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

# Wetland & Waterbodies Delineation Report



## Champlain Hudson Power Express Segment 6-Package 4A

**Ballston Spa - Glenville, New York** 

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#### 1.0 INTRODUCTION

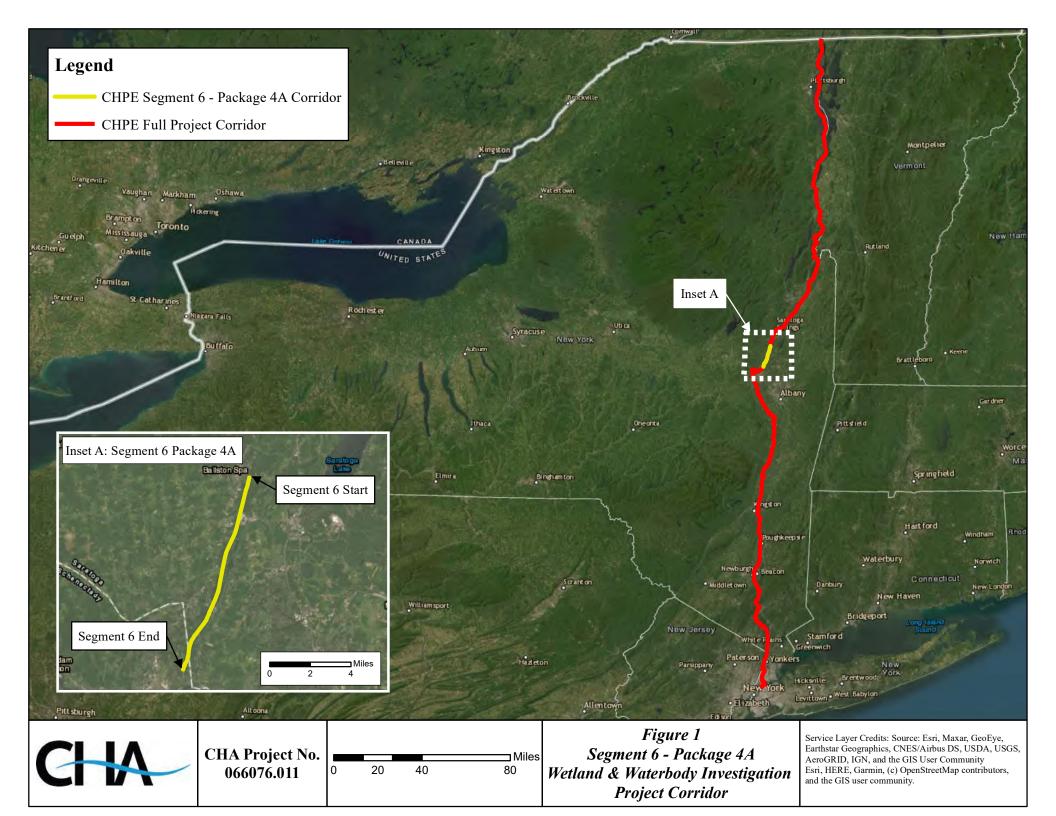
CHA Consulting, Inc. ("CHA") has prepared this wetland delineation report on behalf of Champlain Hudson Power Express, Inc. ("CHPE") and Kiewit Construction (Kiewit) for the Champlain Hudson Power Express Project (Project). CHA was retained by Kiewit to identify and delineate jurisdictional wetlands and waterbodies regulated under Section 404 of the Clean Water Act (CWA), Section 10 of the Rivers and Harbors Act of 1899, Article 24 Freshwater Wetlands Act (FWW) & Article 15 (Protection of Waters) of the Environmental Conservation Law along the overland transmission cable route that generally follows Canadian-Pacific ("CP") railroad and National Grid rights-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 (also defined as the Jurisdictional Determination [JD] limits) during field surveys for the overland portions of the Project.



#### 2.0 SEGMENT 6-PACKAGE 4A 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 10.2 miles of the Segment 6-Package 4A Project Corridor that was investigated for wetlands and waterbodies.

Segment 6-Package 4A begins in the Village of Ballston Spa, NY at station 40001+00 on CP railroad and extends 10.2 miles south generally along the railroad and National Grid ROWs to the Town of Glenville, NY, ending at station 40543+31.



#### 3.0 WETLAND DELINEATION METHODOLOGY

To determine the potential for wetland impacts from construction of the Project, CHA assessed the Segment 6-Package 4A 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. Greenman Pedersen, Inc. (GPI) and Fisher Associates (Fisher) assisted with the field work. Wetland scientists conducted wetland delineations in December 2021, January 2023, and April 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 railroad and National Grid ROWs. The wetland delineation limits were approximately 100 feet from the proposed alignment, limited to the side of the corridor on which the alignment follows and primarily within the railroad and National Grid ROWs.

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 (e.g. 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 Project Corridor fall under the jurisdiction of the USACE and/or the New York State Department of Environmental Conservation (NYSDEC). The New York State methodology similarly recognizes the three wetland 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, both agencies use field delineations to determine the precise boundaries of these wetland areas.

Prior to 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 wetland parameters (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 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 perennial and intermittent streams as applicable. 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 Project Corridor along the current proposed underground transmission cable route. Wetland determination data forms and photographic documentation of the wetlands are included in Attachment 1. 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.

#### 4.0 WETLAND & WATERBODIES DELINEATION RESULTS

A total of 48 wetland areas totaling approximately 19.7 acres were identified within the 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, fifteen (15) wetlands delineated along the Project Corridor correspond with wetlands mapped by the NYSDEC. These include NYSDEC mapped wetlands R-50, R-3, R-11, R-18, B-31, BH-6 and S-105.

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>1</sup> and *Classification of Wetlands and Deepwater* 

<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.



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 Project Corridor: palustrine emergent (PEM), palustrine scrub-shrub (PSS), and palustrine forested (PFO) wetlands. Some wetlands contained co-dominant emergent, scrub-shrub, or forested vegetation.

#### 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 Corridor primarily include shallow emergent marshes, common reed marshes and purple loosestrife marshes (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 six 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.), jewelweed (*Impatiens capensis*), goldenrod (*Solidago* spp.), new England aster (*Symphyotrichum novae-angliae*), willow herb (*Epilobium coloratum*), American water plantain (*Alisma subcordatum*), yellow marsh marigold (*Caltha palustris*), tussock sedge (*Carex stricta*), dark green bulrush (*Scirpus atrovirens*), reed canary grass (*Phalaris arundinacea*), arrow leaf tearthumb (*Persicaria sagittata*), wrinkle-leaf goldenrod (*Solidago rugosa*), blueflag (*Iris versicolor*), swamp milkweed (*Asclepias incarnata*), devil's pitchfork (*Bidens frondosa*), sensitive fern (*Onoclea sensibilis*), soft rush (*Juncus effusus*), wool grass (*Scirpus cyperinus*) and common duckweed (*Lemna minor*). Invasive species observed within the shallow emergent marshes include common reed (*Phragmites australis*), honeysuckle (*Lonicera* spp.), reed canary grass, common buckthorn (*Rhamnus cathartica*), multi-flora rose (*Rosa multiflora*) and purple loosestrife (*Lythrum salicaria*).

<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.



Common reed marsh and 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 rail bed.

Linear wetland ditches, which have been constructed for drainage, are commonly found along the railroad ROW. Vegetation within the ditches is typically dominated by invasive species such as common reed, purple loosestrife, cattail and reed canary grass; however, some areas may be dominated by native non-invasive wetland species such as tussock sedge, devil's pitchfork, and American water plantain.

#### 4.1.2 Palustrine Scrub-Shrub Wetland

The scrub-shrub wetland cover type includes areas that are dominated by saplings and shrubs that are less than 6 meters tall (Cowardin et. al., 1979). Scrub-shrub wetlands along the Project Corridor are dominated by silky dogwood (*Cornus amomum*), speckled alder (*Alnus incana*), gray dogwood (*Cornus racemosa*), red osier dogwood (*Cornus sericea*) and honeysuckle. Invasive species observed within scrub-shrub wetlands includes honeysuckle, purple loosestrife, multi-flora rose, common reed, common buckthorn and reed canary grass. 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. In order 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. 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 ash (*Fraxinus pennsylvanica*), American elm (*Ulmus americana*), Eastern cottonwood (*Populus deltoides*), northern red oak (*Quercus rubra*), swamp white oak (*Quercus bicolor*), red maple (*Acer rubrum*) and eastern hemlock (*Tsuga canadensis*). Shrub species commonly observed within red maple-hardwood swamps include dogwoods, speckled alder, white willow (*Salix alba*), common buckthorn, European barberry (*Berberis vulgaris*), arrow-wood (*Viburnum recognitum*) and honeysuckle. The herbaceous layer typically includes sensitive fern, cattail, moneywort (*Lysimachia nummularia*), cinnamon fern (*Osmundastrum cinnamomeum*), tussock sedge, lurid sedge (*Carex lurida*), eastern marsh fern (*Thelypteris palustris*), jack in the pulpit (*Arisaema triphyllum*), fringed yellow loosestrife (*Lysimachia ciliata*), greater bladder sedge (*Carex intrumescens*), field horsetail (*Equesitum arvense*), royal fern (*Osmunda spectabilis*) and goldenrod. Invasive species observed within red maple-hardwood forests included honeysuckle, purple loosestrife, European barberry, common reed, multi-flora rose and common buckthorn.

Hemlock-northern hardwood swamp is a mixed forest that typically occurs on middle to lower slopes of ravines on moist well drained sites on the margins of swamps and mid-elevation slopes. Eastern hemlock is co-dominant with other various tree species (Edinger et. al, 2014). Species observed include eastern hemlock, American elm, spicebush (*Lindera benzoin*), gray birch (*Betula populifolia*), jewelweed and sensitive fern.

#### 4.2 HYDROLOGY

#### 4.2.1 Streams

Table 4-2 lists 44 streams (perennial (7), intermittent (37)) identified within the Project Corridor. The overland transmission cable route for the Project Corridor is located within the Upper Hudson River Basin and in the Mohawk River Basin.

The Upper Hudson River Basin originates in the Adirondack Mountains and flows south to the Hudson River confluence with the Mohawk River at the Troy Dam (NYSDEC 2022). Perennial streams within the Project Corridor in the Upper Hudson Basin include the Mourning Kill as well as unnamed tributaries connected to these watersheds identified on USGS Topographic Maps and/or identified during the field delineation.

The Mohawk River Basin watershed originates in the valley between the western Adirondacks and the Tug Hill Plateau. It flows east where it joins the Hudson River (NYSDEC 2022). Perennial streams within the Project Corridor in the Mohawk River Basin include the Alplaus 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 include surface water (A1), high water table (A2), saturation (A3), sediment deposits (B2), iron deposits (B5), sparsely vegetated concave surface (B8), water-stained leaves (B9), drainage patterns (B10), moss trim lines (B16), hydrogen sulfide odor (C1), oxidized rhizospheres on living roots (C3), saturation visible on aerial imagery (C9), geomorphic position (D2), shallow aquitard (D3), microtopographic relief (D4) and FAC-neutral test (D5) (see Attachment 1). Hydrologic factors contributing to the presence of wetland hydrology within wetlands in the Project Corridor include inundation with stream water, temporarily ponded runoff, and seasonally to permanently shallow groundwater tables.

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

#### 4.3 SOILS

The NRCS soil map units for the Project Corridor are provided in Attachment 3. Indicators of hydric soils include muck or evidence of gleyed colors. Hydric soil indicators include histic epipedon (A2), black histic (A3), hydrogen sulfide (A4), depleted below dark surface (A11), sandy mucky mineral (S1), sandy redox (S5), stripped matrix (S6), dark surface (S7), thin dark surface (S9), loamy gleyed matrix (F2), depleted matrix (F3), redox dark surface (F6), depleted dark surface (F7), and redox depressions (F8) (Attachment 1). Within the Project Corridor, a total of 38 different soil types are mapped by the NRCS. The mapped soil types range from well drained

to very poorly drained soils. According to the soil map descriptions (Attachment 3), nine (9) of the soils mapped within the Project Corridor are rated as hydric soils (Allis silt loam, Fluvaquents frequently flooded, Fluvaquents loamy, Fredon silt loam, Ilion silt loam, Palms muck, Sun silt loam and Wayland soils complex). Section 4.4 provides abbreviated soils descriptions. 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 (Attachment 4) summarizes the soil series in the Project Corridor and lists the soils that are classified as hydric (or associated with wetland hydrology).

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 road and railroad construction and operation, are common within the Project Corridor. These 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 2022). Soils survey mapping and additional information regarding relevant soil characteristics are provided in Attachment 3.

#### Allis Series (As)

These are moderately deep, poorly drained soils formed in till material. These soils are typically found on till plains and less frequently on lake plains. Slopes can range from zero to two percent. The A horizon is typically a dark grayish brown clay loam, with moderate fine granular structure, extending zero to six inches deep. The B horizon generally is grayish brown clay loam with weak fine and medium subangular blocky structure. This horizon also has very fine roots and can be extremely acidic. The C horizon consists of weathered shale bedrock at depths of 28 to 31 inches. Past this layer is the R horizon consisting of shale bedrock sometimes interbedded with sandstone or siltstone.

#### Broadalbin Series (BtB, BvB & BvC)

These are very deep, well and moderately well drained soils formed in an eolian mantle and the underlying till. These soils are typically found on till plains. Slopes can range from zero to 40 percent. The A horizon is typically a dark brown fine sandy loam with moderate medium granular structure, extending zero to nine inches deep. The B horizon generally is brown fine sandy loam with moderate fine and medium subangular blocky structure. The C horizon is dark grayish brown gravelly fine sandy loam with massive moderate to medium plate-like divisions.

#### Burdett Series (BvA, BvB & BxB)

These very deep, somewhat poorly drained soils formed in till that is dominated by shale. The soils formed in silty mantles that overlie till that is strongly influenced by shale. Slopes range from zero to 25 percent. The A horizon is dark grayish brown silt loam and is from zero to nine inches. The structure is granular. An E horizon is sometimes present. The B horizon is brown, grayish brown or yellowish brown. The texture is silt loam and the structure is very weak fine subangular blocky. The C horizon is typically a dark grayish or olive gray brown channery silty clay loam extending from 28 to 72 inches.

#### Colonie Series (CoA & CoC)

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 zero to 60 percent. The A horizon is dark grayish brown loamy fine sand with weak fine and very fine granular structure extending zero to eight 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.

#### **Deerfield Series (DeA & DeB)**

These are very deep, moderately well drained soils formed in glaciofluvial deposits. They are nearly level to strongly sloping soils occurring on terraces, deltas, and outwash plains. Slopes range

from zero to 15 percent. The A horizon is very dark brown loamy fine sand with weak fine and medium granular structure, extending from zero to nine inches. The B horizon is composed of strong brown to yellowish-brown loamy fine sand, with weak very fine to medium granular to subangular blocky structure. The C horizon is a light brownish gray loamy fine sand with stratified texture of gravel, coarse sand, or loamy coarse sand.

#### Fluvaquents (Fl & FL)

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.

#### Fredon Series (Fr)

These very deep, poorly drained and somewhat poorly drained soils formed in glaciofluvial materials. They are found on outwash terraces and outwash plains. Slopes range from zero to eight percent. The A horizon is very dark gray loam, fine sandy loam, very fine sandy loam, or silt loam with weak fine granular structure. The B horizon is grayish brown loam, fine sandy loam, very fine sandy loam, or silt loam. Its structure is weak or moderate subangular blocky, weak coarse prismatic, or moderate coarse platy. The C horizon is dark grayish brown coarse sand to loamy fine sand and is commonly stratified. It may be calcareous or noncalcareous.

#### **Hamlin Series (Ha)**

These very deep, well drained soils formed in alluvium on flood plains and high bottoms. Slopes range from zero to three percent. The A horizon is dark gray silt loam with moderate coarse and medium granular structure. The B horizon is dark grayish brown or brown silt loam with weak or moderate granular, subangular blocky or prismatic structure. The C horizon is dark grayish brown silt loam and is massive or it has weak platy structure from fine stratification.

#### Ilion Series (In & IIA)

These very deep or very deep poorly drained soils formed in till which is strongly influenced by limestone or calcareous black shale and grayish shale. Slopes range from zero to eight percent. The A horizon is typically very dark gray silt loam with moderate fine and medium granular

structure. The E horizon is light gray to gray silt loam and has a fine subangular blocky structure. The B horizon is typically a dark grayish brown silty clay loam. The structure is moderate, medium and course subangular blocky. The C horizon is very dark grayish brown with channery silt loam texture with weak thick plate-like divisions.

#### Manlius Series (MnB)

These are moderately deep, well drained to 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 20 to 40 inches. They are found on foot slopes, summits, shoulders, and backslopes of ridges and hills on glaciated uplands. Slopes range from zero to 70 percent. The A horizon is dark grayish brown channery silt loam with dry, moderate fine granular structure to a depth of three inches. The B horizon is composed of a yellowish-brown to olive brown channery to extremely channery silt loam with moderate fine and medium subangular blocky structure. The C horizon is a light olive brown extremely channery silt loam with 60 to 95 percent rock fragments, extending 20 to 36 inches. The R horizon is very dark gray thinly bedded and highly fractured shale and siltstone bedrock starting at 36 inches.

#### Mosherville Series (MvA, MvB & MxB)

These are very deep, somewhat poorly drained soils formed in loamy till derived from granite, gneiss, sandstone, and some dark shale in lower horizons. They are found on till plains. Slopes range from zero to eight percent. The A horizon is very dark grayish brown loam with moderate fine and medium granular structure, extending zero to nine inches. The B horizon, when present, is composed of a yellowish brown to brown loam to fine sandy loam. This horizon consists of weak granular to very weak fine and medium blocky structure. The C horizon is an olive brown fine sandy loam with moderate medium and thick plate-like divisions.

#### Nunda Series (NuB, NuC & NWC)

These very deep and deep, moderately well drained soils formed in a silty mantles that overlie till derived from clayey shale. They are generally found on upland till plains. Slopes range from zero to 35 percent. The A horizon is dark grayish brown silt loam with medium granular structure from zero to nine 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.

#### Oakville Series (OaA, OaB & OaC)

These are very deep and well drained or moderately well drained soils that were formed in water-sorted sand on glacial outwash plains, lake plains, and beach ridges. Slopes range from zero to 35 percent. The A horizon is dark yellowish brown with a loamy fine sand texture and granular structure. The B horizon is yellowish brown loamy fine sand with subangular blocky structure. The C horizon is typically yellowish brown with a sand or loamy fine sand texture.

#### Palms Series (Pm)

These very deep, very poorly drained soils formed in herbaceous organic material. The soils are thick and the underlying loamy deposits are in closed depressions on moraines, outwash plains, till plains, lake plains on hillside seep areas and backswamps of flood plains. Slopes are zero to six percent. The organic layers consist of black broken faced and rubbed muck. The mineral C horizon is grayish loam with masses of oxidized iron in the matrix; neutral in upper part, slightly effervescent; moderately alkaline in lower part.

#### 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 zero to 12 percent. The A horizon is dark grayish brown silt loam with moderate fine and medium granular structure, extending zero to six inches. The B horizon is composed of a 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 zero to

15 percent. The A horizon is very dark grayish brown silt loam with moderate medium granular structure to a depth of nine inches. The E horizon, when present, is grayish brown silty clay loam with weak medium subangular blocky structure, extending from nine 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.

#### Scio Series (ScA & ScB)

These are very deep, moderately well drained soils formed in eolian, lacustrine, or alluvial sediments dominated by silt and very fine sand. These soils occur on terraces, old alluvial fans, lake plains, outwash plains and lakebeds. Slopes range from zero to 25 percent. The A horizon is dark grayish brown silt loam with moderate fine granular structure extending from zero to nine inches. The B horizon is yellowish brown silt loam with weak fine to medium subangular blocky structure. The C horizon is typically brown to grayish brown silt to very gravelly loamy sand. This horizon is massive or single grain, and may have plate-like divisions.

#### Sun Series (Sn)

These are very deep, poorly drained soils formed in till derived primarily from limestone and sandstone with smaller amounts of schist, shale, and granite in some areas. These soils occur in low areas or depressions on till plains. Slopes range from zero to three percent. The A horizon is very dark gray loam with weak coarse granular structure extending from zero to nine inches. The B horizon is gray to brown gravelly fine sandy loam with weak medium subangular blocky structure. The C horizon is brown gravelly fine sandy loam with 30 percent rock fragments; common medium and fine faint yellowish-brown masses of iron accumulation extending from depths of 36 to 72 inches.

#### **Teel Series (Te)**

These are very deep, moderately well drained soils formed in nearly level, silty alluvial deposits. They occur on floodplains. Slopes range from zero to three percent. The A horizon is very dark grayish brown silt loam with moderate medium granular structure from depths of zero to ten



inches. The B horizon is dark grayish brown to brown silt loam with weak or moderate subangular blocky or prismatic structure. The C horizon is dark grayish brown silt loam with massive or plate like divisions from fine stratification extending from depths of 38 to 72 inches.

#### Wayland Series (Wy)

These very deep, poorly drained and very poorly drained, nearly level soils formed in recent alluvium. These soils are found in low areas or slackwater areas on flood plains. Slope ranges from zero to three 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 Segment 6-Package 4A Project Corridor include shallow emergent marshes, common reed marshes, purple loosestrife marshes, scrub-shrub wetlands, and forested wetlands such as red maple-hardwood swamps. Ditches and watercourses, including small intermittent streams, are also present.

Land use in the Project Corridor is diverse, ranging from rural, agricultural, and forested areas to more developed areas. In general, because the Project is routed along existing railroad and National grid corridors, many wetlands within the Project Corridor are characterized by previous anthropogenic disturbance and/or the presence of invasive plant species. The Project Corridor frequently is located along the edge between the disturbed ROWs and more natural vegetated wetland communities that are present adjacent to the ROWs. 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 6-Package 4A Project Corridor are regulated by USACE (Section 10/404) and/or the 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, fifteen (15) delineated wetland areas are identified as regulated under Article 24. These wetlands correspond to seven (7) mapped wetlands (R-50, R-3, R-11, R-18, B-31, BH-6 and S-105) and they are regulated by NYSDEC. It is anticipated that USACE will take jurisdiction over all the delineated wetlands within the Project Corridor and NYSDEC will take jurisdiction over the fifteen (15) wetlands associated with the NYSDEC freshwater wetland. Final jurisdictional determinations will be made by the respective agencies.

