfac	æ (B8)			FAC-Neutral Test (D5)			
Field Observations:								
Surface Water Present?	Yes X	No	Depth (inches): 2					
Water Table Present?	Yes X	No	Depth (inches): 6	•				
Saturation Present?	Yes	No X	Depth (inches):	Wetlan	d Hydrology Present? Yes_X	No		
(includes capillary fringe)				-				
Describe Recorded Data (s	tream gauge	, monitoring well	, aerial photos, previous ins	pections), if a	available:			
Remarks:								

Sampling Point: PA-5

	Absolute	Dominant	Indicator	Deminente Technomischer (
<u>Tree Stratum</u> (Plot size: <u>30</u> )	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	40	Yes	FACW	Number of Dominant Species
2				That Are OBL, FACW, or FAC:5(A)
3				Total Number of Dominant
4				Species Across All Strata: 5 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC:00.0% (A/B)
7				Prevalence Index worksheet:
	40	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15 )				OBL species 20 x 1 = 20
1. Cornus sericea	40	Yes	FACW	FACW species 160 x 2 = 320
2				FAC species x 3 =
3				FACU species 0 x 4 = 0
4.				UPL species 0 x 5 = 0
5.				Column Totals: 180 (A) 340 (B)
6.				Prevalence Index = $B/A = 1.89$
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
<u>Herb Stratum</u> (Plot size: 5 )				X 2 - Dominance Test is >50%
1. Phragmites australis	50	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
3. Lysimachia nummularia	30	Yes	FACW	
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				Tree – 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		<u> </u>		Herb – All herbaceous (non-woody) plants, regardless
	100	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 )				Woody vines – All woody vines greater than 3.28 ft in
1.				height.
2.				
3.				Hydrophytic Vestation
4.				Vegetation Present? Yes x No
		=Total Cover	·	
Remarks: (Include photo numbers here or on a separ				
Remarks. (include proto numbers here of on a separ	ale sneet.)			

		to the dep				tor or co	onfirm the absence o	of indicators.)	
Depth (inches)	Matrix	0/		x Featur		1 a a <sup>2</sup>	Texture	Remarks	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-16	10yr 3/1	80	7.5yr 4/4	20			Loamy/Clayey	Prominer	nt
<u> </u>									
	oncentration, D=Dep	letion, RM	=Reduced Matrix, I	MS=Mas	ked Sand	l Grains.		PL=Pore Lining, M=Matri	
Hydric Soil			Debuselus Deb		aa (CO) /I			for Problematic Hydric	
X Histosol	(A1) bipedon (A2)		Polyvalue Belo MLRA 149E		ce (58) ( <b>I</b>	.KK K,		uck (A10) ( <b>LRR K, L, ML</b> Prairie Redox (A16) (L <b>RR</b>	
Black Hi			Thin Dark Sur					ucky Peat or Peat (S3) (I	
	n Sulfide (A4)		High Chroma					ue Below Surface (S8) (L	
	Layers (A5)		Loamy Mucky					rk Surface (S9) (LRR K,	
	Below Dark Surface	e (A11)	Loamy Gleyed			. ,		nganese Masses (F12) (	
Thick Da	ark Surface (A12)		X Depleted Matr	ix (F3)			Piedmo	nt Floodplain Soils (F19)	(MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark S	urface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144</b>	A, 145, 149B)
	ileyed Matrix (S4)		Depleted Dark	Surface	: (F7)			rent Material (F21)	
	edox (S5)		Redox Depres		8)			allow Dark Surface (F22	2)
	Matrix (S6)		Marl (F10) (L <b>R</b>	<b>RR K</b> , L)			Other (E	Explain in Remarks)	
Dark Su	rface (S7)								
<sup>3</sup> Indicators o	f bydronbytic vegetat	ion and w	etland bydrology m	ust be n	recent ur	loce diet	urbed or problematic.		
	Layer (if observed):		etiana nyarology m	ust be p	resent, ur	11635 0151			
Type:									
· · ·	nches):						Hydric Soil Prese	ent? Yes X	Νο
									<u> </u>
Remarks:									