#### 6.0 REFERENCES

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# 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/County: Milton/S	Saratoga	Sampling Date: 4/11/23	
Applicant/Owner: TDI			State: NY	Sampling Point: P3-A2 Wet	
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	<u> </u>	
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Concave	Slope %: 3	
Subregion (LRR or MLRA): LRR R	Lat: 43.005636		-73.838916	· Datum: DD	
Soil Map Unit Name: DeA - Deerfield loamy					
Are climatic / hydrologic conditions on the site				explain in Remarks.)	
		Yes X		,	
Are Vegetation, Soil, or Hydro			nal Circumstances" prese		
Are Vegetation, Soil, or Hydro	' <u></u>		d, explain any answers in	·	
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point locat	tions, transects, im	portant features, etc.	
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea		
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No	
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID: Wetland	P3-A2	
Remarks: (Explain alternative procedures he	ere or in a separate report.)				
Red maple hardwood swamp.					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)	
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks		
Surface Water (A1)	Water-Stained Leaves (B	9)	X Drainage Patterns (		
X High Water Table (A2)	Aquatic Fauna (B13)	,	Moss Trim Lines (B	·	
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (C	28)	
X Sediment Deposits (B2)	Oxidized Rhizospheres or	n Living Roots (C3)	Saturation Visible o	n Aerial Imagery (C9)	
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed		
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Positio		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	·	
Inundation Visible on Aerial Imagery (B7	· · ·	.s)	Microtopographic R		
Sparsely Vegetated Concave Surface (E			X FAC-Neutral Test (I	J5)	
Field Observations:	No V Donth (inches)				
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present?  Yes X  Saturation Present?  Yes X	No Depth (inches): _ No Depth (inches): _	11 10 Wetlan	d Hydrology Present?	Yes X No	
(includes capillary fringe)	МО Берит (шопоо)		a nyarology Fresent.	162 <u>V</u> 140	
Describe Recorded Data (stream gauge, mo	nitoring well. aerial photos, prev	vious inspections), if	available:		
, , ,	, , , , , , , , , , , , , , , , , , , ,	, ,,			
Remarks:					

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

<b>EGETATION</b> – Use scientific names of place	ants.			Sampling Point: P3-A2 Wet			
Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Acer rubrum	40	Yes	FAC	Number of Dominant Species			
2. Fraxinus pennsylvanica	20	Yes	FACW	That Are OBL, FACW, or FAC:7(A)			
3. Pinus strobus	5	No	FACU	Total Number of Deminant			
1. Rhamnus cathartica	5	No	FAC	Total Number of Dominant Species Across All Strata: 7 (B)			
5.				Descript of Deminant Chaping			
3.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B			
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. Fraxinus pennsylvanica	15	Yes	FACW	FACW species 75 x 2 = 150			
2. Acer rubrum	15	Yes	FAC	FAC species 80 x 3 = 240			
3. Rhamnus cathartica	10	Yes	FAC	FACU species 5 x 4 = 20			
4.				UPL species 0 x 5 = 0			
5.		,		Column Totals: 160 (A) 410 (E			
6.	ī-			Prevalence Index = B/A = 2.56			
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	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
Impatiens capensis	10	Yes	FACW	<ul> <li>4 - Morphological Adaptations<sup>1</sup> (Provide supporting)</li> </ul>			
3. Geum canadense	5	No	FAC	data in Remarks or on a separate sheet)			
4. Acer rubrum	5	No No	FAC	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		<u> </u>		Tree – Woody plants 3 in. (7.6 cm) or more in			
9				diameter at breast height (DBH), regardless of height			
10 11				Sapling/shrub – 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, regardles			
	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 i			
1				height.			
2.							
3.				Hydrophytic			
4.				Vegetation Present? Yes X No			
		. ——		<del></del>			
		=Total Cover					

SOIL Sampling Point P3-A2 Wet

Profile Desci Depth	ription: (Describe to Matrix	o the de	•	<b>ument tl</b> x Featur		ator or co	onfirm the absence o	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-8	10YR 3/2	100					Loamy/Clayey		
8-15	10YR 4/2	90	10YR 4/6	10	<u> </u>	<u>m</u>	Loamy/Clayey	Prominent redox cond	centrations
1- 0 0					. —		2, ,,		
	oncentration, D=Deple	etion, RN	/I=Reduced Matrix, N	<u>иS=Mas</u> l	ked Sand	d Grains.		PL=Pore Lining, M=Matrix	•
Hydric Soil I			Dark Surface	(87)				or Problematic Hydric S	
Histosol (	ipedon (A2)		Dark Surface ( Polyvalue Belo		ce (S8) (	I RR R	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> ) Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )		
Black His			MLRA 149B		CC (OO) (I	LIXIX IX,	5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)			,	) (I RR R	MI RA 1			
	Layers (A5)		Thin Dark Surface (S9) (LRR R, MLRA 1 High Chroma Sands (S11) (LRR K, L)				Thin Dark Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Mucky					nganese Masses (F12) ( <b>L</b>	•
	rk Surface (A12)	(, , , ,	Loamy Gleyed			, _,		nt Floodplain Soils (F19) (	-
	oodic (A17)		X Depleted Matr		,			ent Material (F21) <b>(outsi</b>	
_	A 144A, 145, 149B)		Redox Dark S		<del>-</del> 6)			allow Dark Surface (F22)	
	ucky Mineral (S1)		Depleted Dark	-	-			Explain in Remarks)	
	leyed Matrix (S4)		Redox Depres		` '			,	
Sandy Re	edox (S5)		Marl (F10) ( <b>LR</b>	R K, L)	•		<sup>3</sup> Indicato	ors of hydrophytic vegetat	ion and
	Matrix (S6)		Red Parent Material (F21) (MLRA 145)				wetland hydrology must be present, unless disturbed or problematic.		
Restrictive L	ayer (if observed):								
Type:									
Depth (in	iches):						Hydric Soil Prese	nt? Yes <u>X</u>	No
Remarks:									



Wetland P3-A2 - View facing south



Wetland P3-A2 - Soils

Segment 6-Package 4A

#### **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express** 

#### **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: Milton/S	Saratoga	Sampling Date: 4/11/23		
Applicant/Owner: TDI		· · · · ·	State: NY	Sampling Point: P3-A2 Upl		
Investigator(s): N. Frazer & J. Greaves		Section, To	——— wnship, Range:			
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve		Slope %: 3		
Subregion (LRR or MLRA): LRR R	Lat: 43.005299	•	-73.839485	Datum: DD		
Soil Map Unit Name: DeA - Deerfield loamy	<del></del>		NWI classification:	Datum. DD		
				lain in Domarka )		
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)		
Are Vegetation, Soil, or Hydro			nal Circumstances" prese			
Are Vegetation, Soil, or Hydro	<u> </u>		d, explain any answers in	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, ım	portant features, etc.		
Hydrophytic Vegetation Present?	Yes No _X	Is the Sampled A	rea			
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X		
Wetland Hydrology Present?	Yes No _X	If yes, optional We	etland Site ID: <u>Upland a</u>	djacent to Wetland P3-A2		
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
Deciduous forest.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is requir			Surface Soil Cracks			
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns (B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)			
Water Marks (B1)	— Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C8)			
Sediment Deposits (B2)	Oxidized Rhizospheres or					
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)				
Iron Deposits (B5)	Thin Muck Surface (C7)	\	Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7	·— ` `					
Sparsely Vegetated Concave Surface (E	<del></del>	ı	FAC-Neutral Test ([	J5)		
Field Observations:	No V Donth (inches)					
Surface Water Present? Yes Yes	No X Depth (inches):	—— I				
Saturation Present? Yes	No X Depth (inches):  No X Depth (inches):  No X Depth (inches):	——   Wetlan	d Hydrology Present?	Yes No _X		
(includes capillary fringe)	NO A Deput (mones).		u fiyurology Fresent.	Yes No _X_		
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections). if	available:			
	intorning won, wones p, ,	viodo i iepota,,	avanabio.			
Remarks:						

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

	Absolute	Dominant	Indicator				
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:			
Quercus alba	50	Yes	FACU	Number of Dominant Species			
. Carya ovata	10	No	FACU_	That Are OBL, FACW, or FAC:1 (A)			
. Acer rubrum	10	No	FAC	Total Number of Dominant			
l				Species Across All Strata: 4 (B)			
5.				Percent of Dominant Species			
). 				That Are OBL, FACW, or FAC: 25.0% (A/B)			
·.				Prevalence Index worksheet:			
	70	=Total Cover		Total % Cover of: Multiply by:			
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x1 = 0			
Acer rubrum	30	Yes	FAC	FACW species 0 x 2 = 0			
Rubus occidentalis	5	No	UPL	FAC species 40 x 3 = 120			
3.				FACU species 95 x 4 = 380			
				UPL species 60 x 5 = 300			
· 5				Column Totals: 195 (A) 800 (B)			
5.				Prevalence Index = B/A = 4.10			
				Hydrophytic Vegetation Indicators:			
·	35	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%			
. Reynoutria japonica	35	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Carex pensylvanica	40	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
	5	No	UPL	data in Remarks or on a separate sheet)			
			UPL	-			
1. Verbascum thapsus	5	No No		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
5. Rubus occidentalis	5	No	UPL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
S				be present, unless disturbed or problematic.			
·				Definitions of Vegetation Strata:			
3.				Tree – 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			
1				and greater than or equal to 3.28 ft (1 m) tall.			
2				Herb – All herbaceous (non-woody) plants, regardless			
	90	=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 in			
l				height.			
2				Hydrophytic			
3				Vegetation			
l				Present? Yes No X			
		=Total Cover					

SOIL Sampling Point P3-A2 Upl

Profile Desc Depth	ription: (Describe to Matrix	o the de		u <b>ment tl</b> x Featur		itor or co	onfirm the absence of indic	cators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S
0-7	10YR 3/2	100			<del></del>		Loamy/Clayey		
7 15	10VD 2/6	100							
7-15	10YR 3/6	100					Loamy/Clayey		
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RN	/I=Reduced Matrix, N	/IS=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=Por	e Lining, M=Mat	rix.
Hydric Soil I	ndicators:						Indicators for Pro	blematic Hydric	c Soils <sup>3</sup> :
Histosol			Dark Surface (					10) ( <b>LRR K, L, M</b>	•
	ipedon (A2)		Polyvalue Belo		ce (S8) (I	LRR R,		Redox (A16) (LR	•
— Black His			MLRA 149B	,	. /I DD D	MI DA 4		eat or Peat (S3)	
	n Sulfide (A4)		Thin Dark Surf		-			ow Surface (S8) (	•
	Layers (A5) Below Dark Surface	(Δ11)	High Chroma S Loamy Mucky	-				face (S9) ( <b>LRR K</b> se Masses (F12)	•
	rk Surface (A12)	(// 11)	Loamy Gleyed			Χ IX, L)		dplain Soils (F19	
	oodic (A17)		Depleted Matri		· <i>-</i> /				side MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		6)			Dark Surface (F2	
	ucky Mineral (S1)		Depleted Dark		-		Other (Explain		,
Sandy G	leyed Matrix (S4)		Redox Depress	sions (F	8)		<u> </u>		
Sandy R	edox (S5)		Marl (F10) ( <b>LR</b>	R K, L)			<sup>3</sup> Indicators of h	nydrophytic vege	tation and
Stripped	Matrix (S6)		Red Parent Material (F21) (MLRA 145)				wetland hydrology must be present,		
							unless distu	rbed or problema	atic.
	ayer (if observed):								
Type: _									
Depth (in	iches):						Hydric Soil Present?	Yes	. No <u>X</u>
Remarks:									



**Upland P3-A2 - View facing south** 



**Upland P3-A2 - Soils** 

Segment 6-Package 4A

### **SITE PHOTOGRAPHS**

**Champlain Hudson Power Express** 

#### **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	C	City/County: Milton/S	Saratoga	Sampling Date: 4/11/23		
Applicant/Owner: TDI			State: NY	Sampling Point: P3-A1 Wet		
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): Terrace	Local reli	lief (concave, conve	ex, none): Concave	Slope %: 2		
Subregion (LRR or MLRA): LRR R	Lat: 43.002257	Long:	-73.838751	Datum: DD		
Soil Map Unit Name: DeA - Deerfield loamy fi	ine sand, 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, e	explain in Remarks.)		
Are Vegetation, Soil, or Hydrolo	ogy significantly disturbe	ed? Are "Norn	- —— nal Circumstances" prese	nt? Yes x No		
Are Vegetation, Soil, or Hydrole	<del></del>		d, explain any answers in	Remarks.)		
SUMMARY OF FINDINGS – Attach	·			•		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	roa			
		within a Wetland		No		
			etland Site ID: Wetland			
Remarks: (Explain alternative procedures her Red maple hardwood swamp.	re or in a separate report.)					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	(B6)		
Surface Water (A1)	X Water-Stained Leaves (B9)	9)	X Drainage Patterns (I	B10)		
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B16)			
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water 1	Γable (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C1	1)	Crayfish Burrows (C	(8)		
X Sediment Deposits (B2)	Oxidized Rhizospheres on	Living Roots (C3)	Saturation Visible or	n 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 T	Γilled Soils (C6)	Geomorphic Position	n (D2)		
Iron Deposits (B5)	Thin Muck Surface (C7)		Shallow Aquitard (D	3)		
Inundation Visible on Aerial Imagery (B7)		;)	X Microtopographic Re			
Sparsely Vegetated Concave Surface (B8	3)		X FAC-Neutral Test (D	D5)		
Field Observations:						
Surface Water Present? Yes	No X Depth (inches):					
Water Table Present? Yes X	No X Depth (inches):  No Depth (inches):  Depth (inches):	6				
	No Depth (inches):	4 Wetlan	d Hydrology Present?	Yes <u>X</u> No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, previo	ous inspections), if	available:			
Remarks:						

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

<b>EGETATION</b> – Use scientific names of pla				Sampling Point: P3-A1 Wet		
Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1. Acer rubrum	40	Yes	FAC	Number of Dominant Species		
2. Ulmus americana	15	Yes	FACW	That Are OBL, FACW, or FAC: 9 (A)		
3. Fraxinus pennsylvanica	15	Yes	FACW	Total Number of Dominant		
4.				Species Across All Strata: 9 (B)		
5.				Percent of Dominant Species		
6.				That Are OBL, FACW, or FAC: 100.0% (A/B)		
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. Acer rubrum	15	Yes	FAC	FACW species 50 x 2 = 100		
2. Fraxinus pennsylvanica	15	Yes	FACW	FAC species 90 x 3 = 270		
3. Rhamnus cathartica	15	Yes	FAC	FACU species 10 x 4 = 40		
4. Lonicera morrowii	10	No	FACU	UPL species 0 x 5 = 0		
5.				Column Totals: 150 (A) 410 (B)		
6.	-			Prevalence Index = B/A = 2.73		
7.				Hydrophytic Vegetation Indicators:		
· · ·	55	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation		
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%		
Geum canadense	15	Yes	FAC	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Fraxinus pennsylvanica	5	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Acer rubrum	5	Yes	FAC	data in Remarks or on a separate sheet)		
4.		103		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
5.				<u> </u>		
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				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		
	25	=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 )	•				
( ( (	2/1001.)					

SOIL Sampling Point P3-A1 Wet

Profile Desc Depth	cription: (Describe to Matrix	o the de	•	<b>cument th</b> ox Featur		ator or co	onfirm the absence o	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-7	10YR 2/1	100					Loamy/Clayey		
7-16	10YR 3/1	25	10YR 4/6	15	c	m	Loamy/Clayey	Prominent redox concentrations	
			10YR 6/8	5	c	m		Prominent redox concentrations	
			10YR 2/1	5	c	m		Faint redox concentrations	
				· —					
				· —					
				. —					
				. —					
				· —					
				· —					
	oncentration, D=Deple	etion, RN	/I=Reduced Matrix,	MS=Masl	ked Sand	d Grains.		PL=Pore Lining, M=Matrix.	
Hydric Soil I Histosol			Dark Surface	(\$7)				or Problematic Hydric Soils <sup>3</sup> :	
	pipedon (A2)				ce (S8) (	I RR R	2 cm Muck (A10) ( <b>LRR K, L, MLRA 149B</b> ) Coast Prairie Redox (A16) ( <b>LRR K, L, R</b> )		
Black Hi			Polyvalue Below Surface (S8) (LRR R, MLRA 149B)				5 cm Mucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		Thin Dark Surface (S9) (LRR R, MLRA 1						
	l Layers (A5)		— High Chroma					rk Surface (S9) ( <b>LRR K, L</b> )	
	Below Dark Surface	(A11)	Loamy Mucky Mineral (F1) (LRR K, L)					nganese Masses (F12) ( <b>LRR K, L, R</b> )	
Thick Da	ark Surface (A12)		Loamy Gleyed Matrix (F2)				Piedmont Floodplain Soils (F19) (MLRA 149B)		
Mesic Sp	podic (A17)		Depleted Matr	rix (F3)			Red Parent Material (F21) (outside MLRA 145		
(MLR	A 144A, 145, 149B)		X Redox Dark Surface (F6)				Very Shallow Dark Surface (F22)		
Sandy M	lucky Mineral (S1)		Depleted Dark	⟨ Surface	(F7)		Other (E	xplain in Remarks)	
_	lleyed Matrix (S4)		Redox Depres	•	8)		2		
	ledox (S5)		Marl (F10) ( <b>LRR K, L</b> )				<sup>3</sup> Indicators of hydrophytic vegetation and		
Stripped	Matrix (S6)		Red Parent Material (F21) (MLRA 145)				wetland hydrology must be present,		
Postrictivo I	Layer (if observed):						uniess	s disturbed or problematic.	
Type:	Layer (II Observed).								
Depth (ir	nches):						Hydric Soil Prese	nt? Yes X No	
Remarks:	,						'	<del></del>	
rtemarks.									



Wetland P3-A1 - View facing south



Wetland P3-A1 - Soils

Segment 6-Package 4A

**SITE PHOTOGRAPHS** 

**Champlain Hudson Power Express** 

#### **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: Milton/S	Saratoga	Sampling Date: 4/11/23
Applicant/Owner: TDI			State: NY	Sampling Point: P3-A1 Upl
Investigator(s): N. Frazer & J. Greaves		Section, To	wnship, Range:	
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Convex	Slope %: 5
Subregion (LRR or MLRA): LRR R	Lat: 43.002759	•	-73.838728	· Datum: DD
Soil Map Unit Name: DeA - Deerfield loamy	<del></del>		NWI classification:	
Are climatic / hydrologic conditions on the site		Yes x	<del></del>	explain in Remarks.)
			` ` `	,
Are Vegetation, Soil, or Hydro			nal Circumstances" prese	
Are Vegetation, Soil, or Hydro	<u></u>		d, explain any answers in	
SUMMARY OF FINDINGS – Attach	site map showing sam	pling point loca	tions, transects, im	nportant features, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea	1
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X
Wetland Hydrology Present?	Yes No X	If yes, optional We	tland Site ID: <u>Upland a</u>	adjacent to Wetland P3-A1
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
Deciduous forest.				
HYDROLOGY				
Wetland Hydrology Indicators:				minimum of two required)
Primary Indicators (minimum of one is require			Surface Soil Cracks	
Surface Water (A1)	Water-Stained Leaves (B	39)	Drainage Patterns (	
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	
Water Marks (B1)	— Hydrogen Sulfide Odor (C	· ·	Crayfish Burrows (C	·
Sediment Deposits (B2)	Oxidized Rhizospheres of			on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	Geomorphic Position	
Iron Deposits (B5)	Thin Muck Surface (C7)	1 ×	Shallow Aquitard (D	•
Inundation Visible on Aerial Imagery (B7	·	(S)	Microtopographic R	` '
Sparsely Vegetated Concave Surface (E	38)		FAC-Neutral Test (I	D5)
Field Observations:	N Donald (inch as)			
Surface Water Present? Yes	No X Depth (inches):			
	No X Depth (inches):		- Under the my Property	Vaa Na V
Saturation Present? Yes	No X Depth (inches):	———   wetian	d Hydrology Present?	Yes No _X
(includes capillary fringe)  Describe Recorded Data (stream gauge, mo	enitoring well perial photos pre-	vious inspections) if	ovailable:	
Describe Necorded Data (Sacam gaage,	TillOring Well, acrial priotos, pro-	vious irispositorio <sub>j</sub> , ir	avaliable.	
Remarks:				

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

ree Stratum (Plot size:30')	Absolute	Dominant	Indicator	
	% Cover	Species?	Status	Dominance Test worksheet:
Pinus sylvestris	50	Yes	UPL	Number of Dominant Species
Prunus serotina	15	No	FACU	That Are OBL, FACW, or FAC:3 (A)
Acer rubrum	15	No	FAC	Total Number of Dominant
. <u> </u>				Species Across All Strata:6 (B)
				Percent of Dominant Species
				That Are OBL, FACW, or FAC: 50.0% (A/B)
				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
Lonicera morrowii	45	Yes	FACU	FACW species 0 x 2 = 0
Rhamnus cathartica	15	Yes	FAC	FAC species 65 x 3 = 195
Acer rubrum	5	No	FAC	FACU species 80 x 4 = 320
				UPL species 50 x 5 = 250
				Column Totals: 195 (A) 765 (B)
				Prevalence Index = B/A = 3.92
				Hydrophytic Vegetation Indicators:
	65	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
Lonicera morrowii	15	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Rhamnus cathartica	15	Yes	FAC	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
Acer rubrum	15	Yes	FAC	data in Remarks or on a separate sheet)
Rubus allegheniensis	5	No	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<u> </u>
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
D				
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				
	50	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
/oody Vine Stratum (Plot size: 30' )				
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				Tio.gra.
				Hydrophytic
				Vegetation
				I Present? Yes No X
		=Total Cover		Present? Yes No _X

SOIL Sampling Point P3-A1 Upl

Profile Desc Depth	ription: (Describe to Matrix	o the de		<b>cument t</b> l lox Featur		ator or co	onfirm the absence of i	ndicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-9	10YR 3/2	100			<del></del>		Loamy/Clayey		_
9-13	10YR 3/3	95	10YR 5/6				Loamy/Clayey	Distinct redox co	
9-13	101103/3		10110 3/0	5		_m 	Loamy/Clayey	DISHIFICE TEGOX CO	incerni alions
				- — - — - —					
¹Type: C=Co	oncentration, D=Deple	etion RM	=Reduced Matrix	MS=Mas	 ked Sand	 d Grains	2l ocation: PI =	=Pore Lining, M=Ma	trix
Hydric Soil I  Histosol Histic Ep Black His Hydroger Stratified Depleted Thick Da Mesic Sp (MLRA Sandy M Sandy G Sandy Re Stripped	ndicators: (A1) ipedon (A2)	(A11)	Dark Surface Polyvalue Be MLRA 149 Thin Dark Su High Chroma Loamy Muck Loamy Gleye Depleted Mar Redox Dark S Depleted Dar Redox Depre Marl (F10) (L	e (S7) elow Surfa B) urface (S9) a Sands (S y Mineral ed Matrix (F3) Surface (F rk Surface essions (F RK K, L)	ce (S8) ( ) (LRR R S11) (LRI (F1) (LRI F2) S6) s (F7) 8)	LRR R, , MLRA 1 R K, L) R K, L)	Indicators for  2 cm Mucl Coast Prai 5 cm Mucl Polyvalue Thin Dark Iron-Mang Piedmont Red Parer Very Shall Other (Exp	Problematic Hydri k (A10) (LRR K, L, I irie Redox (A16) (LF ky Peat or Peat (S3) Below Surface (S8) Surface (S9) (LRR anese Masses (F12 Floodplain Soils (F1 at Material (F21) (ou ow Dark Surface (F2 blain in Remarks) s of hydrophytic vege hydrology must be p disturbed or problem	c Soils <sup>3</sup> : MLRA 149B) RR K, L, R) (LRR K, L, R) (LRR K, L) () (LRR K, L, R) 9) (MLRA 149B) stside MLRA 145) 22) etation and present,
Depth (in		13	<u> </u>				Hydric Soil Present	? Yes	No X
Remarks:									



**Upland P3-A1 - View facing northwest** 



**Upland P3-A1 - Soils** 

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Saratog	ja	Sampling I	Date: Dece	mber 15, 2021
Applicant/Owner:	CHA			State:	NY		Sampling F	Point: DP-D	M
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range:	: Ballston Sp	pa		
Landform (hillslope,		Depression			f (concave, conv		Concave	Slop	e (%): 1
	•	LRR R		Lat: 42.998945°	·	ong: 73.839530			m: NAD83
Subregion (LRR or I			2: 0 = 250001		TN L				III. IVADOO
Soil Map Unit Name		n gravelly silt loam,					NWI classification:	Not Mapped	
Are climatic / hydrole	ū		•			(If no,	, explain in Remarks	•	
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	i? Ar	e "Normal Circum	nstances" present?	Yes	<b>X</b> No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If	needed, explain a	any answers in Rem	narks.)	
SUMMA	ARY OF FIND	INGS – Attach	site map s	showing sam	pling point	locations, tra	ansects, impor	tant feature	es, etc.
Hydrophytic Vege	etation Present?	Yes	<b>X</b> No		Is the Sample	d Area			
Hydric Soil Preser		Yes _	X No		within a Wetla		Yes X	No	_
Wetland Hydrolog		Yes	X No		If yes, optional	Wetland Site ID:	DM		
HYDROLOGY									
Wetland Hydrolo	an Indicators						Secondary Indicators	/minimum of ty	wo required)
		e is required; check	all that annly)				Secondary Indicators Surface Soil Cracks		wo required)
Surface Water	•	IS required, official		-Stained Leaves (E	R0)		Drainage Patterns		
X High Water T				ic Fauna (B13)	D9)	X	Moss Trim Lines (B		
X Saturation (A				Deposits (B15)		_	Dry-Season Water	-	
Water Marks	-		· <u></u> -	gen Sulfide Odor (	(C1)	_	Crayfish Burrows (		
Sediment De				ed Rhizospheres o		(C3)	Saturation Visible of	•	ry (C9)
Drift Deposits	s (B3)		Preser	nce of Reduced Iro	on (C4)		Stunted or Stressed	d Plants (D1)	
Algal Mat or	Crust (B4)		Recent	t Iron Reduction in	n Tilled Soils (C6	S) <u>X</u>	Geomorphic Position	on (D2)	
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aquitard (I	D3)	
	isible on Aerial Im		Other (	(Explain in Remarl	rks)		Microtopographic R		
Sparsely Veg	getated Concave S	Surface (B8)					FAC-Neutral Test (	,D5)	
Field Observation			¥ 5 #						
Surface Water Pre		Yes No						v	
Water Table Prese		Yes X No				Wetland Hydro	ology Present?	Yes X	No
Saturation Presen (includes capillary		Yes X No	Depui	ı (inches): 1					
		auge, monitoring w	ell, aerial phote	os, previous inspe	ections), if availal	ble:			
	•			•	•				
Remarks:									

(Dist. : 20 %)					
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Ulmus americana	15	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	5 (A)
Decides delicides			FAC	11101110 052, 171011, 011710.	(//)
			FAC	Total Number of Dominant	5 (D)
				Species Across All Strata:	5(B)
·				Percent of Dominant Species That Are OBL, FACW, or FAC:	400 (4/5
				That Are OBL, FACW, or FAC:	(A/E
				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
	25	= Total Cover		OBL species 0	x 1 = 0
oling/Shrub Stratum (Plot size: 15 ft.)				FACW species 50	x 2 = 100
Populus deltoides		Yes	FAC	FAC species 15	x 3 = 45
		163	170	FACU species 0	x 4 = 0
				UPL species 0	x 5 = 0
·				Column Totals: 65	(A) <u>145</u> (B
				Prevalence Index = B/A =	2.23
				Hydrophytic Vegetation Indica	tors:
				1 - Rapid Test for Hydrophy	tic Vegetation
				X 2 - Dominance Test is >509	
	5	= Total Cover		X 3 - Prevalence Index is ≤3.0	
rb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation data in Remarks or on a	
Onoclea sensibilis	20	Yes	FACW	data in Nomano or on e	a separate sneet)
Symphyotrichum novae-angliae	15	Yes	FACW	Problematic Hydrophytic Ve	egetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and we	tland hydrology must
				be present, unless disturbed or p	problematic.
				Definitions of Variation Strat	
				Definitions of Vegetation Strat	
				Tree – Woody plants 3 in. (7.6 c	•
				at breast height (DBH), regardles	ss of neight.
				Sapling/shrub – Woody plants I	
				and greater than or equal to 3.28	3 ft (1 m) tall.
0.				Herb – All herbaceous (non-woo	
				size, and woody plants less than	3.28 ft tall.
1				Woody vines – All woody vines	greater than 3.28 ft in
2.				height.	
	35	= Total Cover			
ody Vine Stratum (Plot size: 30 ft.)					
	<del></del>			Hydrophytic	
				Vegetation	X No.
				Present? Yes	X No

SOIL Sampling Point: DP-DM Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc<sup>2</sup> (inches) Texture Remarks 0-16 10YR 2/1 85 7.5YR 4/6 Clay 10YR 4/2 70 7.5YR 4/6 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland DM- View facing South



**Wetland DM- Soils** 

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Sarato	oga	Sampling Date:	December 15, 2021
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-DM-Upland
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Ballston Spa	•	
Landform (hillslope,		Terrace			f (concave, con			Slope (%):1
	·				•	· '		<u> </u>
Subregion (LRR or I		LRR R		Lat: 42.998766	°N	Long: 73.839536°W		Datum: NAD83
Soil Map Unit Name	: DmB - Mardir	n gravelly silt loam	, 3 to 8 percent	t slopes		NWI cla	ssification: Not N	Mapped
Are climatic / hydrol	ogic conditions on	the site typical for	this time of ye	ar? Yes	<b>X</b> N	o (If no, explain	in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	? A	Are "Normal Circumstances	s" present?	Yes X No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	f needed, explain any ans	wers in Remarks.)	
SUMMA	ARY OF FINDI	NGS – Attach	າ site map ເ	showing sam	pling point	locations, transect	ts, important t	features, etc.
Lludraphytic Vogo	t-tion Brocont?	Vos	No	Y	la the Cample	! A		
Hydrophytic Vege Hydric Soil Preser		-		X	Is the Sample within a Wetl		No	X
Wetland Hydrolog		-	No No		If yes ontions	al Wetland Site ID:		
Remarks: (Explain a	•				li yes, opuone	di Weliana Sile ib.		
HYDROLOGY	- In directory					Seconda	la di satara (minir	- f to required)
Wetland Hydrolo						·		num of two required)
	s (minimum of one	is required; check					e Soil Cracks (B6)	
Surface Wate				Stained Leaves (E	B9)		ge Patterns (B10)	
High Water T				c Fauna (B13)			rim Lines (B16)	
Saturation (A	-			eposits (B15)	(04)		ason Water Table	(C2)
Water Marks Sediment De				gen Sulfide Odor ( ed Rhizospheres (	· · · · · ·		h Burrows (C8)	al Imagani (CO)
Drift Deposits	. , ,			ea Knizospheres once of Reduced Iro	_		tion Visible on Aeria d or Stressed Plant	
Algal Mat or			_	t Iron Reduction in	` '		orphic Position (D2)	
Iron Deposits	, ,		_	luck Surface (C7)	1 111100 000 , =		v Aquitard (D3)	,
l —	isible on Aerial Im	agery (B7)		(Explain in Remar	·ks)		pographic Relief (I	D4)
	getated Concave S		_		•	_	eutral Test (D5)	,
Field Observation	ns:							
Surface Water Pre	esent?	Yes No	X Depth	(inches):				
Water Table Prese	ent?	Yes No	X Depth	(inches):		Wetland Hydrology P	resent? Yes	No <u>X</u>
Saturation Presen		Yes No	X Depth	(inches):				
(includes capillary			"!-! mb ot	· · · · · · · · · · · · · · · · · · ·	" -\ 'f eveil			
Describe Recorde	d Data (stream ya	luge, monitoring w	⁄eli, aeriai priot	os, previous irispe	ections), ii avaii	able:		
Remarks:								
No wetland hydr	ology present a	t data point						

ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Pinus strobus	15	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC	: 0 (A)
Picea abies	25		UPL	That Are OBE, I AGW, of I AG	. <u> </u>
_			FACU	Total Number of Dominant Species Across All Strata:	3 (B)
_					(D)
Quercus rubra			FACU	Percent of Dominant Species That Are OBL, FACW, or FAC	: 0 (A/E
				Prevalence Index worksheet	:
				Total % Cover of:	Multiply by:
	55	= Total Cover		-	x 1 = 0
oling/Shrub Stratum (Plot size: 15 ft.)				· ·	x 2 = 0
Quercus rubra	5	Yes	FACU	FAC species 0	x 3 = 0
				FACU species 35 UPL species 25	x 4 = 140 x 5 = 125
				Column Totals: 60	
				Column Totals. 00	(A) <u>200</u> (B
				Prevalence Index = B/A	= 4.41
				Hydrophytic Vegetation Indi	cators:
				1 - Rapid Test for Hydrop	
				2 - Dominance Test is >5	
	5	= Total Cover		3 - Prevalence Index is ≤	
b Stratum (Plot size: 5 ft.)				4 - Morphological Adapta data in Remarks or or	tions <sup>1</sup> (Provide supporting n a separate sheet)
		-		Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and w	etland hydrology must
				be present, unless disturbed o	r problematic.
				Definitions of Vegetation Str	ata:
				Tree – Woody plants 3 in. (7.6	cm) or more in diameter
				at breast height (DBH), regard	·
				Sapling/shrub – Woody plant	s less than 3 in DBH
		-		and greater than or equal to 3.	
				Herb – All herbaceous (non-w	oody) plants, regardless of
)				size, and woody plants less that	
1				Woody vines – All woody vine	es greater than 3.28 ft in
2				height.	
	0	= Total Cover			
ody Vine Stratum (Plot size: 30 ft.)					
				Hydrophytic	
				Vegetation Present? Yes	NoX
				Fresent Tes	NO
	0	= Total Cove	r		

SOIL
Upland
Sampling Point: DP-DM-

Profile Descri	ption: (Describe to the	depth need	ed to document the i	ndicator or	confirm th	e absence	of indicators.)	
		шории иоош						
Depth	Matrix	0/		Features	Type <sup>1</sup>	Loc <sup>2</sup>	T	Demode
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	туре	LOC	Texture	Remarks
0-4	10YR 3/3	100					Silt Loam	Rock refusal
0-4	10110 3/3	100					Siit Loaiii	NOCK Telusal
-								
								·
								-
<sup>1</sup> Type: C=Con	centration, D=Depletion,	RM=Reduce	ed Matrix, MS=Masked	d Sand Grain	ns.		<sup>2</sup> Location:	: PL=Pore Lining, M=Matrix.
Usalvia Cail In	diantara.						Indicators f	for Problematic Hydric Soils <sup>3</sup> :
Hydric Soil Inc			Polyvalue Below	Surface (SR	(I DD D			
Histosol (	•			Surface (So	) (LKK K,			Muck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Epi	pedon (A2)		MLRA 149B)				Coast	Prairie Redox (A16) (LRR K, L, R)
Black His	tic (A3)	-	Thin Dark Surface	e (S9) ( <b>LRR</b>	R, MLRA	149B)	5 cm M	flucky Peat or Peat (S3) (LRR K, L, R)
Hvdrogen	Sulfide (A4)	-	Loamy Mucky Mi	neral (F1) (L	RR K. L)		Dark S	Surface (S7) (LRR K, L, M)
	Layers (A5)				, =,			
			Loamy Gleyed M					llue Below Surface (S8) (LRR K, L)
Depleted	Below Dark Surface (A1	1)	Depleted Matrix (	F3)			Thin D	ark Surface (S9) (LRR K, L)
Thick Dar	k Surface (A12)	_	Redox Dark Surfa	ace (F6)			Iron-Ma	anganese Masses (F12) (LRR K, L, R)
Sandy Mu	ucky Mineral (S1)		Depleted Dark Su	ırface (F7)			Piedmo	ont Floodplain Soils (F19) (MLRA 149B)
		-	•					
	eyed Matrix (S4)		Redox Depressio	ns (F8)				Spodic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy Re	dox (S5)						Red Pa	arent Material (F21)
Stripped I	Matrix (S6)						Very S	hallow Dark Surface (TF12)
Dark Surf	ace (S7) (LRR R, MLRA	149B)					Other (	(Explain in Remarks)
Bank Ban	aco (Cr) (Errit II, IIIEIT)	1402)						(Explain in Nomano)
<sup>3</sup> Indicators of h	nydrophytic vegetation ar	nd wetland h	ydrology must be pres	ent, unless	disturbed o	r problemation	C.	
	yer (if observed):		, 0, 1			'		
Type: None	Э							
Depth (inch	nes):						Hydric Soil F	Present? Yes No X
	,							
Remarks:								
Could not dig pas	st 4 inche due to rock refusal,	no hydric soil	s present at data point					



**Upland DM- View facing South** 



**Upland DM- Soils** 

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Saratoga		Sampling D	Date: December	er 15, 2021
Applicant/Owner:	СНА			State:	NY		Sampling Po	oint: DP-DN	
Investigator(s):	Tristen Peterson	<u> </u>		Section, To	ownship, Range:	Ballston Spa	<del></del> а		
Landform (hillslope,		Depression			f (concave, convex,		oncave	Slope (9	%): 1
	•	LRR R		Lat: 42.997951		ig: 73.839909°		Slope (	
Subregion (LRR or I	-		2: 0 - 2500		¹N ∟ong				VADOO
Soil Map Unit Name		n gravelly silt loam,			V 11			Not Mapped	
Are climatic / hydrol	· ·	• • • • • • • • • • • • • • • • • • • •	•				explain in Remarks.)		
		, or Hydrology				Normal Circums	stances" present?	Yes X	No
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (If ne	eded, explain ar	ny answers in Rema	arks.)	
SUMMA	ARY OF FIND	NGS – Attach	site map	showing sam	pling point lo	cations, tra	nsects, import	ant features,	etc.
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sampled A	Area			
Hydric Soil Prese		Yes	X No		within a Wetland		Yes X	No	
Wetland Hydrolog		Yes	X No		If yes, optional W	etland Site ID:	DM		
HYDROLOGY									
	Indicatora						dami Indicatora	/inimum of two	i d\
Wetland Hydrolo		المعطورات التالية	U U -t apply				econdary Indicators		requirea)
		is required; check			DO)		Surface Soil Cracks		
X High Water 1				-Stained Leaves (E ic Fauna (B13)	В9)		Drainage Patterns (E Moss Trim Lines (B1		
X Saturation (A				Deposits (B15)		_	Dry-Season Water T	•	
Water Marks	•			gen Sulfide Odor (	(C1)		Crayfish Burrows (C		
Sediment De					on Living Roots (C3		Saturation Visible or	•	(C9)
Drift Deposits			_	nce of Reduced Iro	= '	_	Stunted or Stressed		.00,
Algal Mat or				nt Iron Reduction in	,		Geomorphic Position		
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)			Shallow Aquitard (D	13)	
	isible on Aerial Im		Other	(Explain in Remar	rks)	<u>X</u> 1	Microtopographic Re	elief (D4)	
Sparsely Veg	getated Concave	Surface (B8)					FAC-Neutral Test (D	)5)	
Field Observatio									
Surface Water Pre		Yes No							
Water Table Pres	ent?	Yes X No			'	Wetland Hydro	logy Present?	Yes X	No
Saturation Presen		Yes X No	Depth	ı (inches): 1					
(includes capillary  Describe Recorde		auge monitoring w	ell aerial phot	nrevious inspe	ections), if available	<u></u>			
	a Data (c ca g.	rugo, mormonig	on, aona. p	00, providuoe	outono), ii a cana	•			
Remarks:									

	Absolute	Dominant	Indicator	Domines Total			
ee Stratum (Plot size: 30 ft. )	% Cover	Species?	Status	Dominance Test works  Number of Dominant Spe			
. Quercus bicolor	40	Yes	FACW	That Are OBL, FACW, or		2	(A)
. Quercus ellipsoidalis	5	No	UPL	Total Number of Domina	nt		
Acer platanoides	5	No	UPL	Species Across All Strata		2	(B)
				Percent of Dominant Spe	ocies		
				That Are OBL, FACW, or		100	(A/I
				Prevalence Index works		Multiply by:	
·		= Total Cover		Total % Cover of:  OBL species 0	x 1 =	Multiply by:	
alia a (Obarda Otarta na (Dista sina 45 ft.)		= Total Cover			x 2 =		
oling/Shrub Stratum (Plot size: 15 ft.)				i .		= 0	
						= 0	
						= 50	
				· · · · · · · · · · · · · · · · · · ·	(A)	150	(B
					` '		
				Prevalence Index	= B/A = 2.5		
				Hydrophytic Vegetation	Indicators:		
				X 1 - Rapid Test for H	ydrophytic Veg	etation	
				X 2 - Dominance Test			
th Charles (Dist size 5.4)	0	= Total Cover		X 3 - Prevalence Inde 4 - Morphological A		rovido ovenomi	
b Stratum (Plot size: 5 ft.)				data in Remarks			ng
Onoclea sensibilis		Yes	FACW				
				Problematic Hydrop	hytic Vegetatio	on¹ (Explain)	
				<sup>1</sup> Indicators of hydric soil	-		
				be present, unless distur	bed or problem	atic.	
				Definitions of Vegetation	n Strata:		
				Tree – Woody plants 3 in	n. (7.6 cm) or m	ore in diamete	er
				at breast height (DBH), r	egardless of he	eight.	
				Sapling/shrub – Woody	plants less tha	n 3 in. DBH	
				and greater than or equa	-		
				Herb – All herbaceous (r	on-woody) pla	nts, regardless	of
0				size, and woody plants le		-	
1				Woody vines – All wood	y vines greater	than 3.28 ft in	
2				height.			
	10	= Total Cover					
oody Vine Stratum (Plot size: 30 ft.)							
				Hydrophytic			
				Vegetation Present? Y	es X	No	
				i-resentr Y		140	
	0	= Total Cove	r	<u> </u>			

SOIL Sampling Point: DP-DN Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 2/1 100 Clay 10YR 3/2 10YR 5/6 90 7.5YR 5/6 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland DN- View facing North



**Wetland DN- Soils** 

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Sarato	oga	Sampling Date:	December 15, 2021
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-DM-Upland
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Ballston Spa		
		Terrace			f (concave, con			Slope (%): 1
Landform (hillslope,	·				•	· <u></u>		
Subregion (LRR or I	MLR <u>A):</u>	LRR R		Lat: 42.997871	°N	Long: 73.839915°W		Datum: NAD83
Soil Map Unit Name	:: MnB - Mardin	gravelly silt loam,	, 3 to 8 percent	slopes		NWI cla	ssification: Not N	Mapped
Are climatic / hydrol	ogic conditions on	the site typical for	r this time of year	ar? Yes	X N	o (If no, explain	in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	signi	ficantly disturbed	? A	re "Normal Circumstances	" present?	Yes X No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	f needed, explain any ansv	wers in Remarks.)	
SUMMA	ARY OF FINDI	NGS – Attach	ı site map s	showing sam	pling point	locations, transect	:s, important f	features, etc.
Lludraphytic Vogo	t-tion Dropont?	Vos	No	Y	la the Cample	! A		
Hydrophytic Vege Hydric Soil Preser		-		X	Is the Sample within a Wetl		No	X
Wetland Hydrolog		-	No No		If yes ontions	al Wetland Site ID:		
Remarks: (Explain a		-			li yes, opiiono	II Welland Site ID.		
HYDROLOGY	Indicators					Soconda		of two required)
Wetland Hydrolo								num of two required)
		is required; check					Soil Cracks (B6)	
Surface Water				Stained Leaves (E	B9)		ge Patterns (B10)	
High Water T				c Fauna (B13)			rim Lines (B16)	(00)
Saturation (A	•			eposits (B15)	(04)		ason Water Table	(C2)
Water Marks Sediment De				gen Sulfide Odor ( ed Rhizospheres (	- · · · · · · · · · · · · · · · · · · ·		h Burrows (C8) ion Visible on Aeria	al Imageny (CQ)
Drift Deposits				ice of Reduced Iro	_		or Stressed Plant	5 , , ,
Algal Mat or	-			t Iron Reduction in			rphic Position (D2)	
Iron Deposits	* *			uck Surface (C7)			Aquitard (D3)	'
l —	isible on Aerial Im	agery (B7)	_	Explain in Remark	·ks)		pographic Relief (I	D4)
Sparsely Veg	getated Concave S	Surface (B8)	<del></del>				eutral Test (D5)	
Field Observation	ns:							
Surface Water Pre	esent?	Yes No	X Depth	(inches):				
Water Table Prese		Yes No				Wetland Hydrology P	resent? Yes	No <u>X</u>
Saturation Presen		Yes No	X Depth	(inches):				
(includes capillary			U	· · · · · · · · · · · · · · · · · · ·	" -\ 'f availe			
Describe Recorde	d Data (stream ya	auge, monitoring w	eli, aeriai prioto	s, previous irispe	ections), ii avaiid	able:		
Remarks:								
No wetland hydr	rology present a	t data point						