Project/Site: CHPE		City/County: Coeymans/Albany	Sampling Date: 6.15.22
Applicant/Owner: TDI		State: NY	Sampling Point: PA-5 Upl
Investigator(s): John Greaves &	& Chris Einstein	Section, Township, Range:	
Landform (hillside, terrace, etc.):	Hillslope Local	relief (concave, convex, none): <u>Convex</u>	Slope %: 10
Subregion (LRR or MLRA): LR	RR R Lat: 42.511826	Long: -73.813720	Datum: NAD83
Soil Map Unit Name: HuB, HuC	Σ, HuD, HuE - Hudson silt loam	NWI classification	: NAD83
Are climatic / hydrologic conditio	ns on the site typical for this time of year?	Yes X No (If no,	explain in Remarks.)
Are Vegetation, Soil	, or Hydrologysignificantly disturb	bed? Are "Normal Circumstances" pres	sent? Yes X No
Are Vegetation, Soil	, or Hydrology naturally problema	atic? (If needed, explain any answers	in Remarks.)
SUMMARY OF FINDING	S – Attach site map showing sam	pling point locations, transects, i	important features, etc.
Hydrophytic Vegetation Presen	t? Yes No X	Is the Sampled Area	
Hydric Soil Present?	Yes No X	within a Wetland? Yes	No <u>X</u>
Wetland Hydrology Present?	Yes No X	If yes, optional Wetland Site ID:	
Railroad embankment. Upland	procedures here or in a separate report.) adjacent to Wetland flag PA-5		
HYDROLOGY			
Wetland Hydrology Indicators	\$2	Secondary Indicators	(minimum of two required)
Primary Indicators (minimum of	one is required; check all that apply)	Surface Soil Crac	ks (B6)
Surface Water (A1)	Water-Stained Leaves (E	· · · · · · · · · · · · · · · · · · ·	
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (	
Saturation (A3)	Marl Deposits (B15)	Dry-Season Wate	( )
Water Marks (B1)	Hydrogen Sulfide Odor (	· · · · · · · · · · · · · · · · · · ·	
Sediment Deposits (B2)	Oxidized Rhizospheres of	on Living Roots (C3) Saturation Visible	on Aerial Imagery (C9)

Drift Deposits (B3)		Preser		Stunted or Stressed Plants (D1)					
Algal Mat or Crust (B4)	)	Recen	t Iron Reduction in Tilled	Soils (C6) Geomorphic Position (D2)					
Iron Deposits (B5)		Thin M	luck Surface (C7)		Shallow Aquitard (D3)				
Inundation Visible on A	Aerial Imagery	(B7) Other	(Explain in Remarks)		Microtopographic Rel	lief (D4)			
Sparsely Vegetated Co	oncave Surface	e (B8)			FAC-Neutral Test (D5	5)			
Field Observations:									
Surface Water Present?	Yes	No <u>X</u>	Depth (inches):						
Water Table Present?	Yes	No X	Depth (inches):						
Saturation Present?	Yes	No X	Depth (inches):	Wetland	d Hydrology Present?	Yes	No X		
(includes capillary fringe)									
Describe Recorded Data (s	stream gauge,	monitoring well,	aerial photos, previous ir	nspections), if a	vailable:				
Remarks:									

Presence of Reduced Iron (C4)

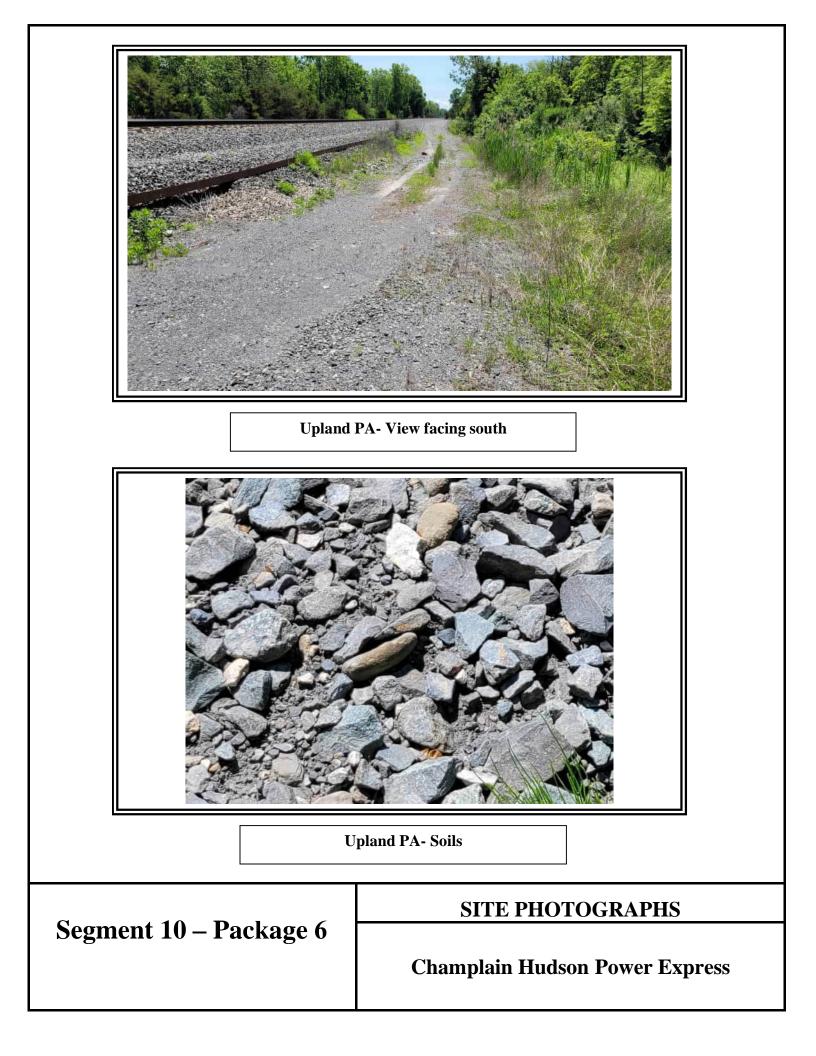
Drift Deposits (B3)