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant I Species?	ndicator Status	Dominance Tes	t worksheet:		
Quercus rubra	40	Yes	FACU	Number of Domi That Are OBL, F.		0 (4	
				That Are OBL, F.	ACVV, OI FAC.	0(A	۸)
2. Quercus ellipsoidalis		Yes	UPL	Total Number of		0 (5	
3. Pinus strobus	15	Yes	FACU	Species Across	Ali Strata:	3(B	3)
4				Percent of Domin		0 (4	\ (D)
5				That Are OBL, F.	ACVV, or FAC:	0(A	A/B)
6				Prevalence Inde	av workshoot:		
7				Total % Co		Multiply by:	
		= Total Cover		OBL species	0	x 1 = 0	
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species	0	x 2 = 0	
1				FAC species	0	x 3 = 0	
				FACU species	55	x 4 = <u>220</u>	
2				UPL species	15	x 5 = <u>75</u>	
3				Column Totals:	70	(A) <u>295</u>	(B)
4							
5				Prevalenc	e Index = B/A = 4	1.21	
6				Hydrophytic Ve	getation Indicat	ors:	
7					est for Hydrophyt		
		T 0			nce Test is >50%		
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover			nce Index is ≤3.0 logical Adaptation	ns <sup>1</sup> (Provide supporting	
·				data in I	Remarks or on a	separate sheet)	
1						1	
2						getation <sup>1</sup> (Explain)	
3				-		and hydrology must	
4				be present, unles	ss disturbed or pr	roblematic.	
5.				Definitions of V	egetation Strata	:	
6.				Tree – Woody pl	lants 3 in. (7.6 cm	n) or more in diameter	
7				at breast height (	(DBH), regardles	s of height.	
0				Sapling/shrub -	- Woody plants le	ess than 3 in. DBH	
0				and greater than			
9				<b>Herb</b> – All herba	ceous (non-wood	dy) plants, regardless of	
10				size, and woody			
11				Woody vines –	All woody vines a	reater than 3.28 ft in	
12				height.	· ·· · · · · · · · · · · · · · · · · ·		
	0	= Total Cover					
Woody Vine Stratum (Plot size: 30 ft.)							
1.							
				Hydrophytic			
2				Vegetation	.,	No X	
3				Present?	Yes _	No <u>X</u>	
4							
	0	= Total Cover					
Remarks: (Include photo numbers here or on a separate	sheet.)						
No hydrophytic vegetation found at data point							

Sampling Point: DP-DM-Upland

SOIL Sampling Point: DP-DM-

Depth	Matrix		Redo	ox Features							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks		
0-5	10YR 2/1	100					Loam				
	·										
	· <del></del>										
	· <del></del>										
				- ——							
						-					
Type: C=Cor	ncentration, D=Depletion	, RM=Redu	ced Matrix, MS=Maske	ed Sand Grair	ıs.		<sup>2</sup> Location:	PL=Pore Lining, M=	:Matrix.		
Hydric Soil In	ndicators:						Indicators f	or Problematic Hyd	Iric Soils <sup>3</sup> :		
Histosol			Polyvalue Below	V Surface (S8)	(LRR R,			uck (A10) ( <b>LRR K, I</b>			
Histic Ep	ipedon (A2)		MLRA 149B)				Coast F	Prairie Redox (A16)	(LRR K, L, R)		
Black His	stic (A3)		Thin Dark Surfa	ce (S9) ( <b>LRR</b>	R, MLRA 1	149B)	5 cm M	ucky Peat or Peat (S	S3) (LRR K, L, R)		
	n Sulfide (A4)		Loamy Mucky M	lineral (F1) ( <b>L</b>	RR K, L)		Dark Surface (S7) (LRR K, L, M)				
	Layers (A5)		Loamy Gleyed N	Matrix (F2)			Polyval	ue Below Surface (S	88) (LRR K, L)		
Depleted	Below Dark Surface (A	11)	Depleted Matrix	(F3)			Thin Da	ark Surface (S9) (LR	RK, L)		
Thick Da	rk Surface (A12)		Redox Dark Sur					anganese Masses (F			
	lucky Mineral (S1)		Depleted Dark S					ont Floodplain Soils (			
	leyed Matrix (S4)		Redox Depressi	ons (F8)				Spodic (TA6) ( <b>MLRA</b>	144A, 145, 149B)		
Sandy R	edox (S5)			Red Parent Material (F21)							
Stripped Matrix (S6)							Very Shallow Dark Surface (TF12)				
							Other (	Explain in Remarks)			
	face (S7) (LRR R, MLR	A 149B)									
Dark Sur	face (S7) (LRR R, MLRA										
Dark Sur	face (S7) (LRR R, MLR,		hydrology must be pre	esent, unless	disturbed o	r problemat	ic.				
Dark Sur  Indicators of  Restrictive La	face (S7) (LRR R, MLR) hydrophytic vegetation a ayer (if observed):		hydrology must be pre	esent, unless	disturbed o	r problemat	ic.				
Dark Sur	face (S7) (LRR R, MLR) hydrophytic vegetation a ayer (if observed):		hydrology must be pre	esent, unless	disturbed o	r problemat	ic.				
Dark Sur Indicators of Restrictive La	face (S7) (LRR R, MLR/ hydrophytic vegetation a ayer (if observed):		hydrology must be pre	esent, unless	disturbed o	r problemat		resent? Yes	No <u>X</u>		
Dark Sur  Bindicators of  Restrictive La  Type: Nor  Depth (inc	face (S7) (LRR R, MLR/ hydrophytic vegetation a ayer (if observed):		hydrology must be pre	esent, unless	disturbed o	r problemat		resent? Yes	No <u>X</u>		
Dark Sur  Indicators of Restrictive La Type: Nor Depth (inc	face (S7) (LRR R, MLR/ hydrophytic vegetation a ayer (if observed):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur  Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Restrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
Dark Sur Indicators of Sestrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No <u>X</u>		
ndicators of estrictive La Type: Nor Depth (inc	hydrophytic vegetation a ayer (if observed):  ne ches):	and wetland						resent? Yes	No X		

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

Project/Site: CHPE- Chesterwood Court- MP 159.1	City/County: Ballston/ Saratoga Sampling Date: 4/14/2023						
Applicant/Owner: CHPE	State: NY Sampling Point: G-CW-Wei						
Investigator(s): K. Weiskotten. K. Schumacher	Section, Township, Range: Ballston						
Landform (hillside, terrace, etc.): Till plains, ridges, benches	Local relief (concave, convex, none): convex Slope (%):						
Subregion (LRR or MLRA): LRR R, MLRA 144A Lat: 42° 59' 54"	Long: 73° 50' 25" Datum:						
Soil Map Unit Name: Manlius Nassau complex	NWI classification: PFO						
Are climatic / hydrologic conditions on the site typical for this time of	· · · · · · · · · · · · · · · · · · ·						
Are Vegetation, Soil, or Hydrologysignifica							
Are Vegetation, Soil, or Hydrologynaturally	problematic? (If needed, explain any answers in Remarks.)						
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.						
Lhadrahatia Vanatatian Busanto	La tha Caurulad Ausa						
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No						
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:						
Remarks: (Explain alternative procedures here or in a separate rep							
	pools identified as CW-A, CW-B, and CW- C. This wetland sheet is for all three						
identified pools.							
LIVERELLEGY							
HYDROLOGY							
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)						
Primary Indicators (minimum of one is required; check all that apply	<del></del>						
X Surface Water (A1) X Water-Staine							
High Water Table (A2)  Aquatic Faur							
Saturation (A3)Marl Deposit	<u> </u>						
<del></del>	ulfide Odor (C1) Crayfish Burrows (C8)						
<del></del>	izospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)						
l <del></del>	of Reduced Iron (C4)  Stunted or Stressed Plants (D1)						
<del></del>	Reduction in Tilled Soils (C6) Geomorphic Position (D2)						
Iron Deposits (B5)  Thin Muck Si  Otto (B7)							
<u> </u>	in in Remarks)  Microtopographic Relief (D4)						
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)						
Field Observations: Surface Water Present? Yes X No Depth (inch	200): 4"						
Surface Water Present? Yes X No Depth (inch Water Table Present? Yes No X Depth (inch	(es). 4 — (						
Saturation Present? Yes X No Depth (inch	nes):   Wetland Hydrology Present? Yes X No						
(includes capillary fringe)	Wettalid Hydrology Flesent: 1es_XNO						
Describe Recorded Data (stream gauge, monitoring well, aerial pho	otos, previous inspections), if available:						
Remarks:							

<b>VEGETATION</b> –	Use	scientific	names	of	plants.
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<b>EGETATION</b> – Use scientific names of pla				Sampling F	Point: G-CW-	-wet	
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:			
1. Acer rubrum	20	Yes	FAC	Number of Dominant Species			
2. Ulmus americana	5	No	FACW	That Are OBL, FACW, or FAC:	4	(A)	
3. Populus deltoides	5	No	FAC	Total Number of Dominant			
4.				Species Across All Strata:	5	(B)	
5.				Percent of Dominant Species			
3.				That Are OBL, FACW, or FAC:	80.0%	(A/B)	
7.				Prevalence Index worksheet:		_	
	30	=Total Cover		Total % Cover of:	Multiply by:	<u>:</u>	
Sapling/Shrub Stratum (Plot size:15')				OBL species	x 1 =		
Lonicera tatarica	15	Yes	FACU	FACW species	x 2 =		
2.		· ———			x 3 =		
3.					x 4 =		
1.					x 5 =		
5.					(A)	—— (B)	
3.				Prevalence Index = B/A	· · · —		
7.	-			Hydrophytic Vegetation Indic			
	15	=Total Cover		1 - Rapid Test for Hydroph			
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50			
1. Onoclea sensibilis	15	Yes	FACW	3 - Prevalence Index is ≤3.			
2. Lysimachia ciliata	10	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supportin			
3. Carex stricta	5	No	OBL	data in Remarks or on a	•		
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain			
				Problematic Hydrophytic v	egetation (Exp	laiii)	
5 6		·		<sup>1</sup> Indicators of hydric soil and we be present, unless disturbed or		/ must	
7				Definitions of Vegetation Stra	ıta:		
8.		·		Tree – Woody plants 3 in. (7.6		diamete	
9				at breast height (DBH), regardle	ass of neight.		
10 11				Sapling/shrub – Woody plants and greater than or equal to 3.2		DBH	
12				Herb – All herbaceous (non-wo	ody) plants rec	nardles	
	30	=Total Cover		of size, and woody plants less t	• • • •	_	
Woody Vine Stratum (Plot size: 15' )				Woody vines – All woody vines	a arootor than 3	20 ft i	
1. Toxicodendron radicans	5	Yes	FAC	height.	s greater triair o	•.∠0 It ii	
2.				-			
3.				Hydrophytic			
				Vegetation Present? Yes X	No		
4				116001161 100 /	140		
4.	5	=Total Cover		_		-	

SOIL Sampling Point: G-CW-Wet

Profile D	escription: (Describe	to the de	epth needed to docu	ment the	e indicato	r or con	firm the absence o	of indicators.)		
Depth	Matrix		Redox	Feature	es					
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-6	10YR 2/1	100					Loamy/Clayey			
6-14	10YR 3/4	<u>95</u> 	7.5YR 3/4		C	M	Mucky Sand	Faint redox concentrations		
					_ _ _					
<sup>1</sup> Type: C	=Concentration, D=Dep	letion, RI	M=Reduced Matrix, CS	S=Cover	ed or Coa	ted Sand	l Grains. <sup>2</sup> Loc	ation: PL=Pore Lining, M=Matrix.		
History History History Black Hydra Strat Deple Thick X Sanc Sanc Sanc Stript Dark	bil Indicators: sol (A1) Expipedon (A2) Histic (A3) Degen Sulfide (A4) fied Layers (A5) Exted Below Dark Surface Dark Surface (A12) Mucky Mineral (S1) Gleyed Matrix (S4) My Redox (S5) Ded Matrix (S6) Surface (S7) Sof hydrophytic vegeta	Polyvalue Below  MLRA 149B)  Thin Dark Surfact  High Chroma Sat  Loamy Mucky Mit  Loamy Gleyed Mit Note of the Service of the	ee (S9) (Inds (S1) ineral (F2) latrix (F2) (F3) ace (F6) urface (F6) ons (F8) <b>K</b> , <b>L</b> )	LRR R, M 1) (LRR M 1) (LRR M 2)	LRA 149 (, L) (, L)	Polyvalue Below Surface (S8) (LRR K, L) Thin Dark Surface (S9) (LRR K, L) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Red Parent Material (F21) Very Shallow Dark Surface (TF12) Other (Explain in Remarks)				
Restrictiv	ve Layer (if observed)									
Remarks: This data								CS Field Indicators of Hydric Soils		



Wetland G-CW-Wet



Wetland G-CW-Wet- Soils

**SITE PHOTOGRAPHS** 

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

Project/Site: CHPE-Crestwo	ood Court- MP 159.1	C	City/County: Ballston/ S	aratoga	Sampling Date: 4/14/202	3		
Applicant/Owner: CHPE				State:	NY Sampling Point: G-0	CW-Up		
Investigator(s): K. Weiskotte	en K Schumacher		Section, Township, Ran					
Landform (hillside, terrace, et			cal relief (concave, conv		Slope (%):			
Subregion (LRR or MLRA): L	, <u> </u>	_	,	g: 73° 50' 25"				
_		at. 42 59 54	LOII					
Soil Map Unit Name: Manlius	•				ification: None			
Are climatic / hydrologic cond	•	•		lo (If no, explai				
Are Vegetation, Soil				mal Circumstances" p	resent? Yes X No			
Are Vegetation, Soil	, or Hydrology	naturally pro	blematic? (If neede	ed, explain any answe	rs in Remarks.)			
SUMMARY OF FINDIN	IGS – Attach site n	nap showing s	ampling point loc	ations, transects	s, important features, e	tc.		
Hydrophytic Vegetation Pres	sent? Yes	No X	Is the Sampled Are	22				
Hydric Soil Present?	Yes		within a Wetland?		No _ X			
Wetland Hydrology Present		No X	If yes, optional Wet					
Remarks: (Explain alternati	ve procedures here or ir	n a separate report.)	)					
	plex that is made up of the	hree connected poo	ols identified as CW-A,	CW-B, and CW- C. TI	nis upland sheet is for all three			
identified pools.								
HYDROLOGY								
Wetland Hydrology Indicat				Secondary Ind	icators (minimum of two requir	red)		
Primary Indicators (minimun		eck all that apply)			oil Cracks (B6)	<u>cu</u>		
Surface Water (A1)	ir or one re required, erre	Water-Stained Le	eaves (B9)		Patterns (B10)			
High Water Table (A2)		— Aquatic Fauna (E			Moss Trim Lines (B16)			
Saturation (A3)		Marl Deposits (B			Ory-Season Water Table (C2)			
Water Marks (B1)	_	— Hydrogen Sulfide	e Odor (C1)	Crayfish E	rayfish Burrows (C8)			
Sediment Deposits (B2)	_	Oxidized Rhizos	oheres on Living Roots	(C3) Saturation	Saturation Visible on Aerial Imagery (C9)			
Drift Deposits (B3)	<u> </u>	Presence of Red	uced Iron (C4)	Stunted o	Stunted or Stressed Plants (D1)			
Algal Mat or Crust (B4)	_	Recent Iron Red	uction in Tilled Soils (C	6) Geomorph	Geomorphic Position (D2)			
Iron Deposits (B5)	_	Thin Muck Surfa	ce (C7)	Shallow A	Shallow Aquitard (D3)			
Inundation Visible on A		Other (Explain in	Remarks)		Microtopographic Relief (D4)			
Sparsely Vegetated Cor	ncave Surface (B8)			FAC-Neut	ral Test (D5)			
Field Observations:								
Surface Water Present?	Yes No X	_						
Water Table Present?	Yes No _X					.,		
Saturation Present? (includes capillary fringe)	Yes NoX	Depth (inches):	Wetia	nd Hydrology Presei	nt? Yes No	<u>×</u>		
Describe Recorded Data (st	ream gauge monitoring	well aerial photos	nrevious inspections)	if available:				
Describe Necorded Data (st	ream gauge, monitoring	well, aerial priotos,	previous inspections),	ii avallable.				
Remarks:								

**VEGETATION** – Use scientific names of plants. Sampling Point: G-CW-Up Absolute Dominant Indicator Tree Stratum (Plot size: 30' ) % Cover **Dominance Test worksheet:** Species? Status 15 **FACU** Pinus strobus Yes **Number of Dominant Species** Acer saccharum Yes **FACU** That Are OBL, FACW, or FAC: (A) 5 Quercus rubra Yes **FACU Total Number of Dominant** 4. Species Across All Strata: 6 (B) 5. Percent of Dominant Species 6. That Are OBL, FACW, or FAC: 0.0% (A/B) Prevalence Index worksheet: 25 =Total Cover Total % Cover of:\_\_\_\_ Sapling/Shrub Stratum (Plot size: 15' OBL species \_\_\_\_ x 1 = 10 FACW species x 2 = \_\_\_\_\_ Fagus grandifolia Yes **FACU** x 3 = Berberis thunbergii 5 Yes **FACU** FAC species 3. Daphne mezereum 10 **FACU** FACU species \_\_\_\_ x 4 = 4. UPL species x 5 = 5. Column Totals: (B) (A) 6. Prevalence Index = B/A = **Hydrophytic Vegetation Indicators:** \_\_\_\_25 =Total Cover 1 - Rapid Test for Hydrophytic Vegetation Herb Stratum (Plot size: 5' ) 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0<sup>1</sup> 4 - Morphological Adaptations<sup>1</sup> (Provide supporting 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. **Definitions of Vegetation Strata:** 8. Tree - Woody plants 3 in. (7.6 cm) or more in diameter 9. at breast height (DBH), regardless of height. Sapling/shrub - Woody plants less than 3 in, DBH and greater than or equal to 3.28 ft (1 m) tall. **Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody Vine Stratum (Plot size: \_\_\_\_\_15' \_\_\_\_) Woody vines - All woody vines greater than 3.28 ft in 1. height. Hydrophytic Vegetation Present? Yes No X =Total Cover Remarks: (Include photo numbers here or on a separate sheet.)

**SOIL** Sampling Point: G-CW-Up

Profile De	escription: (Describe	to the de	pth needed to docu	ment the	e indicato	r or con	firm the absence of ind	icators.)		
Depth	Matrix			k Feature						
(inches)	Color (moist)	<u></u> %	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-12	10YR 3/1	100					Loamy/Clayey			
			_							
								_		
		·								
<sup>1</sup> Type: C=	Concentration, D=Dep	letion, RN	/I=Reduced Matrix, C	S=Cover	ed or Coa	ted Sand	d Grains. <sup>2</sup> Location	: PL=Pore Lining, M=Matrix.		
	oil Indicators:	<u></u>	·					blematic Hydric Soils <sup>3</sup> :		
	sol (A1)		Polyvalue Below	Surface	(S8) ( <b>LR</b>	R R,	2 cm Muck (A1	10) ( <b>LRR K, L, MLRA 149B</b> )		
— Histic	Epipedon (A2)		MLRA 149B)				Coast Prairie F	Redox (A16) ( <b>LRR K, L, R</b> )		
Black	Histic (A3)		Thin Dark Surface	ce (S9) (I	LRR R, M	LRA 149	<b>B</b> ) 5 cm Mucky Po	eat or Peat (S3) (LRR K, L, R)		
— Hydro	gen Sulfide (A4)	•	High Chroma Sa	ınds (S1	1) (LRR K	(, L)	Polyvalue Below Surface (S8) (LRR K, L)			
Stratif	fied Layers (A5)	•	Loamy Mucky M	ineral (F	1) ( <b>LRR k</b>	K, L)	Thin Dark Surf	ace (S9) ( <b>LRR K, L</b> )		
Deple	eted Below Dark Surface	e (A11)	Loamy Gleyed M	1atrix (F2	2)		Iron-Manganes	se Masses (F12) ( <b>LRR K, L, R</b> )		
Thick	Dark Surface (A12)		Depleted Matrix	(F3)			Piedmont Floo	dplain Soils (F19) ( <b>MLRA 149B</b> )		
Sandy	y Mucky Mineral (S1)		Redox Dark Surf	face (F6)	)		Mesic Spodic (	(TA6) ( <b>MLRA 144A, 145, 149B</b> )		
Sandy	y Gleyed Matrix (S4)		Depleted Dark S	urface (F	<del>-</del> 7)		Red Parent Ma	aterial (F21)		
Sandy	y Redox (S5)		Redox Depression	ons (F8)			Very Shallow [	Dark Surface (TF12)		
Stripp	oed Matrix (S6)		Marl (F10) ( <b>LRR</b>	K, L)			Other (Explain	in Remarks)		
Dark	Surface (S7)									
<sup>3</sup> Indicators	s of hydrophytic vegetat	ion and v	vetland hydrology mu	st be pre	sent, unle	ss distur	bed or problematic.			
Restrictiv	e Layer (if observed):									
Type: _										
Depth (i	inches):						Hydric Soil Present?	? Yes No _X_		
Remarks:							· ·			
								eld Indicators of Hydric Soils		
version 7.0	0 March 2013 Errata. (h	nttp://www	v.nrcs.usda.gov/Interr	net/FSE_	DOCUME	NTS/nrc	s142p2_051293.docx)			



Upland G-CW-Up



**Upland G-CW-Up- Soils** 

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Saratog	a	Sampling	Date: De	cember 16, 2021		
Applicant/Owner:	СНА			State:	NY		Sampling F	Point: DP	P-DT		
Investigator(s):	Tristen Peterson			Section, To	ownship, Range:	Ballston Sp	oa	_			
Landform (hillslope,	•	Depression			f (concave, conve		Concave	S	lope (%): 1		
	·	LRR R		Lat: 42.990443°	•	ong: 73.842850		_	atum: NAD83		
Subregion (LRR or I		LNNN		Lai. 42.330470	TN EC						
Soil Map Unit Name					· · · · · · · · · · · · · · · · · · ·		NWI classification:	Not Mappe	:d		
Are climatic / hydrol	_		-				explain in Remarks				
				nificantly disturbed		e "Normal Circum	nstances" present?	Yes _	<b>X</b> No		
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (If r	needed, explain a	any answers in Rem	narks.)			
SUMMA	ARY OF FINDI	NGS – Attach	site map	showing sam	pling point l	ocations, tra	ansects, impor	tant featu	ıres, etc.		
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sampled	d Area					
Hydric Soil Prese		Yes	X No		within a Wetla		Yes X	No	<u> </u>		
Wetland Hydrolog	gy Present?	Yes	X No		If yes, optional	Wetland Site ID:	DT		_		
HYDROLOGY											
Wetland Hydrolo	ogy Indicators:					S	Secondary Indicators	s (minimum o	of two required)		
_		is required; check	all that apply)	i			Surface Soil Crack		11110104222,		
Surface Water		10 1-41,		-Stained Leaves (E	B9)		Drainage Patterns				
X High Water 1				ic Fauna (B13)	-,	·	Moss Trim Lines (E				
X Saturation (A	<b>\3</b> )		Marl D	Marl Deposits (B15) Dry-Se			Dry-Season Water	Season Water Table (C2)			
Water Marks	; (B1)		Hydro	Hydrogen Sulfide Odor (C1) Crayfish Burro							
Sediment De				ed Rhizospheres o	-	C3)	Saturation Visible				
Drift Deposits	-			Presence of Reduced Iron (C4) Stunted or Stressed Plants (D1)					)		
Algal Mat or Iron Deposits	. ,			<del>-</del>					hic Position (D2)		
· <del></del>	s (B3) 'isible on Aerial Im	agery (B7)		(Explain in Remarl		X	Shallow Aquitard (I Microtopographic F	-			
	getated Concave S			(2xpia roa	,		FAC-Neutral Test (				
Field Observatio											
Surface Water Pre		Yes No	X Depth	n (inches):							
Water Table Pres	ent?	Yes X No	Depth	n (inches): 4		Wetland Hydro	ology Present?	Yes X	No		
Saturation Presen		Yes X No	Depth	n (inches): 3							
(includes capillary			all parial phas	too provious incom	nationa) if availab	ala:					
Describe Recorde	id Data (stream ga	luge, monitoring w	eli, aeriai priot	tos, previous inspe	ections), ii avallat	ne.					
Remarks:											

ree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Quercus bicolor	25	Yes	FACW	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
Acer rubrum	20	Yes	FAC	That Are OBL, I ACW, of I AC.	(A)
				Total Number of Dominant Species Across All Strata:	2 (D)
Quercus rubra	10	No	FACU	Species Across Ali Strata:	(B)
				Percent of Dominant Species That Are OBL, FACW, or FAC:	100 (A/E
				That Are OBL, I ACW, of I AC.	(A/E
				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
	55	= Total Cover		OBL species 0	x 1 = 0
oling/Shrub Stratum (Plot size: 15 ft.)				FACW species 55	x 2 = <u>110</u>
				FAC species 20	x 3 = <u>60</u>
				FACU species 10	x 4 = 40
				UPL species 0	- · · · · · · · · · · · · · · · · · · ·
				Column Totals: 85	(A) <u>210</u> (B
				Prevalence Index = B/A =	2.47
				Hydrophytic Vegetation Indica  1 - Rapid Test for Hydrophy	
				X 2 - Dominance Test is >50%	
	0	= Total Cover		X 3 - Prevalence Index is ≤3.	
b Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation	
Onoclea sensibilis	30	Yes	FACW	data in Remarks or on a	a separate sheet)
				Problematic Hydrophytic Ve	egetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and we	tland hydrology must
			,	be present, unless disturbed or p	problematic.
				Definitions of Vegetation Strat	a:
				Tree – Woody plants 3 in. (7.6 c	
				at breast height (DBH), regardles	•
				Sapling/shrub – Woody plants I	ass than 2 in DRH
				and greater than or equal to 3.28	
				Herb – All herbaceous (non-woo	ndv) plants regardless of
D				size, and woody plants less than	
1				Woody vines – All woody vines	greater than 3.28 ft in
2				height.	3
	30	= Total Cover			
ody Vine Stratum (Plot size: 30 ft.)					
	<u></u> _	_ <del></del>		Hydrophytic	
				Vegetation Present? Yes	X No
	0	= Total Cove	r		

SOIL Sampling Point: DP-DT Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc<sup>2</sup> (inches) Texture Remarks 10YR 3/1 80 7.5YR 5/6 Sand 7.5YR 5/6 10YR 4/1 70 Sand <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: Bedrock Depth (inches): 9 Hydric Soil Present? Yes No Remarks:



Wetland DT- View facing South



Wetland DT- Soils

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Sarato	oga	Sampling Date:	December 16, 2021	
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-DT-Upland	
Investigator(s):	Tristen Peterson								
Landform (hillslope,		Terrace		·	ownship, Range f (concave, con			Slope (%): 2	
								Slope (%) 2	
Subregion (LRR or I		LRR R		Lat: 42.988555	°N	Long: 73.843495°W			
Soil Map Unit Name	: MxB- Moshe	erville-Hornell com	plex, undulating			NWI cla	ssification: Not I	Mapped	
Are climatic / hydrol	ogic conditions or	the site typical for	r this time of ye	ar? Yes	X N	o (If no, explain	in Remarks.)		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	? 4	re "Normal Circumstances	s" present?	Yes X No	
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (I	f needed, explain any ans	wers in Remarks.)		
SUMMA	ARY OF FIND	INGS – Attach	n site map s	showing sam	pling point	locations, transec	ts, important	features, etc.	
Hydrophytic Vege	tation Drocant?	Vec	No	х	Is the Sample	ad Aron			
Hydric Soil Prese		-	No		within a Wetl		No	X	
Wetland Hydrolog		-	No		If ves, optiona	al Wetland Site ID:	<del></del>		
HYDROLOGY									
Wetland Hydrolo	gy Indicators:					Seconda	ry Indicators (minir	num of two required)	
Primary Indicators	(minimum of one	is required; check	call that apply)			Surface	e Soil Cracks (B6)		
Surface Wate	er (A1)		Water-	Stained Leaves (	B9)	Draina	ge Patterns (B10)		
High Water 1				c Fauna (B13)			rim Lines (B16)		
Saturation (A	•			eposits (B15)	Dry-Season Water Table (C2)				
Water Marks			_	gen Sulfide Odor	<u> </u>				
Sediment De			_	•	nizospheres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits				nce of Reduced Iron (C4)  Stunted or Stressed Plants (D1)					
Algal Mat or	` '			Iron Reduction in	· ·	orphic Position (D2) v Aquitard (D3)			
Iron Deposits	ร (ธอ) 'isible on Aerial Im	agony (P7)		uck Surface (C7) Explain in Remar	D4)				
	getated Concave		Other (	Explain in Nemai	N3)	_	pographic Relief (l eutral Test (D5)	D <del>4</del> )	
Field Observatio						<u> </u>			
Surface Water Pre		Yes No	X Depth	(inches):					
Water Table Pres		Yes No				Wetland Hydrology P	resent? Yes	No <u>X</u>	
Saturation Presen	nt?	Yes No	·					<u> </u>	
(includes capillary	fringe)								
Describe Recorde	ed Data (stream ga	auge, monitoring w	vell, aerial photo	os, previous inspe	ections), if availa	able:			
Remarks:									
No wetland hydi	rology present a	nt data point							

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Indicator Species? Status	Dominance Test worksheet:
Acer platanoides		Yes UPL	Number of Dominant Species
			That Are OBL, FACW, or FAC: 0 (A)
			Total Number of Dominant Species Across All Strata: 3 (B)
3. Fagus grandifolia		Yes FACU	Species Across All Strata: 3 (B)
4.			Percent of Dominant Species That Are OBL, FACW, or FAC:  0 (A/B)
5			(A/B)
6			Prevalence Index worksheet:
7			Total % Cover of: Multiply by:
	90 :	= Total Cover	OBL species <u>0</u> x 1 = <u>0</u>
Sapling/Shrub Stratum (Plot size: 15 ft.)	_		FACW species $0 \times 2 = 0$
1			FAC species 0 x 3 = 0
2			FACU species 60 x 4 = 240
3			UPL species 30
4			Column Totals. 90 (A) 350 (B)
5.			Prevalence Index = B/A = 4.33
6.			Hydrophytic Vegetation Indicators:
7			1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
	0	= Total Cover	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft.)			4 - Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
1			
2			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			Tree – Woody plants 3 in. (7.6 cm) or more in diameter
7.			at breast height (DBH), regardless of height.
8.			Sapling/shrub – Woody plants less than 3 in. DBH
9.			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardless of
10.			size, and woody plants less than 3.28 ft tall.
11.			Woody vines – All woody vines greater than 3.28 ft in
12			height.
	0	= Total Cover	
Woody Vine Stratum (Plot size: 30 ft.)	_		
1.			
2			Hydrophytic Vegetation
3			Present? Yes NoX
4.			
	0	= Total Cover	
Remarks: (Include photo numbers here or on a separate she			•
No hydrophytic vegetation found at data point	/		

Sampling Point: DP-DT-Upland

SOIL Sampling Point: DP-DT-Upland Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) % Texture Remarks 10YR 4/3 100 Loam <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Black Histic (A3) Thin Dark Surface (S9) (LRR R, MLRA 149B) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Hydrogen Sulfide (A4) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Below Dark Surface (A11) Depleted Matrix (F3) Thin Dark Surface (S9) (LRR K, L) Thick Dark Surface (A12) Redox Dark Surface (F6) Iron-Manganese Masses (F12) (LRR K, L, R) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: No Depth (inches): Hydric Soil Present? Yes No X Remarks: Could not dig past 7 inches due to rock refusal, no hydric soils present at data point



**Upland DT- View facing South** 



**Upland DT- Soils** 

# **SITE 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	C	City/County: Ballston	Spa/ Saratoga	Sampling Date: 1/23/23		
Applicant/Owner: TDI			State: NY	Sampling Point: 4A-A Wet (PEM)		
Investigator(s): C. Einstein & N. Frazer		Section, Tov	vnship, Range:			
Landform (hillside, terrace, etc.): Depression	Local rel	ief (concave, conve	x, none): Concave	Slope %: 2		
Subregion (LRR or MLRA): LRR R	Lat: 42.989783	Long:	-73.845644	 Datum: DD		
Soil Map Unit Name: As - Allis silt loam			NWI classification:	PEM1		
Are climatic / hydrologic conditions on the site ty	vnical for this time of year?	Yes x	— No (If no, e	explain in Remarks.)		
			· `	,		
Are Vegetation, Soil, or Hydrolog			ial Circumstances" prese			
Are Vegetation, Soil, or Hydrolog			, explain any answers in	•		
SUMMARY OF FINDINGS – Attach si	ite map showing samp	ling point locat	ions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	'es X No	Is the Sampled Ar	ea			
Hydric Soil Present?	es X No	within a Wetland?	Yes X	No		
Wetland Hydrology Present? Ye	es X No	If yes, optional We	tland Site ID: Wetland	4A-A		
Remarks: (Explain alternative procedures here Shallow emergent marsh.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is required	i; check all that apply)		Surface Soil Cracks	(B6)		
X Surface Water (A1)	X Water-Stained Leaves (B9	9)	Drainage Patterns (	B10)		
X High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (B16)				
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water <sup>-</sup>			
Water Marks (B1)	Hydrogen Sulfide Odor (C1	·	Crayfish Burrows (C	′		
	X Oxidized Rhizospheres on	• , ,		n Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	` '		
Algal Mat or Crust (B4)	Recent Iron Reduction in T	Filled Soils (C6)	X Geomorphic Positio	` '		
Iron Deposits (B5)	Thin Muck Surface (C7)	`	Shallow Aquitard (D	,		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	5)	Microtopographic R	` '		
Sparsely Vegetated Concave Surface (B8)			X FAC-Neutral Test ([	J5)		
Field Observations: Surface Water Present? Yes X	No Depth (inches):	3				
	No Depth (inches):	3 0				
	No Depth (inches):		d Hydrology Present?	Yes X No		
(includes capillary fringe)		<u> </u>	a riyarology r rocontr	100 <u>x</u> 110		
Describe Recorded Data (stream gauge, monito	coring well, aerial photos, previ	ious inspections), if	available:			
( )		• ,-				
Remarks:						

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

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Dominant Species
				That Are OBL, FACW, or FAC: 2 (A)
				Tatal Nameh on of Densiry and
				Total Number of Dominant Species Across All Strata: 2 (B)
				(B)
				Percent of Dominant Species
·				That Are OBL, FACW, or FAC:100.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species90 x 1 =90
Salix alba	5	Yes	FACW	FACW species 5 x 2 = 10
				FAC species 0 x 3 = 0
				FACU species 0 x 4 = 0
				· — — — — — — — — — — — — — — — — — — —
				' <del></del>
	-			Column Totals: 95 (A) 100 (E
				Prevalence Index = B/A =1.05
				Hydrophytic Vegetation Indicators:
	5	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Typha latifolia	80	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Carex stricta	10	No No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
				data in Remarks or on a separate sheet)
·				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
·				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
).				
 I.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
				and greater than or equal to 3.20 it (1 iii) tall.
2		·		Herb - All herbaceous (non-woody) plants, regardles
	90	=Total Cover		of size, and woody plants less than 3.28 ft tall.
<u>oody Vine Stratum</u> (Plot size:)				Woody vines – All woody vines greater than 3.28 ft i
				height.
				Hydrophytic
				Vegetation Present? Yes X No
		=Total Cover		
·				

SOIL Sampling Point 4A-A Wet (PEM)

Depth	Matrix	o tile de		lox Featur		ator or ct	onfirm the absence o	or mulcators.,	
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-2	10YR 2/1	100					Sandy		
2-18	10YR 3/2	70	7.5YR 3/4	5	c	_PL_	Sandy	Distinct redox concentrations	
			10YR 2/1	5		<u>m</u>		Faint redox concentrations	
			10YR 5/6		c	m		Prominent redox concentrations	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM	I=Reduced Matrix,	– —— MS=Mas	ked San	d Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.	
Hydric Soil		· ·						for Problematic Hydric Soils <sup>3</sup> :	
Histosol	` '		Dark Surface	` '				uck (A10) ( <b>LRR K, L, MLRA 149B</b> )	
	pipedon (A2)		Polyvalue Be		ce (S8) (	(LRR R,		Prairie Redox (A16) (LRR K, L, R)	
Black Hi	, ,		MLRA 149	,				ucky Peat or Peat (S3) (LRR K, L, R)	
	n Sulfide (A4)		Thin Dark Su					ue Below Surface (S8) (LRR K, L)	
	d Layers (A5)	(111)	High Chroma					ark Surface (S9) (LRR K, L)	
	d Below Dark Surface ark Surface (A12)	(A11)	Loamy Mucky	-		K K, L)		inganese Masses (F12) ( <b>LRR K, L, R</b> ) ont Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
	podic (A17)		Depleted Mat		1 2)			rent Material (F21) (outside MLRA 145)	
	A 144A, 145, 149B)		Redox Dark S		<del>-</del> 6)		Very Shallow Dark Surface (F22)		
•	lucky Mineral (S1)		Depleted Dar					Explain in Remarks)	
	Gleyed Matrix (S4)		Redox Depre					,	
X Sandy R	Redox (S5)		Marl (F10) ( <b>L</b>	-	,		<sup>3</sup> Indicat	ors of hydrophytic vegetation and	
Stripped	Matrix (S6)		Red Parent N	Material (F	21) <b>(ML</b>	RA 145)		nd hydrology must be present,	
Restrictive I	Layer (if observed):						unies	s disturbed or problematic.	
Туре:									
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No	
Remarks:									



Wetland 4A-A (PEM) - View facing east



Wetland 4A-A (PEM) - Soils

## **SITE 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/County: Ballstor	n/Saratoga	Sampling Date: 4/11/2023
Applicant/Owner: TDI			State: NY	Sampling Point: 4A-A Wet (PFO)
Investigator(s): J. Greaves & N. Frazer		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): Depressio	n Local re	elief (concave, conve	ex. none): Concave	Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: 42.990274	-	-73.845782	· Datum: DD
Soil Map Unit Name: As - Allis silt loam		5		PF02
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes x		explain in Remarks.)
			`	,
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	,
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID: Wetland	4A-A near flag 38
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
Hemlock northern hardwood swamp.				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	(B6)
X Surface Water (A1)	X Water-Stained Leaves (BS	9)	X Drainage Patterns (	•
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	·
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	· ·
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	·
X Sediment Deposits (B2)	Oxidized Rhizospheres or			n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron	` ,	Stunted or Stressed	· ·
Algal Mat or Crust (B4) Iron Deposits (B5)	Recent Iron Reduction in Thin Muck Surface (C7)	Tilled Solis (Co)	X Geomorphic Positio	
Inundation Visible on Aerial Imagery (B7)		re)	Shallow Aquitard (D Microtopographic Re	
Sparsely Vegetated Concave Surface (B.	· ——	5)	X FAC-Neutral Test (	
Field Observations:			<u></u>	
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):	0 Wetlan	d Hydrology Present?	Yes X No
(includes capillary fringe)				
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

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

Taga Chrahima (Diahaina) 201	Absolute	Dominant	Indicator	Barrimana Tast wallahasti			
Tree Stratum (Plot size: 30' )	% Cover	Species?	Status	Dominance Test worksheet:			
1. Tsuga canadensis	70	Yes	FACU	Number of Dominant Species			
2. Ulmus americana	10	No	FACW	That Are OBL, FACW, or FAC:4 (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: 80.0% (A/B)			
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. Lindera benzoin	5	Yes	FACW	FACW species 75 x 2 = 150			
2. Betula populifolia	5	Yes	<u>FAC</u>	FAC species15 x 3 =45			
3.				FACU species70 x 4 =280			
4				UPL species0 x 5 =0			
5				Column Totals: 160 (A) 475 (B)			
6.				Prevalence Index = B/A =2.97			
7				Hydrophytic Vegetation Indicators:			
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation			
Herb Stratum (Plot size:)				X 2 - Dominance Test is >50%			
1. Impatiens capensis	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>			
2. Onoclea sensibilis	30	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting			
3. Acer rubrum	5	No	FAC	data in Remarks or on a separate sheet)			
4. Betula populifolia	5	No	FAC	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.				Senting Johnsh Woody, plants loss than 2 in DDI			
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.			
12.				Hart All back as a configuration of the second seco			
	70	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless 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			
Δ				Vegetation Present? Yes X No			
T		=Total Cover					
Pomarke: (Include photo numbers here or on a separ	rato shoot )						
Remarks: (Include photo numbers here or on a separ	aic siieel.)						

Sampling Point: 4A-A Wet (PFO)

SOIL Sampling Point 4A-A Wet (PFO)

Profile Descr	ription: (Describe t	o the de	pth needed to docu	ıment tl	ne indica	ator or co	onfirm the absence of	indicators.)		
Depth	Matrix			k Featur						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-7	10YR 2/1	100					Sandy			
7-11	10YR 4/2	70	10YR 3/6	20	c	<u>m</u>	Sandy	Prominent redox concentrations		
			10YR 3/1	10	c	<u>m</u>		Faint redox concentrations		
11-16	10YR 3/6	80	7.5YR 3/4		<u> </u>	<u>m</u>	Sandy	Distinct redox concentrations		
								_		
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RN	/I=Reduced Matrix, M	1S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL	=Pore Lining, M=Matrix.		
Hydric Soil Ir								r Problematic Hydric Soils <sup>3</sup> :		
Histosol (	•		X Dark Surface (	•				k (A10) (LRR K, L, MLRA 149B)		
I —	pedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,	Coast Prairie Redox (A16) (LRR K, L, R)			
Black His	นิต (A3) ı Sulfide (A4)		MLRA 149B) Thin Dark Surfa	•	/I PP P	MIDA		lucky Peat or Peat (S3) ( <b>LRR K, L, R</b> ) ue Below Surface (S8) ( <b>LRR K, L</b> )		
	Layers (A5)		High Chroma S		-			Surface (S9) (LRR K, L)		
	Below Dark Surface	(A11)	Loamy Mucky I					ganese Masses (F12) (LRR K, L, R)		
	k Surface (A12)	( )	Loamy Gleyed			, -,	Piedmont Floodplain Soils (F19) (MLRA 149B)			
	odic (A17)		Depleted Matrix		,			nt Material (F21) (outside MLRA 145)		
(MLRA	A 144A, 145, 149B)		Redox Dark Su	ırface (F	6)		Very Shal	low Dark Surface (F22)		
	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Ex	plain in Remarks)		
	eyed Matrix (S4)		Redox Depress		3)		3			
Sandy Re			Marl (F10) ( <b>LR</b>		04) (84) F	24.45	<sup>3</sup> Indicators of hydrophytic vegetation and			
Stripped i	Matrix (S6)		Red Parent Ma	iteriai (F	21) (WILI	KA 145)	wetland hydrology must be present, unless disturbed or problematic.			
Restrictive L	ayer (if observed):						uniess	disturbed of problematic.		
Type:	-, (,-									
Depth (in	ches):						Hydric Soil Present	? Yes X No		
Remarks:										



Wetland 4A-A (PFO) - View facing east



Wetland 4A-A (PFO) - Soils

Segment 6-Package 4A

**SITE 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/County: Ballston	n Spa/ Saratoga	Sampling Date: 1/23/23			
Applicant/Owner: TDI			State: NY	Sampling Point: 4A-A Upl			
Investigator(s): C. Einstein & N. Frazer		Section, To	wnship, Range:				
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	ex. none): Convex	Slope %: 2			
Subregion (LRR or MLRA): LRR R	Lat: 42.990314	•	-73.846003	' Datum: DD			
Soil Map Unit Name: As - Allis silt loam			NWI classification:				
Are climatic / hydrologic conditions on the site	typical for this time of year?	Yes x	<del></del>	explain in Remarks.)			
			mal Circumstances" prese	,			
Are Vegetation, Soil, or Hydro			•				
Are Vegetation, Soil, or Hydro			d, explain any answers in	•			
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, ım	iportant features, etc.			
Hydrophytic Vegetation Present?	Yes No _X	Is the Sampled A	rea	1			
Hydric Soil Present?	Yes No X	within a Wetland		No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We	tland Site ID: Upland a	adjacent to Wetland 4A-A			
Remarks: (Explain alternative procedures he Successional old filed (periodically mowed) a because its all the same adjacent to the wetle	along a gravel access road. Sha	ared upland point for	the PEM and PFO comm	nunities of Wetland 4A-A			
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (n	ninimum of two required)			
Primary Indicators (minimum of one is requir	ed; check all that apply)		Surface Soil Cracks				
Surface Water (A1)	Water-Stained Leaves (B	19)	Drainage Patterns (	(B10)			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	•			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water				
— Water Marks (B1)	Hydrogen Sulfide Odor (C	·	Crayfish Burrows (C	•			
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)			
Drift Deposits (B3)	Presence of Reduced Iron	` '	Stunted or Stressed	i i			
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (Co)					
Iron Deposits (B5)	Thin Muck Surface (C7) Other (Explain in Remark)	(0)	Shallow Aquitard (D3) Microtopographic Relief (D4)				
Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B	· — · · · ·	.S)	FAC-Neutral Test (I				
Field Observations:	<u></u>			33)			
Surface Water Present? Yes	No X Depth (inches):						
Water Table Present? Yes	No X Depth (inches):						
Saturation Present? Yes	No Depth (inches):		d Hydrology Present?	Yes No _ X			
(includes capillary fringe)		<del></del>					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:				
Remarks:							
Remarks.							