Stunted or Stressed Plants (D1)

Sampling Point: PA-5 Upl

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
<ol> <li>Juniperus virginiana</li> <li>2.</li> </ol>	5	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:1 (A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
5		·		Percent of Dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
7.				Prevalence Index worksheet:
	5	=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.		- <u> </u>		FAC species $20 \times 3 = 60$
		·		FACU species 9 x 4 = 36
		·		UPL species $0 \times 5 = 0$
		. <u> </u>		Column Totals: 29 (A) 96 (B)
		·		
6		. <u> </u>		Prevalence Index = B/A = <u>3.31</u>
7				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				2 - Dominance Test is >50%
1. Equisetum arvense	20	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Solidago canadensis	2	No	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Ambrosia artemisiifolia	2	No	FACU	data in Remarks or on a separate sheet)
4		<u> </u>		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6.				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				Sapling/shrub – Woody plants less than 3 in. DBH
11				and greater than or equal to 3.28 ft (1 m) tall.
12		<u> </u>		Herb – All herbaceous (non-woody) plants, regardless
	24	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30 )				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2.				
3.		·		Hydrophytic
				Vegetation Present? Yes No X
4		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

		o the de				tor or co	nfirm the absence of inc	dicators.)	
Depth	Matrix			x Featu		. 2	_		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	S
					· <u> </u>				
							<u> </u>		
		_		_					
					·				
	oncentration, D=Depl	etion, RN	Reduced Matrix, M	IS=Mask	ed Sand	Grains.		Pore Lining, M=Matri	
Hydric Soil I								Problematic Hydric	
Histosol			Polyvalue Belo		ce (S8) ( <b>I</b>	_RR R,		(A10) ( <b>LRR K, L, M</b>	
	pipedon (A2)		MLRA 149B	,				ie Redox (A16) ( <b>LRF</b>	
Black His			Thin Dark Surf					y Peat or Peat (S3) (	
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRF</b>	R K, L)	Polyvalue E	Below Surface (S8) (I	LRR K, L)
Stratified	Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LRF</b>	R K, L)	Thin Dark S	Surface (S9) (LRR K	, L)
Depleted	Below Dark Surface	e (A11)	Loamy Gleyed	Matrix (	F2)		Iron-Manga	anese Masses (F12)	(LRR K, L, R)
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmont F	loodplain Soils (F19)	) (MLRA 149B)
Sandy M	lucky Mineral (S1)		Redox Dark Su	urface (F	6)		Mesic Spoo	dic (TA6) ( <b>MLRA 144</b>	IA, 145, 149B)
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	(F7)		Red Parent	t Material (F21)	
Sandy R	edox (S5)		Redox Depres	sions (F	8)		Very Shallo	w Dark Surface (F22	2)
Stripped	Matrix (S6)		Marl (F10) (LR	R K, L)			Other (Exp	lain in Remarks)	
Dark Sur	face (S7)								
<sup>3</sup> Indicators of	f hydrophytic vegetati	on and w	etland hydrology mu	st be pre	esent, unl	ess distu	rbed or problematic.		
Restrictive L	_ayer (if observed):								
Type:									
Depth (ir	nches):						Hydric Soil Present?	Yes	No X
Remarks: Soils consist	of railroad ballast.								
00113 00113131	or railfoad ballast.								



Project/Site: CHPE	City/County: Selkirk/Albany Sampling Date: 6.13.22
Applicant/Owner: TDI	State: NY Sampling Point: PA-3 Wet
Investigator(s): John Greaves & Chris Einstein	Section, Township, Range:
Landform (hillside, terrace, etc.): Hillslope	Local relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: <u>42.511992</u> Long: <u>-73.813852</u> Datum: <u>NAD83</u>
Soil Map Unit Name: HuB, HuC, HuD, HuE - Hu	Ison silt loamNWI classification: PFO1
Are climatic / hydrologic conditions on the site typ	cal 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	e map showing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Ye	X No Is the Sampled Area
Hydric Soil Present? Ye	X No within a Wetland? Yes X No
Wetland Hydrology Present? Ye	X No If yes, optional Wetland Site ID: Near flag PA-3

Remarks: (Explain alternative procedures here or in a separate report.) Red maple hardwood swamp.

#### HYDROLOGY

Wetland Hydrology Indicators:			Secondary Indicators (minimum of two required)		
Primary Indicators (minimum of one is require	Surface Soil Cracks (B6)				
Surface Water (A1)	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)	X Oxidized Rhizospheres on Living Ro	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)	X Geomorphic Position (D2)		
Iron Deposits (B5)	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	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes X	No Depth (inches): 0	Wetlan	d Hydrology Present? Yes X No		
(includes capillary fringe)	]				
Describe Recorded Data (stream gauge, mor	itoring well, aerial photos, previous inspec	ctions), if a	vailable:		
Remarks:					

Sampling Point: PA-3 Wet

Tree Stratum (Plot size: 30 )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	40	Yes	FACW	Number of Dominant Species
2. Ulmus americana	15	Yes	FACW	That Are OBL, FACW, or FAC: 7 (A)
3. Populus deltoides	15	Yes	FAC	Total Number of Dominant
4.				Total Number of Dominant         Species Across All Strata:         7         (B)
5				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	)			$\begin{array}{c c} \hline \\ \hline $
1. Fraxinus pennsylvanica	-' 15	Yes	FACW	FACW species 195 $x 2 = 390$
2. Cornus amomum	_ <u>10</u>	Yes	FACW	FAC species $30 \times 3 = 90$
3. Rhamnus cathartica	<u>15</u>	Yes	FAC	FACU species $0   x 4 = 0$
	15	165		
4				$\begin{array}{c c} UPL \text{ species} & 0 & x 5 = & 0 \\ 0 & x 5 = & (1) & (1) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) & (2) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) & (2) & (2) & (2) & (2) \\ 0 & x 5 = & (2) & (2) & (2) & (2) & (2) & (2) & (2) & (2) & (2) \\ 0 & x 5 & (2) & ($
5				Column Totals: 225 (A) 480 (B)
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
	45	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5)				X 2 - Dominance Test is >50%
1. Impatiens capensis	80	Yes	FACW	X 3 - Prevalence Index is $\leq 3.0^{1}$
2. Lysimachia nummularia	20	No	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
3. Fraxinus pennsylvanica	5	No	FACW	data in Remarks or on a separate sheet)
4. Ribes americanum	5	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
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.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
				<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
	110	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size: 30	_)			Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3				Hydrophytic Vegetation
4				Present? Yes X No
4.		=Total Cover		

#### SOIL

Depth	 Matrix	•		x Featur			onfirm the absence of		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Ren	narks
0-8	10YR 4/1	80	10YR 4/4	20	С	pl	Loamy/Clayey	Distinct redox concentration	
8-20	10YR 4/1	60	10YR 4/3	30	C		Loamy/Clayey	Distinct redox	concentrations
			10YR 4/6	10	C	<u>m</u>		Prominent redo	x concentrations
							·		
1= 0.0									
'Type: C=C Hydric Soil	oncentration, D=Dep	letion, RM	=Reduced Matrix, N	/IS=Masl	ked Sand	Grains.		L=Pore Lining, M=I or Problematic Hy	
Black H Hydroge Stratified Depletee Thick Da Sandy N Sandy C Sandy F Dark Su	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) d Matrix (S6) irface (S7)		Polyvalue Belo MLRA 149B Thin Dark Surf High Chroma S Loamy Mucky Loamy Gleyed X Depleted Matri Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LR	) Sands (S9) Mineral ( Matrix (I x (F3) urface (F Surface sions (F8 <b>R K, L</b> )	6) (LRR R (F1) (LRI (F1) (LRI (F2) 6) (F7) 3)	, MLRA <sup>2</sup> R K, L) R K, L)	Left Coast Print Coast Print Coast Print Polyvalu Coast Print Dar Polyvalu Thin Dar Iron-Mar Piedmon Mesic Sp Red Pare Very Sha	ick (A10) ( <b>LRR K, I</b> rairie Redox (A16) ( icky Peat or Peat (S e Below Surface (S k Surface (S9) ( <b>LR</b> nganese Masses (F nganese Masses (F nt Floodplain Soils ( bodic (TA6) ( <b>MLRA</b> ent Material (F21) allow Dark Surface xplain in Remarks)	LRR K, L, R) 63) (LRR K, L, R) 68) (LRR K, L) R K, L) 12) (LRR K, L, R) F19) (MLRA 149B 144A, 145, 149B)
	Layer (if observed):				,				
Type: Depth (i							Hydric Soil Preser	nt? Yes	Νο
	rm is revised from No 2015 Errata. (http://v						2.0 to include the NR0 2p2_051293.docx)	CS Field Indicators	of Hydric Soils,