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

Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata:(B)
5. 6.				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species0 x1 =0
1				FACW species 0 x 2 = 0
2.				FAC species10 x 3 =30
3.				FACU species90 x 4 =360
4				UPL species0 x 5 =0
5				Column Totals: 100 (A) 390 (B)
6.				Prevalence Index = B/A = 3.90
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. Lobelia inflata	10	No	FACU	4 - Morphological Adaptations (Provide supporting
3. Galium boreale	10	No	FAC	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:
Q				_
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – 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.
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 separ	rate sheet )			
Tremains. (include photo numbers here of on a separ	ate sneet.)			

Sampling Point:

4A-A Upl

SOIL Sampling Point 4A-A Upl

Profile Desc Depth	ription: (Describe t Matrix	o the de	-	<b>ument th</b> x Feature		itor or co	onfirm the absence of indic	ators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remar	ks
0-2	10YR 3/4	100			<del></del>		Sandy		
2-8	10YR 4/4	100					Sandy		
									_
8-18	10YR 3/4	100					Sandy		
									_
									_
			-						
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion RN	M=Reduced Matrix N	 //S=Masi	ed Sand		<sup>2</sup> Location: PL=Pore	e Lining M=Ma	trix
Hydric Soil I		0.1011, 11.1	Troduced Matrix, I	10 Maoi	nou ounc	· Oranio.	Indicators for Pro		
Histosol	(A1)		Dark Surface (	S7)			2 cm Muck (A1	0) ( <b>LRR K, L, N</b>	MLRA 149B)
	oipedon (A2)		Polyvalue Belo		ce (S8) (I	LRR R,		Redox (A16) (LR	· ·
— Black His			MLRA 149B	,				eat or Peat (S3)	
	n Sulfide (A4)		Thin Dark Surf		-		· — ·	w Surface (S8)	
	l Layers (A5) l Below Dark Surface	(Δ11)	High Chroma S					ace (S9) ( <b>LRR I</b> se Masses (F12	n, L) ) (LRR K, L, R)
	ark Surface (A12)	(7,11)	Loamy Gleyed			<b>₹ 1</b> ₹, <b>∟</b> )			9) ( <b>MLRA 149B</b> )
	oodic (A17)		Depleted Matri		- –,				tside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		<sup>7</sup> 6)			Oark Surface (F2	
Sandy M	lucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Explain	in Remarks)	
	leyed Matrix (S4)		Redox Depress	sions (F8	8)		•		
	edox (S5)		Marl (F10) ( <b>LR</b>					ydrophytic vege	
Stripped	Matrix (S6)		Red Parent Ma	iterial (F	21) <b>(MLF</b>	RA 145)		ology must be p	
Restrictive I	_ayer (if observed):						uniess distur	bed or problem	atic.
Type:	-uyo: ( oboo: vou).								
Depth (ir	nches):						Hydric Soil Present?	Yes	No X
Remarks:									



**Upland 4A-A (PFO) - View facing north** 



Upland 4A-A (PEM) – view facing west

## **SITE PHOTOGRAPHS**



**Upland 4A-A (PEM & PFO) - Soils** 

Segment 6-Package 4A

**SITE 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/C	County: Ballston Spa/	/ Saratoga	Sampling Date: 1/23/23
Applicant/Owner: TDI			State: NY	Sampling Point: 4A-B Wet
Investigator(s): C. Einstein & N. Frazer		Section, Township	p, Range:	<u> </u>
Landform (hillside, terrace, etc.): Depression	Local relief (c	concave, convex, nor	ne): Concave	Slope %: 2
Subregion (LRR or MLRA): LRR R	Lat: 42.988108	Long: -73.8	•	' Datum: DD
Soil Map Unit Name: MxB - Mosherville-Hornell			NWI classification:	
Are climatic / hydrologic conditions on the site type				explain in Remarks.)
Are Vegetation, Soil, or Hydrology			rcumstances" preser	
Are Vegetation, Soil, or Hydrology	<u> </u>		lain any answers in F	•
SUMMARY OF FINDINGS – Attach sit	te map showing sampling	g point locations	s, transects, imp	portant features, etc.
Hydrophytic Vegetation Present? Ye	es X No Is ti	the Sampled Area		
Hydric Soil Present? Ye	es X No with	thin a Wetland?	Yes X	No
Wetland Hydrology Present? Ye	es X No If ye	es, optional Wetland	Site ID: Wetland 4	łА-В
Remarks: (Explain alternative procedures here	or in a separate report.)			
Red maple hardwood swamp.				
HYDROLOGY				
Wetland Hydrology Indicators:		Seco	ondary Indicators (mi	inimum of two required)
Primary Indicators (minimum of one is required;	; check all that apply)		Surface Soil Cracks	(B6)
<del></del>	X Water-Stained Leaves (B9)		Drainage Patterns (E	•
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B1	·
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water T	
Water Marks (B1)	Hydrogen Sulfide Odor (C1)		Crayfish Burrows (C	·
X Sediment Deposits (B2)	Oxidized Rhizospheres on Livir	· · · · —		Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled	· —	Stunted or Stressed Geomorphic Position	
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)	` ' —	Shallow Aquitard (D3	` '
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)		Microtopographic Re	
Sparsely Vegetated Concave Surface (B8)			FAC-Neutral Test (D	
Field Observations:		<del></del>	,	-1
	No Depth (inches): 1			
	No Depth (inches):0	<b>—</b>		
Saturation Present? Yes X N	No Depth (inches): 0	Wetland Hyd	drology Present?	Yes <u>X</u> No
(includes capillary fringe)				<del></del>
Describe Recorded Data (stream gauge, monito	oring well, aerial photos, previous	inspections), if availa	able:	
Dandra.				
Remarks:				

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

<b>EGETATION</b> – Use scientific names of pla				Sampling Point:	4A-B Wet	
Free Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
. Acer rubrum	85	Yes	FAC	Number of Dominant Species		
2. Fraxinus pennsylvanica	5	No	FACW	That Are OBL, FACW, or FAC:	3 (A)	
3.				Total Number of Dominant		
l				Species Across All Strata:	4 (B)	
5.		·		Percent of Dominant Species		
5.				That Are OBL, FACW, or FAC:	75.0% (A/B)	
7.				Prevalence Index worksheet:	<del>_</del>	
	90	=Total Cover		Total % Cover of: M	lultiply by:	
Sapling/Shrub Stratum (Plot size:15')		•		OBL species 10 x 1 =	10	
. Acer rubrum	15	Yes	FAC	FACW species 50 x 2 =	100	
2. Lonicera morrowii	15	Yes	FACU	FAC species 105 x 3 =	315	
Berberis thunbergii	5	No	FACU	FACU species 20 x 4 =	80	
1. Lindera benzoin	5	No	FACW	UPL species 0 x 5 =	0	
5.				Column Totals: 185 (A)	505 (B)	
6.				Prevalence Index = B/A =	2.73	
7.	-	,		Hydrophytic Vegetation Indicators	<del></del> -	
	40	=Total Cover		1 - Rapid Test for Hydrophytic Ve		
Herb Stratum (Plot size: 5' )		,		X 2 - Dominance Test is >50%	Ü	
1. Onoclea sensibilis	35	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Carex straminea	10	No	OBL	4 - Morphological Adaptations <sup>1</sup> (F	Provide supportin	
3. Lindera benzoin	5	No No	FACW	data in Remarks or on a separate sheet)		
4. Dryopteris intermedia	5	No	FAC	Problematic Hydrophytic Vegetal	tion <sup>1</sup> (Evolain)	
5.				1.		
6.		·		<sup>1</sup> Indicators of hydric soil and wetland be present, unless disturbed or problem		
7				Definitions of Vegetation Strata:		
8				Tree – Woody plants 3 in. (7.6 cm) o		
9.				diameter at breast height (DBH), rega	ardless of height.	
11.				Sapling/shrub – Woody plants less and greater than or equal to 3.28 ft (		
12.				, ,	,	
	 55	=Total Cover		Herb – All herbaceous (non-woody) pof size, and woody plants less than 3		
Woody Vine Stratum (Plot size: 30' )						
				<b>Woody vines</b> – All woody vines greatheight.	iter than 3.28 ft ir	
				neight.		
				Hydrophytic		
3		. ——		Vegetation		
4		·		Present? Yes X No	'	
		=Total Cover				

SOIL Sampling Point 4A-B Wet

Depth	Matrix		Redox	x Featur	es		onfirm the absence o	,		
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks		
0-9	10YR 2/1	70	7.5YR 4/6	_20_	C	m	Sandy	Prominent redox concentrations		
			7.5YR 3/4	10	c	<u>m</u>		Prominent redox concentrations		
9-16	10YR 3/1	65	2.5Y 3/1	10	d_	m_	Sandy			
			5YR 3/4	5	C	m		Prominent redox concentrations		
			10YR 3/6	20	C	m_		Prominent redox concentrations		
16-18	2.5Y 4/2	80	7.5YR 4/6		C	m_	Sandy	Prominent redox concentrations		
		_								
<sup>1</sup> Type: C=C	oncentration, D=Deple	etion, RI	л=Reduced Matrix, №	1S=Mas	ked Sand	d Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.		
Hydric Soil								for Problematic Hydric Soils <sup>3</sup> :		
Histosol	` '		X Dark Surface (		.=			uck (A10) (LRR K, L, MLRA 149B)		
	oipedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,		Prairie Redox (A16) (LRR K, L, R)		
— Black Hi	` ,		MLRA 149B)	,	) // DD D	MIDA		ucky Peat or Peat (S3) (LRR K, L, R)		
	n Sulfide (A4)		X Thin Dark Surfa					ue Below Surface (S8) (LRR K, L)		
	d Layers (A5)	/ <b>\11</b> \	High Chroma S					rk Surface (S9) (LRR K, L)		
	d Below Dark Surface ark Surface (A12)	(A11)	Loamy Mucky I			R K, L)		nganese Masses (F12) ( <b>LRR K, L, R</b> )		
	podic (A17)		Loamy Gleyed Depleted Matrix		,FZ)			nt Floodplain Soils (F19) ( <b>MLRA 149B</b> ) rent Material (F21) <b>(outside MLRA 145</b> ]		
	AA 144A, 145, 149B)		Redox Dark Su		<del>-</del> 6)		Very Shallow Dark Surface (F22)			
	Mucky Mineral (S1)		Depleted Dark				Other (Explain in Remarks)			
	Gleyed Matrix (S4)		Redox Depress				Other (E	-Apiairi iri Nemarko)		
X Sandy R			Marl (F10) (LR		0)		<sup>3</sup> Indicate	ors of hydrophytic vegetation and		
X Stripped			Red Parent Ma		<sup>2</sup> 21) <b>(ML</b> F	RA 145)	wetlar	nd hydrology must be present, s disturbed or problematic.		
Restrictive	Layer (if observed):						46	y alouation of problemation		
Type:										
Depth (ii	nches):						Hydric Soil Prese	nt? Yes X No		
Remarks:										



Wetland 4A-B - View facing north



Wetland 4A-B - Soils

# **SITE PHOTOGRAPHS**

#### U.S. Army Corps of Engineers

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

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

Project/Site: CHPE		City/County: Ballston	n Spa/ Saratoga	Sampling Date: 1/23/23		
Applicant/Owner: TDI			State: NY	Sampling Point: 4A-B Upl		
Investigator(s): C. Einstein & N. Frazer		Section, To	wnship, Range:			
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Convex	Slope %: 20		
Subregion (LRR or MLRA): LRR R	Lat: 42.987620	•	-73.844293	' Datum: DD		
Soil Map Unit Name: MxB - Mosherville-Horn			NWI classification:			
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)		
			<del></del> `	,		
Are Vegetation, Soil, or Hydro	<del></del>		nal Circumstances" prese			
Are Vegetation, Soil, or Hydro			d, explain any answers in	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	nportant features, etc.		
Hydrophytic Vegetation Present?	Yes No _X_	Is the Sampled A	rea			
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X		
Wetland Hydrology Present?	Yes No _X	If yes, optional We	tland Site ID: <u>Upland a</u>	adjacent to Wetland 4A-B		
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
Mixed white pine/deciduous forest.						
HYDROLOGY						
			O d Indicators /n			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required)	rad: aback all that apply)			ninimum of two required)		
Surface Water (A1)	Water-Stained Leaves (B	20)	Surface Soil Cracks Drainage Patterns (			
High Water Table (A2)	Aquatic Fauna (B13)	99)	Moss Trim Lines (B			
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	•		
Water Marks (B1)	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (0			
Sediment Deposits (B2)	Oxidized Rhizospheres or	· ·	<u> </u>	on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	• • • •		
Algal Mat or Crust (B4)	Recent Iron Reduction in					
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)				
Inundation Visible on Aerial Imagery (B7		(s)	Microtopographic R			
Sparsely Vegetated Concave Surface (B	·—	,	FAC-Neutral Test (	` '		
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):		d Hydrology Present?	Yes No _X_		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

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

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Pinus strobus	55	Yes	FACU	
2. Acer rubrum	15	No	FAC	Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3. Quercus alba	5	No	FACU	
Populus deltoides	5	No	FAC	Total Number of Dominant Species Across All Strata: 7 (B)
5.				``
6.				Percent of Dominant Species That Are OBL, FACW, or FAC: 14.3% (A/B)
7				Prevalence Index worksheet:
	80	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species0 x 1 =0
Berberis thunbergii	20	Yes	FACU	FACW species0 x 2 =0
2. Acer rubrum	10	Yes	FAC	FAC species30 x 3 =90
3. Pinus strobus	5	No	FACU	FACU species115 x 4 =460
4. Fagus grandifolia	5	No	FACU	UPL species0 x 5 =0
5.				Column Totals: 145 (A) 550 (B)
6.				Prevalence Index = B/A = 3.79
7.				Hydrophytic Vegetation Indicators:
	40	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Berberis thunbergii	10	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Fagus grandifolia	5	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Pinus strobus	5	Yes	FACU	data in Remarks or on a separate sheet)
4. Mitchella repens	5	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				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				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	25	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3.		. <u></u>		Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: 4A-B Upl

SOIL Sampling Point 4A-B Upl

Profile Desc Depth	ription: (Describe t Matrix	to the de		<b>ument th</b> x Featur		ator or co	onfirm the absence of i	indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Re	marks
0-11	10YR 3/3	100			<del></del>		Loamy/Clayey		
11-18	10YR 4/6	100					Sandy		
11-10	10114/0	100					Sandy		
	ncentration, D=Depl	etion, RN	/I=Reduced Matrix, N	/IS=Mas	ked Sand	d Grains.		=Pore Lining, M=	
Hydric Soil I			<b>5</b> 1 0 1	o=\				Problematic H	-
— Histosol	` '		Dark Surface (		oo (CO) (	I DD D			L, MLRA 149B)
Black His	ipedon (A2)		Polyvalue Belo		ce (So) (	LKK K,		irie Redox (A16)	(S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surf	,	(LRR R	. MLRA 1		Below Surface (	
	Layers (A5)		High Chroma S		-			Surface (S9) (LI	
	Below Dark Surface	(A11)	Loamy Mucky						F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)	-	Piedmont	Floodplain Soils	(F19) ( <b>MLRA 149B</b> )
Mesic Sp	oodic (A17)		Depleted Matri	x (F3)			Red Parer	nt Material (F21)	(outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		-			low Dark Surface	
	ucky Mineral (S1)		Depleted Dark				Other (Exp	olain in Remarks	s)
	leyed Matrix (S4)		Redox Depress		3)		31		
	edox (S5) Matrix (S6)		Marl (F10) (LR Red Parent Ma		21) /MI E	2A 14E)		of hydrophytic v hydrology must	=
— Stripped	Matrix (30)		Neu Falent Wa	iteriai (i	21) (IVILI	XA 143)		disturbed or prob	
Restrictive L	.ayer (if observed):						unios c	alotarboa or prob	iomate.
Type:	,								
Depth (in	iches):						Hydric Soil Present	? Yes	No X
Remarks:									



**Upland 4A-B - View facing south** 



**Upland 4A-B - Soils** 

## **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Coun	nty: Sarato	ga	Sampling D	Date: December 1	16, 2021
Applicant/Owner:	CHA		<u> </u>	State:	NY		Sampling P	Point: DP-DU	
Investigator(s):	Tristen Peterson	<u> </u>		Section, To	ownship, Range:	: Ballston S	Boa		
Landform (hillslope,		Depression			f (concave, conv	•	Concave	Slope (%):	1
	•				•			Datum: NA	
Subregion (LRR or I	-	LRR R		Lat: 42.983228°	<u>'N</u> L	Long: 73.845262			D03
Soil Map Unit Name							NWI classification:	Not Mapped	
Are climatic / hydrol	-		-			) (If no	o, explain in Remarks.		
Are Vegetation	, Soil	, or Hydrology	sign	ificantly disturbed	l? Ar	re "Normal Circur	mstances" present?	Yes <b>X</b>	No
Are Vegetation	, Soil	, or Hydrology	natu	urally problematic?	? (If	needed, explain	any answers in Rem	arks.)	
SUMMA	ARY OF FIND	NGS – Attach	site map	showing sam	ıpling point	locations, tr	ansects, import	tant features, et	tc
Hydrophytic Vege	etation Present?	Yes	X No		Is the Sample	ed Area			
Hydric Soil Preser		Yes	X No		within a Wetla		Yes X	No	
Wetland Hydrolog		Yes _	X No		If yes, optional	l Wetland Site ID	: <u>DU</u>		
HYDROLOGY									
Wetland Hydrolo	oav Indicators:						Secondary Indicators	(minimum of two req	uired)
1		e is required; check	all that apply)	١			Surface Soil Cracks		ui. 5 a,
Surface Water	•	15 roquirou, circeii		-Stained Leaves (E	B9)	x			
High Water T				ic Fauna (B13)	50,	_	Moss Trim Lines (B		
Saturation (A				Deposits (B15)			Dry-Season Water	-	
Water Marks	•			gen Sulfide Odor (	(C1)		Crayfish Burrows (C		
Sediment De	eposits (B2)		Oxidiz	zed Rhizospheres o	on Living Roots	(C3)	Saturation Visible o	on Aerial Imagery (C9	))
Drift Deposits	:s (B3)		Preser	nce of Reduced Iro	on (C4)	_	Stunted or Stressed	d Plants (D1)	
Algal Mat or	Crust (B4)		Recen	nt Iron Reduction in	n Tilled Soils (C6	6) <u>X</u>	Geomorphic Positio	on (D2)	
Iron Deposits	s (B5)		Thin M	Muck Surface (C7)		_	Shallow Aquitard (D	·	
	/isible on Aerial Im		Other	(Explain in Remark	ks)	_	Microtopographic R		
Sparsely Veo	getated Concave S	Surface (B8)					FAC-Neutral Test (I	D5)	
Field Observation						<del>_</del>			
Surface Water Pre		Yes No							
Water Table Prese		Yes No				Wetland Hydr	rology Present?	Yes X No	·—
Saturation Presen (includes capillary		Yes No _	Depth	h (inches):					
<u> </u>		auge, monitoring we	ell aerial phot	tos previous inspe	ections), if availa	aple.			
20001.20	A Data (Stream)	iugo, momenia	on, acras pro-	00, promode	70tione <sub>7</sub> ,	ibio.			
Remarks:									

Absolute % Cover		Indicator Status	Dominance Test worksheet:	
	Орсскоз	Otatas	Number of Dominant Species	
			That Are OBL, FACW, or FAC:	(A)
			Total Number of Dominant	
			Species Across All Strata:	(B)
			Percent of Dominant Species	
			That Are OBL, FACW, or FAC:	(A/E
				: Multiply by:
	= Total Cover		-	x 1 = 5
	- 10tai 00voi		105	$x = \frac{1}{210}$
_			· ·	
15	Yes	FACW		
			•	
			Column rotals.	(//) <u>210</u> (E
			Prevalence Index = B/A	= 1.95
			Hydronhytic Vegetation India	rators:
			1 , , , ,	
			X 2 - Dominance Test is >5	· -
15	= Total Cover		X 3 - Prevalence Index is ≤3	3.0 <sup>1</sup>
_			4 - Morphological Adapta	
90	Yes	FACW	data in Remarks or or	a separate sheet)
5	No	OBL	Problematic Hydrophytic	Vegetation <sup>1</sup> (Explain)
	· ·			
			-	·
			bo procent, amose distarbed of	problematic.
			Definitions of Vegetation Str	ata:
			Tree – Woody plants 3 in. (7.6	cm) or more in diameter
			at breast height (DBH), regard	less of height.
			Sapling/shrub – Woody plants	s less than 3 in. DBH
			and greater than or equal to 3.	28 ft (1 m) tall.
			Herb – All herbaceous (non-we	oody) plants, regardless of
			size, and woody plants less that	an 3.28 ft tall.
			Woody vines – All woody vine	s greater than 3.28 ft in
			height.	
95	= Total Cover			
<u></u>				
			Hydrophytic	
			Vegetation	v
			Present? Yes	X No
				9% Cover Species? Status Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet: Total % Cover of:  OBL species 5 FACW species 0 FACU species 0 UPL species 0 UPL species 0 Column Totals: 110  Prevalence Index = B/A Hydrophytic Vegetation India X 1 - Rapid Test for Hydrop X 2 - Dominance Test is >5 X 3 - Prevalence Index is >5 X 3 - Prevalence Index is or or A - Morphological Adapta data in Remarks or or Problematic Hydrophytic:  1 Indicators of hydric soil and we be present, unless disturbed o Definitions of Vegetation Str Tree - Woody plants 3 in. (7.6 at breast height (DBH), regard Sapling/shrub - Woody plants and greater than or equal to 3. Herb - All herbaceous (non-we size, and woody plants less the Woody vines - All woody vines height.  Hydrophytic  Hydrophytic

SOIL Sampling Point: DP-DU Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Redox Features Color (moist) Color (moist) Loc<sup>2</sup> (inches) Texture Remarks 0-15 2.5Y 4/1 80 10YR 5/6 Clay 10YR 5/6 2.5Y 5/1 60 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland DU- View facing South



**Wetland DU- Soils** 

## **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Cour	nty: Sarato	oga	Sampling Date:	December 16, 2021
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-DU-Upland
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Ballston Spa	_	
Landform (hillslope,		Terrace		·	f (concave, con			Slope (%): 1
	•							<u> </u>
Subregion (LRR or I		LRR R		Lat: 42.986927	°N	Long: 73.844155°W		Datum: NAD83
Soil Map Unit Name	: MxB - Mosh	erville-Hornell com	plex, undulatin	g		NWI cla	ssification: Not N	Mapped
Are climatic / hydrole	ogic conditions or	the site typical for	this time of ye	ar? Yes	<b>X</b> N	o (If no, explain	in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	signi	ificantly disturbed	? A	re "Normal Circumstances	s" present?	Yes X No
Are Vegetation						f needed, explain any ans	wers in Remarks.)	
SUMMA	ARY OF FIND	NGS – Attach	site map s	showing sam	pling point	locations, transec	ts, important	features, etc.
Hydrophytic Vege	tation Present?	Yes	No	Х	Is the Sample	ed Area		
Hydric Soil Preser	nt?	Yes _			within a Wetl	and? Yes	No	X
Wetland Hydrolog	y Present?	Yes _	No	Х	If yes, optiona	al Wetland Site ID:		
HYDROLOGY								
Wetland Hydrolo	av Indicators:					Seconda	rv Indicators (minir	num of two required)
_		is required; check	all that apply)				e Soil Cracks (B6)	num or the roganiza,
Surface Water		13 roquirou, cc		Stained Leaves (F	R9)		ge Patterns (B10)	
High Water T				c Fauna (B13)	D9)		rim Lines (B16)	
Saturation (A				eposits (B15)			ason Water Table	(C2)
Water Marks	-		' <u></u> '	gen Sulfide Odor (	(C1)		h Burrows (C8)	()
Sediment De				ed Rhizospheres			ion Visible on Aeri	al Imagery (C9)
Drift Deposits	s (B3)			nce of Reduced Iro	_	· ·	d or Stressed Plant	
Algal Mat or	Crust (B4)		Recent	t Iron Reduction ir	n Tilled Soils (C	6) Geomo	orphic Position (D2)	)
Iron Deposits	s (B5)		Thin M	luck Surface (C7)		Shallow	v Aquitard (D3)	
	isible on Aerial Im		Other (	(Explain in Remar	·ks)	_	pographic Relief (I	D4)
Sparsely Veg	getated Concave	Surface (B8)				FAC-N	eutral Test (D5)	
Field Observation								
Surface Water Pre	esent?	Yes No						
Water Table Prese		Yes No				Wetland Hydrology P	resent? Yes	No <u>X</u>
Saturation Presen		Yes No	X Depth	(inches):				
(includes capillary		auge, monitoring w	roll parial photo	oo provious inspe	actions) if avails	ahlar		
Describe Necordo	u Dala (Sireain ge	auge, monitoring w	ell, aeriai prioc	JS, PIEVIOUS IIISPO	tilions), n avam	able.		
Remarks:								
No wetland hydr	ology present a	it data point						

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover		ndicator Status	Dominance Test worksheet:	
Pinus strobus		Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)	`
Carpinus caroliniana			FAC	. That Are OBL, FACW, or FAC: 0 (A)	,
Acer platanoides			UPL	Total Number of Dominant Species Across All Strata: 3 (B)	)
o. Ace platanoides	20	103	OI L	<u> </u>	,
4				Percent of Dominant Species That Are OBL, FACW, or FAC:  0 (A)	/B)
5					,
6				Prevalence Index worksheet:	
7		<del></del> -		Total % Cover of: Multiply by:	
	75	= Total Cover		OBL species 0 x 1 = 0	
Sapling/Shrub Stratum (Plot size: 15 ft.)	-			FACW species $0$ $x 2 = 0$ FAC species $10$ $x 3 = 30$	
1				FACU species 55 x 4 = 220	
2				UPL species 20 x 5 = 100	
3				Column Totals: 85 (A) 350 (I	B)
4					
5				Prevalence Index = B/A = 4.11	
6.				Hydrophytic Vegetation Indicators:	
7.				1 - Rapid Test for Hydrophytic Vegetation	
				2 - Dominance Test is >50%	
Herb Stratum (Plot size: 5 ft.)	0	= Total Cover		3 - Prevalence Index is ≤3.0 <sup>1</sup> 4 - Morphological Adaptations <sup>1</sup> (Provide supporting	
, , , , , , , , , , , , , , , , , , ,	-			data in Remarks or on a separate sheet)	
Symphoricarpos albus		Yes	FACU		
2				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				Tree – Woody plants 3 in. (7.6 cm) or more in diameter	
7				at breast height (DBH), regardless of height.	
8				Sapling/shrub – Woody plants less than 3 in. DBH	
9.				and greater than or equal to 3.28 ft (1 m) tall.	
10				Herb – All herbaceous (non-woody) plants, regardless of	
11.				size, and woody plants less than 3.28 ft tall.	
				Woody vines – All woody vines greater than 3.28 ft in	
12.				height.	
	10	= Total Cover			
Woody Vine Stratum (Plot size: 30 ft.)	_				
1				. Hydrophytic	
2				Vegetation	
3				Present? Yes NoX	
4.					
	0	= Total Cover			
Remarks: (Include photo numbers here or on a separate sheet	t.)				
No hydrophytic vegetation found at data point	•				

Sampling Point: DP-DU-Upland

SOIL Upland Sampling Point: DP-DU-

Profile Descri	ption: (Describe to the d	lepth need	ed to document the i	ndicator or	confirm th	ne absence	of indicators.)			
							,			
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
(IIICHES)	Color (moist)	/0	Color (Illoist)		Туре	LUC			Cemains	
0-20	10YR 3/3	100					Loamy Course Sand			
-							-	-		
1- 0.0							21	- I		
Type: C=Con	centration, D=Depletion, F	RM=Reduce	ed Matrix, MS=Masked	d Sand Graii	ns.		Location	: PL=Pore Lining, N	/I=Matrix.	
Hydric Soil Inc	dicators:						Indicators f	for Problematic H	ydric Soils <sup>3</sup> :	:
Histosol (			Polyvalue Below	Surface (S8	) (LRR R,			luck (A10) (LRR K		
Histic Eni	pedon (A2)	-	MLRA 149B)	•	, ,			Prairie Redox (A16		
	' '		,	- (OO) (LDD	D MI DA	( 40D)				
Black His		-	Thin Dark Surface			149B)		flucky Peat or Peat		ι, L, R)
	Sulfide (A4)	-	Loamy Mucky Mir		RR K, L)		Dark S	Surface (S7) (LRR I	K, L, M)	
Stratified	Layers (A5)	_	Loamy Gleyed Ma	atrix (F2)			Polyva	lue Below Surface	(S8) (LRR K	ί, L)
Depleted	Below Dark Surface (A11	)	Depleted Matrix (	F3)			Thin D	ark Surface (S9) (L	RR K, L)	
	k Surface (A12)		X Redox Dark Surfa	•				anganese Masses		KIR)
<del></del>		-						=		
	ıcky Mineral (S1)	-	Depleted Dark Su					ont Floodplain Soils		· ·
Sandy Glo	eyed Matrix (S4)	_	Redox Depressio	ns (F8)			Mesic	Spodic (TA6) ( <b>MLF</b>	kA 144A, 14	5, 149B)
Sandy Re	dox (S5)						Red Pa	arent Material (F21	)	
Stripped I	Matrix (S6)						Very S	hallow Dark Surfac	e (TF12)	
	ace (S7) (LRR R, MLRA	1/0R)						(Explain in Remark		
Daik Suii	ace (57) (LIKIK IK, MILIKA	1430)					Other (	(Explain in Remark	3)	
<sup>3</sup> Indicators of h	nydrophytic vegetation and	d wetland h	ydrology must be pres	ent, unless	disturbed o	r problemati	ic.			
	yer (if observed):									
Type: None										
Depth (inch	nes):						Hydric Soil F	Present? Yes	X	No
5 .										
Remarks:	esent at data point									
140 Hydric 30li3 pi	esent at data point									

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

Project/Site:	Champlain Huds	son Express		City/Coun	nty: <u>Saratoga</u>		Sampling	g Date:	December 16, 2021
Applicant/Owner:	СНА			State:	NY		Sampling	Point:	DP-DV
Investigator(s):	Tristen Peterson	1		Section, To	ownship, Range:	Ballston Sp	<u></u> -		
Landform (hillslope,		Depression			f (concave, convex, r		Concave		Slope (%):1
Subregion (LRR or N		LRR R		Lat: 42.979410°	•	g: 73.846736°			Slope (70)1
• ,	•				TN LUNG.			Not M	
Soil Map Unit Name		erville-Hornell comp					NWI classification:		apped
Are climatic / hydrolo	· ·	•	•			(If no,	explain in Remark	•	
		, or Hydrology				Normal Circum	nstances" present?	, Y	/es X No
Are Vegetation	, Soil	, or Hydrology	natu	rally problematic?	? (If nee	eded, explain a	any answers in Rei	marks.)	
SUMMA	ARY OF FIND	INGS – Attach	ո site map ։	showing sam	pling point loc	ations, tra	ansects, impo	rtant fo	eatures, etc.
Hydrophytic Vege	etation Present?	Yes	<b>X</b> No		Is the Sampled Ar	rea			
Hydric Soil Preser		Yes	X No		within a Wetland?		Yes X	No _	
Wetland Hydrolog		Yes	X No		If yes, optional We	etland Site ID:	DV		
HYDROLOGY									
Wetland Hydrolo						<u>S</u>			um of two required)
<del></del>		e is required; check					Surface Soil Crack		
Surface Water				-Stained Leaves (E	B9)		Drainage Patterns		
X High Water T				c Fauna (B13)			Moss Trim Lines (		<b>~~</b> `
X Saturation (A	-		<del></del>	eposits (B15)	(04)	_	Dry-Season Wate		<i>3</i> 2)
Water Marks			_	gen Sulfide Odor ( ed Rhizospheres (	(C1) on Living Roots (C3)		Crayfish Burrows		I Imagany (CQ)
Sediment De Drift Deposits				nce of Reduced Ira	= ' '	, <u> </u>	Saturation Visible Stunted or Stresse		
Algal Mat or 0			_	It Iron Reduction in		X	Geomorphic Posit		(01)
Iron Deposits	` '			luck Surface (C7)			Shallow Aquitard		
l —	isible on Aerial Im	nagery (B7)	_	(Explain in Remark		X	Microtopographic		94)
	getated Concave S		_		-,		FAC-Neutral Test		,
Field Observation									
Surface Water Pre	esent?	Yes No	X Depth	ı (inches):					
Water Table Prese	ent?	Yes X No	Depth	ı (inches): 6	w	Vetland Hydro	ology Present?	Yes _	X No
Saturation Present		Yes X No	Depth	ı (inches): 3					
(includes capillary			9 (-1 -6 -4	taua taana	2				
Describe Recorde	d Data (stream ga	auge, monitoring w	ell, aeriai photo	os, previous inspe	ections), if available:				
Remarks:									

(5)					
ree Stratum (Plot size: 30 ft.)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
Pinus strobus		No	FACU	Number of Dominant Species That Are OBL, FACW, or FAC:	3 (A)
Quercus bicolor	40	Yes	FACW	11101110 052, 171011, 011710.	(/1)
			TACW	Total Number of Dominant	o (D)
				Species Across All Strata:	3(B)
				Percent of Dominant Species	400 (4/5
				That Are OBL, FACW, or FAC:	(A/E
				Prevalence Index worksheet:	
				Total % Cover of:	Multiply by:
		= Total Cover		OBL species 60	x 1 = 60
pling/Shrub Stratum (Plot size: 15 ft.)				FACW species 60	x 2 = 120
				FAC species 0	
				FACU species 5	
				UPL species 0	x 5 = 0
				Column Totals: 125	(A) <u>200</u> (B
				Prevalence Index = B/A =	: 1.6
				Hydrophytic Vegetation Indica	ators:
				1 - Rapid Test for Hydroph	ytic Vegetation
				X 2 - Dominance Test is >50	
	0	= Total Cover		X 3 - Prevalence Index is ≤3.	
rb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptation data in Remarks or on a	
Typha latifolia	60	Yes	OBL	data in Remarks of one	a soparate sneety
Onoclea sensibilis	20	Yes	FACW	Problematic Hydrophytic V	egetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and we	tland hydrology must
				be present, unless disturbed or	problematic.
				Definitions of Vagatation Strat	to.
				Definitions of Vegetation Stra	
				Tree – Woody plants 3 in. (7.6 c	·
				at breast height (DBH), regardle	ss of neight.
				Sapling/shrub – Woody plants	
				and greater than or equal to 3.2	8 ft (1 m) tall.
0.				Herb – All herbaceous (non-woo	
				size, and woody plants less than	n 3.28 ft tall.
1				Woody vines – All woody vines	greater than 3.28 ft in
2				height.	
	80	= Total Cover			
pody Vine Stratum (Plot size: 30 ft.)					
<del></del>				Hydrophytic	
				Vegetation	X
				Present? Yes	X No
·					

SOIL Sampling Point: DP-DV Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.) Color (moist) Color (moist) (inches) Texture Remarks 0-20 10YR 3/1 70 7.5YR 5/8 Clay <sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix. **Hydric Soil Indicators:** Indicators for Problematic Hydric Soils<sup>3</sup>: Histosol (A1) Polyvalue Below Surface (S8) (LRR R, 2 cm Muck (A10) (LRR K, L, MLRA 149B) Histic Epipedon (A2) MLRA 149B) Coast Prairie Redox (A16) (LRR K, L, R) Thin Dark Surface (S9) (LRR R, MLRA 149B) Black Histic (A3) 5 cm Mucky Peat or Peat (S3) (LRR K, L, R) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F1) (LRR K, L) Dark Surface (S7) (LRR K, L, M) Stratified Layers (A5) Loamy Gleyed Matrix (F2) Polyvalue Below Surface (S8) (LRR K, L) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thin Dark Surface (S9) (LRR K, L) X Redox Dark Surface (F6) Thick Dark Surface (A12) Iron-Manganese Masses (F12) (LRR K, L, R) Depleted Dark Surface (F7) Piedmont Floodplain Soils (F19) (MLRA 149B) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Redox Depressions (F8) Mesic Spodic (TA6) (MLRA 144A, 145, 149B) Sandy Redox (S5) Red Parent Material (F21) Stripped Matrix (S6) Very Shallow Dark Surface (TF12) Dark Surface (S7) (LRR R, MLRA 149B) Other (Explain in Remarks) <sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic. Restrictive Layer (if observed): Type: None Depth (inches): Hydric Soil Present? Yes No Remarks:



Wetland DV- View facing South



Wetland DV- Soils

# **SITE PHOTOGRAPHS**

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

Project/Site:	Champlain Huds	on Express		City/Coun	ity: Sarato	oga	Sampling Date:	December 16, 2021
Applicant/Owner:	СНА			State:	NY		Sampling Point:	DP-DV-Upland
Investigator(s):	Tristen Peterson			Section, To	ownship, Range	e: Ballston Spa	_	
					-	·		Slone (%): 1
Landform (hillslope,		Terrace			(concave, con	-		Slope (%): 1
Subregion (LRR or I	MLRA):	LRR R		Lat: 42.979416	°N	Long: 73.846810°W		Datum: NAD83
Soil Map Unit Name	: MxB - Mosh	erville-Hornell com	plex, undulating			NWI cla	ssification: Not I	Mapped
Are climatic / hydrol	ogic conditions or	the site typical for	this time of year	r? Yes	XN	o (If no, explain	in Remarks.)	
Are Vegetation	, Soil	, or Hydrology	signif	icantly disturbed	? Δ	are "Normal Circumstances	s" present?	Yes X No
Are Vegetation						f needed, explain any ans	wers in Remarks.)	
SUMMA	ARY OF FIND	INGS – Attach	site map s	howing sam	pling point	locations, transec	ts, important	features, etc.
Hydrophytic Vege	etation Present?	Yes	No	Х	Is the Sample	ed Area		
Hydric Soil Prese		_	No		within a Wetl		No No	X
Wetland Hydrolog		_	No		If yes, optiona	al Wetland Site ID:		
HYDROLOGY								
	Indicators					Saconda	Indiantora (minir	of two required)
Wetland Hydrolo			" · · · - h.A					num of two required)
		is required; check		·· · · · · · · · · · · · · · //	20)		Soil Cracks (B6)	
Surface Water				tained Leaves (E	39)		ge Patterns (B10)	
High Water 1 Saturation (A				Fauna (B13) posits (B15)			rim Lines (B16) ason Water Table	(00)
Water Marks	•			posits (B15) en Sulfide Odor (	(C4)		h Burrows (C8)	(C2)
Sediment De				d Rhizospheres o	•		ion Visible on Aeri	al Imageny (CQ)
Drift Deposits				e of Reduced Iro	=	· ·	or Stressed Plant	
Algal Mat or				Iron Reduction in	` '	· <del></del>	rphic Position (D2)	
Iron Deposits	` '			ck Surface (C7)	1 1 mod 5 c , .		Aquitard (D3)	)
l —	isible on Aerial Im	agery (B7)		Explain in Remar	ks)	·	pographic Relief (	D4)
	getated Concave				,		eutral Test (D5)	,
Field Observatio								
Surface Water Pre		Yes No	X Depth	(inches):				
Water Table Pres	ent?	Yes No	X Depth	(inches):		Wetland Hydrology P	resent? Yes	No <u>X</u>
Saturation Presen		Yes No	X Depth	(inches):				
(includes capillary			"ial photo	ious inone	tia) if ovoil	111		
Describe Recorde	d Data (Stream ya	auge, monitoring w	ell, aeriai prioto:	s, previous irispe	ections), ii avaiid	able:		
Remarks: No wetland hydi	rology present a	et data noint						
	ology process	uata point						

Tree Stratum (Plot size: 30 ft. )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
· · · · · · · · · · · · · · · · · · ·	10		FACU	Number of Dominant Species
Pinus strobus     Quercus rubra		Yes		That Are OBL, FACW, or FAC: 0 (A)
			FACU	Total Number of Dominant Species Across All Strata: 5 (B)
3. Fagus grandifolia	10	Yes	FACU	Species Across All Strata: 5(B)
4				Percent of Dominant Species That Are OBL, FACW, or FAC: 0 (A/B)
5				(13)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
	50 :	= Total Cover		OBL species 0 x 1 = 0
Sapling/Shrub Stratum (Plot size: 15 ft.)				FACW species $0$ $x = 0$ FAC species $0$ $x = 0$
1. Picea abies	5	Yes	UPL	FACU species 60 x 4 = 240
2				UPL species 5 x 5 = 25
3				Column Totals: 65 (A) 265 (B)
4				
5				Prevalence Index = B/A = 4.07
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
	5	= Total Cover		2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0 <sup>1</sup>
Herb Stratum (Plot size: 5 ft.)				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
1. Fragaria virginiana	10	Yes	FACU	data in Remarks or on a separate sheet)
2.				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:
				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
6				at breast height (DBH), regardless of height.
7				Sapling/shrub – Woody plants less than 3 in. DBH
				and greater than or equal to 3.28 ft (1 m) tall.
9				Herb – All herbaceous (non-woody) plants, regardless of
10.		-		size, and woody plants less than 3.28 ft tall.
11				Woody vines – All woody vines greater than 3.28 ft in
12				height.
	10	= Total Cover		
Woody Vine Stratum (Plot size: 30 ft.)				
1				Hydrophytic
2				Vegetation
3				Present? Yes NoX
4				
	0	= Total Cove	r	
Remarks: (Include photo numbers here or on a separate sheet.)				

Sampling Point: DP-DV-Upland

SOIL Sampling Point: DP-DV-

pland Profile Description: (Describe to the depth n			he absence	of indicators.)		
Depth Matrix (inches) Color (moist) %	Color (moist)	Features Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
<u> </u>	<u> Color (Molecy</u>				rtomano	
0-20 10YR 4/2 100				Clay Loam		
Type: C=Concentration, D=Depletion, RM=Re	duced Matrix, MS=Masked	Sand Grains.			re Lining, M=Matrix.	
Hydric Soil Indicators:					elematic Hydric Soils <sup>3</sup>	
Histosol (A1)		Surface (S8) (LRR R,			0) (LRR K, L, MLRA 1	
Histic Epipedon (A2) Black Histic (A3)	MLRA 149B)	(S9) (LRR R, MLRA	140B)		Redox (A16) (LRR K, L, eat or Peat (S3) (LRR I	•
Hydrogen Sulfide (A4)		eral (F1) (LRR K, L)	1430)		S7) (LRR K, L, M)	<b>、 ∟,                                   </b>
Stratified Layers (A5)	Loamy Gleyed Ma				ow Surface (S8) ( <b>LRR K</b>	(, L)
Depleted Below Dark Surface (A11)	Depleted Matrix (F				ace (S9) (LRR K, L)	. ,
Thick Dark Surface (A12)	Redox Dark Surfa	ce (F6)		Iron-Manganes	se Masses (F12) (LRR	K, L, R)
Sandy Mucky Mineral (S1)	Depleted Dark Su	rface (F7)		Piedmont Floo	dplain Soils (F19) ( <b>MLF</b>	RA 149B)
Sandy Gleyed Matrix (S4)	Redox Depression	ns (F8)		Mesic Spodic (	TA6) (MLRA 144A, 14	5, 149B)
Sandy Redox (S5)				Red Parent Ma		
Stripped Matrix (S6)					Dark Surface (TF12)	
Dark Surface (S7) (LRR R, MLRA 149B)				Other (Explain	in Remarks)	
311:	- d b do-lo b			:_		
Indicators of hydrophytic vegetation and wetlar Restrictive Layer (if observed):	id nydrology must be pres	ent, uniess disturbed	or problemat	IC.		
Type: None						
Depth (inches):	_			Hydric Soil Present	? Yes	No X
				riyuric 3011 Fresent		NO <u>X</u>
Remarks: No hydric soils present at data point						
, , , , , , , , , , , , , , , , , , , ,						



**Upland DV- View facing South** 



**Upland DV- Soils** 

**SITE PHOTOGRAPHS** 

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

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21
Applicant/Owner: TDI	State: NY Sampling Point: c-cp-F-14 Wet
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42-58-37N	Long: 73-50-50W Datum: WGS84
Soil Map Unit Name: BtB - Broadalbin silt loam, 3 to 8 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 Hydrology significantly distur	
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?  Hydric Soil Present?  Wetland Hydrology Present?  Yes X No  Yes X No	Is the Sampled Area within a Wetland?  If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	il yes, optional Wediana one ib.
Red maple hardwood swamp.	
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) X Water-Stained Leaves (	· ·
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 (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres  Deposits (R2)	
Presence of Reduced In	
Algal Mat or Crust (B4)  Recent Iron Reduction in  This Music Surface (G7)	. , , , ,
Iron Deposits (B5) — Thin Muck Surface (C7)	<del></del>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)  X FAC-Neutral Test (D5)	
Field Observations:	
Surface Water Present? Yes X No Depth (inches).	
Water Table Present? Yes No _X Depth (inches)	
Saturation Present? Yes X No Depth (inches)	E 3 Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks.	

T. 01 1 (DL1)	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Populus deltoides	50	Yes	<u>FAC</u>	Number of Dominant Species
2. Acer rubrum	10	No	<u>FAC</u>	That Are OBL, FACW, or FAC:4 (A)
3. <u>Ulmus americana</u>	5	No	<u>FACW</u>	Total Number of Dominant
4				Species Across All Strata: 5 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 80.0% (A/B)
7				Prevalence Index worksheet:
	65	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species10 x 1 =10
Zanthoxylum americanum	20	Yes	FACU	FACW species 60 x 2 = 120
2. Acer rubrum	20	Yes	FAC	FAC species 85 x 3 = 255
3. Rhamnus cathartica	5	No	FAC	FACU species 20 x 4 = 80
4. Cornus amomum	5	No	FACW	UPL species0 x 5 =0
5				Column Totals: 175 (A) 465 (B)
6.				Prevalence Index = B/A =2.66
7				Hydrophytic Vegetation Indicators:
	50	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
Lysimachia nummularia	30	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Onoclea sensibilis	20	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Carex Iurida	10	No	OBL	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				The disease of budgies will and westered budgets on words
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Trace Manchesta Sin (7.0 cm) as seen in
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12.				
	60	=Total Cover		Herb – 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 height.
2				noight.
2				Hydrophytic
1				Vegetation Present? Yes X No
<b></b>		=Total Cover		rieseitt: res 🔨 NO
Describe the described and the second and the secon		- Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sneet.)			

Sampling Point: C-CP-F-14 Wet

Profile Desc Depth	ription: (Describe t Matrix	o the de	•	i <mark>ment tl</mark> c Featur		ator or c	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-11	10YR 3/1	100			<u></u>		Mucky Loam/Clay	
11_17	10VR 5/2	60	10VR 4/6	40			L camy/Clayey	Prominent redox concentrations
	10YR 5/2	60	10YR 4/6			_m 	Loamy/Clayey	Prominent redox concentrations
1- 0.0							21 11 5	
'Type: C=Co	oncentration, D=Deplo Indicators:	etion, RM	l=Reduced Matrix, N	IS=Mas	ked Sand	d Grains.	Indicators for	L=Pore Lining, M=Matrix. or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo		ce (S8) (	LRR R,		ick (A10) ( <b>LRR K, L, MLRA 149B</b> )
	pipedon (A2)		MLRA 149B)					rairie Redox (A16) (LRR K, L, R)
— Black Hi	` '		Thin Dark Surfa				· —	icky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4) I Layers (A5)		High Chroma S Loamy Mucky I					e Below Surface (S8) ( <b>LRR K, L</b> ) k Surface (S9) ( <b>LRR K, L</b> )
	l Layers (A3) I Below Dark Surface	(A11)	Loamy Gleyed			<b>Κ Κ, ∟</b> )		nganese Masses (F12) ( <b>LRR K, L, R</b> )
	ark Surface (A12)	(Δ11)	Depleted Matrix		1 2)			nt Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su		6)			podic (TA6) (MLRA 144A, 145, 149B)
	leyed Matrix (S4)		Depleted Dark		-			ent Material (F21)
	edox (S5)		Redox Depress					allow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>		- /			xplain in Remarks)
	face (S7)			. ,				,
	<del>, , , , , , , , , , , , , , , , , , , </del>	on and w	etland hydrology mu	st be pr	esent, ur	nless dis	turbed or problematic.	
Restrictive I	_ayer (if observed):							
Depth (ir	nches):						Hydric Soil Preser	nt? Yes X No
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland C-CP-F-14 - View facing east.



Wetland C-CP-F-14 - Soils

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21				
Applicant/Owner: TDI	State: NY Sampling Point: c-cP-F-14 Upl				
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:				
Landform (hillside, terrace, etc.): Hillslope Local	relief (concave, convex, none): Convex Slope %: 5				
Subregion (LRR or MLRA): LRR R Lat: 42-58-37N	Long: 73-50-50W Datum: WGS84				
Soil Map Unit Name: BtB - Broadalbin silt loam, 3 to 8 percent slopes	NWI classification:				
Are climatic / hydrologic conditions on the site typical for this time of year?					
Are Vegetation, Soil, or Hydrology significantly distur					
Are Vegetation, Soil, or Hydrologynaturally problems	atic? (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 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:				
Remarks: (Explain alternative procedures here or in a separate report.)					
Deciduous forest.					
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 (I					
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 of the control of th					
Drift Deposits (B3) Presence of Reduced Iro	<u> </u>				
Algal Mat or Crust (B4)  Recent Iron Reduction in					
Iron Deposits (B5) Thin Muck Surface (C7)					
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar					
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)				
Field Observations:					
Surface Water Present? Yes No _X Depth (inches):					
Water Table Present? Yes No _X Depth (inches):					
Saturation Present? Yes No X Depth (inches):	: Wetland Hydrology Present? Yes No _X				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Remarks:					

Absolute	Dominant	Indicator	
% Cover	Species?	Status	Dominance Test worksheet:
50	Yes	<u>FACU</u>	Number of Dominant Species
25	Yes	<u>FACU</u>	That Are OBL, FACW, or FAC: 2 (A)
5	No	FACU	Total Number of Dominant
			Species Across All Strata: 5 (B)
			Percent of Dominant Species
			That Are OBL, FACW, or FAC: 40.0% (A/B
			Prevalence Index worksheet:
80	=Total Cover		Total % Cover of: Multiply by:
			OBL species0 x 1 =0
25	Yes	FACU	FACW species 10 x 2 = 20
			FAC species 10 x 3 = 30
			FACU species 105 x 4 = 420
			UPL species 0 x 5 = 0
			Column Totals: 125 (A) 470 (B
			Prevalence Index = B/A = 3.76
			Hydrophytic Vegetation Indicators:
25	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
			2 - Dominance Test is >50%
10	Ves	FΔCW	3 - Prevalence Index is ≤3.0 <sup>1</sup>
			4 - Morphological Adaptations <sup>1</sup> (Provide supporting
10	163	<u> </u>	data in Remarks or on a separate sheet)
			Duck laws atia 1 hadroneka tia 1/2 station 1 (Familia)
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
			be present, unless disturbed or problematic.
			Definitions of Vegetation Strata:
			Tree – Woody plants 3 in. (7.6 cm) or more in
	·		diameter at breast height (DBH), regardless of height
	·		Sapling/shrub – Woody plants less than 3 in. DBH
			and greater than or equal to 3.28 ft (1 m) tall.
			Herb – All herbaceous (non-woody) plants, regardles
20	=Total Cover		of size, and woody plants less than 3.28 ft tall.
			Woody vines – All woody vines greater than 3.28 ft i
			height.
			Hydrophytic
			Vegetation
-			Vogetation
			Present? Yes No X
	25 10 10	5 No  80 =Total Cover  25 Yes  25 =Total Cover  10 Yes  10 Yes  20 =Total Cover	5 No FACU  80 =Total Cover  25 Yes FACU  25 =Total Cover  10 Yes FACW 10 Yes FAC  20 =Total Cover

		o the de				itor or co	onfirm the absence of i	ndicators.)
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-13	10YR 2/2	100					Loamy/Clayey	
1Typo: C=C	oncentration, D=Depl	otion DN	A-Poducod Matrix N		kod Sand		2l ocation: DI =	Pore Lining, M=Matrix.
Hydric Soil		elion, Ki	-Reduced Mainx, N	13-IVIAS	keu Sand	Giailis.		Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	co (SS) (I	DDD		(A10) (LRR K, L, MLRA 149B)
	pipedon (A2)		MLRA 149B		CE (36) (I	LKK K,		
				•	) (I DD D	MI DA 1		rie Redox (A16) (LRR K, L, R)
Black Hi	n Sulfide (A4)		Thin Dark Surf				· —	ty Peat or Peat (S3) (LRR K, L, R)
	I Layers (A5)		Loamy Mucky					Below Surface (S8) ( <b>LRR K, L</b> ) Surface (S9) ( <b>LRR K, L</b> )
		. (Δ11)				K K, L)		
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			anese Masses (F12) (LRR K, L, R)
	ark Surface (A12)		Depleted Matri		-0)			Floodplain Soils (F19) (MLRA 149B)
	lucky Mineral (S1)		Redox Dark Su					dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	eleyed Matrix (S4)		Depleted Dark					t Material (F21)
	edox (S5)		Redox Depress		0)			ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	K K, L)			— Other (Exp	lain in Remarks)
— Dark Sui	face (S7)							
<sup>3</sup> Indicators of	f hydronhytic vegetati	ion and w	etland hydrology mu	iet ha nr	recent ur	aloce diet	urbed or problematic.	
	_ayer (if observed):	on and v	retiand hydrology me	ast be pi	Cociii, ui	iicaa diat	dibed of problematic.	
Type:	Rock &	roote						
•								
Depth (ir	nches):	13					Hydric Soil Present?	? Yes No _X
Remarks:								
			-					Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOC	CUMENT	S/nrcs14	2p2_051293.docx)	



**Upland C-CP-F-14 - View facing north.** 



**Upland C-CP-F-14 - Soils** 

### **SITE 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/County: Ballstor	n/Saratoga	Sampling Date: 4/11/2023		
Applicant/Owner: TDI			State: NY	Sampling Point: C-CP-F Wet (PEM)		
Investigator(s): J. Greaves & N. Frazer		Section, To	wnship, Range:	<u> </u>		
Landform (hillside, terrace, etc.): Depression	n Local re	elief (concave, conve	ex. none). Concave	Slope %: 2		
Subregion (LRR or MLRA): LRR R	Lat: 42.979202	•	-73.847727	' Datum: DD		
Soil Map Unit Name: MvA - Mosherville silt lo				PEM1		
Are climatic / hydrologic conditions on the site		Yes x	<del></del>	explain in Remarks.)		
			`	,		
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese			
Are Vegetation, Soil, or Hydrol	<u> </u>		d, explain any answers in	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point loca	tions, transects, im	portant features, etc.		
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea			
Hydric Soil Present?	Yes X No	within a Wetland		No		
Wetland Hydrology Present?	Yes X No	If yes, optional We	etland Site ID: Wetland	C-CP-F		
Remarks: (Explain alternative procedures he	ere or in a separate report.)					
Cattail marsh.						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks			
X Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns (I			
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 (C	>1)	Crayfish Burrows (C8)			
Sediment Deposits (B2)	X Oxidized Rhizospheres or					
Drift Deposits (B3)	Presence of Reduced Iron	<u> </u>				
Algal Mat or Crust (B4)	Recent Iron Reduction in	· · · · · · · · · · · · · · · · · · ·				
Iron Deposits (B5)	Thin Muck Surface (C7)	-1	Shallow Aquitard (D	·		
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (Bi	· ——	s)	X Microtopographic Ro			
<del></del>	8)		TAC-Neutral Test (L	J5)		
Field Observations: Surface Water Present? Yes X	No Denth (inches):	2				
Surface Water Present? Yes X  Water Table Present? Yes X	No Depth (inches): _ No Depth (inches):	10				
Saturation Present? Yes X	No Depth (inches):		d Hydrology Present?	Yes X No		
(includes capillary fringe)			d Hydrology	7		
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
		-				
Remarks:						

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
Acer rubrum	15	Yes	FAC	l.,
<u></u>				Number of Dominant Species That Are OBL, FACW, or FAC: 4 (A)
3.				Total Newsham of Densin and
				Total Number of Dominant Species Across All Strata: 4 (B)
j				Dercent of Deminant Species
3.	·			Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species80 x 1 =80
. Cornus amomum	10	Yes	FACW	FACW species 30 x 2 = 60
				FAC species15 x 3 =45
				FACU species 0 x 4 = 0
				UPL species 0 x 5 = 0
i				Column Totals: 125 (A) 185 (B
i				Prevalence Index = B/A = 1.48
				Hydrophytic Vegetation Indicators:
	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
lerb Stratum (Plot size: 5' )				X 2 - Dominance Test is >50%
. Typha latifolia	55	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Carex stricta	25	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Phragmites australis	10	No	FACW	data in Remarks or on a separate sheet)
Onoclea sensibilis	10	No	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<del></del> 5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
). 				be present, unless disturbed or problematic.
				Definitions of Vegetation Strata:
3				Tree – Woody plants 3 in. (7.6 cm) or more in
)				diameter at breast height (DBH), regardless of height
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2	100	=Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardles of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30' )	100	- Total Cover		
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
		· ——		neight.
				Hydrophytic
				Vegetation Present? Yes X No
·		=Total Cover		rieseitt: ies 🗡 NO
		- Total Cover		

SOIL Sampling Point C-CP-F Wet (PEM)

Profile Descr	iption: (Describe t	o the de				ator or co	onfirm the absence of indicators.)		
Depth	Matrix		Redox	Featur					
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remark	KS	
0-5	10YR 2/2	95	7.5YR 3/4	5	c	_PL_	Loamy/Clayey Distinct redox con	ncentrations	
5-9	7.5YR 3/1	70	7.5YR 3/4	30	<u> </u>	<u>m</u>	Loamy/Clayey Distinct redox con	ncentrations	
9-16	10YR 5/2	65	10YR 4/1	15	d	<u>m</u>	Loamy/Clayey		
			10YR 4/6		c	<u>m</u>	Prominent redox c	oncentrations	
								_	
<sup>1</sup> Type: C=Co	 ncentration, D=Deple	etion, RI	——————————————————————————————————————	S=Masl	ked Sand	d Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Mat	rix.	
Hydric Soil Ir	ndicators:						Indicators for Problematic Hydri	c Soils <sup>3</sup> :	
Histosol (	A1)		Dark Surface (S	S7)			2 cm Muck (A10) (LRR K, L, N	ILRA 149B)	
Histic Epi	pedon (A2)		Polyvalue Belov	w Surfac	ce (S8) (	LRR R,	Coast Prairie Redox (A16) ( <b>LR</b>	R K, L, R)	
Black His	tic (A3)		MLRA 149B)				5 cm Mucky Peat or Peat (S3)	(LRR K, L, R)	
Hydrogen	Sulfide (A4)		Thin Dark Surfa	ce (S9)	(LRR R	, MLRA 1	Polyvalue Below Surface (S8)	(LRR K, L)	
Stratified Layers (A5)  High Chroma Sands (S11) (LRR K, L)  Thin Dark Surface (S9) (LRR K, L)					<b>(, L</b> )				
X Depleted	Below Dark Surface (A11) Loamy Mucky Mineral (F1) (LRR K, L)				Iron-Manganese Masses (F12) (LRR K, L, R)				
Thick Dar	k Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmont Floodplain Soils (F1	9) ( <b>MLRA 149B</b> )	
Mesic Sp	odic (A17)		X Depleted Matrix (F3)				Red Parent Material (F21) (ou	tside MLRA 145)	
(MLRA	A 144A, 145, 149B)		X Redox Dark Surface (F6) Very Shallow Dark Su				Very Shallow Dark Surface (F2	22)	
Sandy Mu	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Explain in Remarks)		
Sandy Gl	eyed Matrix (S4)		X Redox Depress	ions (F	8)				
Sandy Re	edox (S5)		Marl (F10) ( <b>LRF</b>	R K, L)			<sup>3</sup> Indicators of hydrophytic vegetation and		
Stripped I	Matrix (S6)		Red Parent Mat	terial (F	21) <b>(MLF</b>	RA 145)	wetland hydrology must be present,		
Restrictive L	ayer (if observed):						unless disturbed or problema	atic.	
Type:	<b></b> ( c								
Depth (inc	ches):						Hydric Soil Present? Yes X	No	
Remarks:									



Wetland C-CP-F (PEM) - View facing north



Wetland C-CP-F (PEM) - Soils

**SITE 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/County: Ballston	n/Saratoga	Sampling Date: 4/11/2023	
Applicant/Owner: TDI			State: NY	Sampling Point: C-CP-F Upl (PEM)	
Investigator(s): J. Greaves & N. Frazer		Section, To	wnship, Range:	<u> </u>	
Landform (hillside, terrace, etc.): Hillslope	Local re	elief (concave, conve	x, none): Convex	Slope %: 10	
Subregion (LRR or MLRA): LRR R	Lat: 42.978927	•	-73.847349	Datum: DD	
Soil Map Unit Name: Mosherville-Hornell coi			NWI classification:		
Are climatic / hydrologic conditions on the site	-	Yes x	<del></del>	explain in Remarks.)	
, ,	,			,	
Are Vegetation, Soil, or Hydro			nal Circumstances" prese		
Are Vegetation, Soil, or Hydro			d, explain any answers in	•	
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, im	portant features, etc.	
Hydrophytic Vegetation Present?	Yes No _X_	Is the Sampled A	rea		
Hydric Soil Present?	Yes No X	within a Wetland	? Yes	No X	
Wetland Hydrology Present?	Yes No _X	If yes, optional We	tland Site ID: <u>Upland a</u>	djacent to Wetland C-CP-F	
Remarks: (Explain alternative procedures he	ere or in a separate report.)				
Mixed deciduous/white pine forest.					
HYDROLOGY					
			O dam disalestera (n	' ' · · · · · · · · · · · · · · · · · ·	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required)	rad: aback all that apply)			ninimum of two required)	
Surface Water (A1)	Water-Stained Leaves (B	20)	Surface Soil Cracks Drainage Patterns (		
High Water Table (A2)	Aquatic Fauna (B13)	99)	Moss Trim Lines (B16)		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water Table (C2)		
Water Marks (B1)	Hydrogen Sulfide Odor (C	21)	Crayfish Burrows (C8)		
Sediment Deposits (B2)	Oxidized Rhizospheres or	· ·			
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in				
Iron Deposits (B5)	Thin Muck Surface (C7)	,	Shallow Aquitard (D3)		
Inundation Visible on Aerial Imagery (B7		(s)	Microtopographic Relief (D4)		
Sparsely Vegetated Concave Surface (E	·—	,	FAC-Neutral Test (I	` '	
Field Observations:					
Surface Water Present? Yes	No X Depth (inches):				
Water Table Present? Yes	No X Depth (inches):				
Saturation Present? Yes	No Depth (inches):	Wetlan	d Hydrology Present?	Yes No _X_	
(includes capillary fringe)					
Describe Recorded Data (stream gauge, mo	nitoring well, aerial photos, prev	vious inspections), if	available:		
Remarks:					
Remarks.					

Troo Stratum (Plot aiza: 201 )	Absolute	Dominant Species?	Indicator	Dominance Test worksheet
ree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
Pinus strobus	. 45	Yes	FACU	Number of Dominant Species
2. Quercus rubra	30	Yes	FACU	That Are OBL, FACW, or FAC: 2 (A)
3. <u>Fagus grandifolia</u>	10	No	<u>FACU</u>	Total Number of Dominant
l				Species Across All Strata: 9 (B)
5.	-			Percent of Dominant Species
). -	-			That Are OBL, FACW, or FAC: 22.2% (A/B
·				Prevalence Index worksheet:
	85	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15'	)			OBL species 0 x1 = 0
Fagus grandifolia	10	Yes	FACU	FACW species 0 x 2 = 0
2. Acer rubrum	10	Yes	FAC_	FAC species15 x 3 =45
B. Hamamelis virginiana	10	Yes	<u>FACU</u>	FACU species120 x 4 =480
l				UPL species0 x 5 =0
j				Column Totals: 135 (A) 525 (B
i				Prevalence Index = B/A =3.89
		<u> </u>		Hydrophytic Vegetation Indicators:
	30	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5' )				2 - Dominance Test is >50%
. Pinus strobus	5	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Ostrya virginiana	5	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
3. Acer rubrum	5	Yes	FAC	data in Remarks or on a separate sheet)
1. Fagus grandifolia	5	Yes	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
S				be present, unless disturbed or problematic.
7				Definitions of Vegetation Strata:
3				Tree – Woody plants 3 in. (7.6 cm) or more in
).				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardless
	20	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Voody Vine Stratum (Plot size: 30'	)			Woody vines – All woody vines greater than 3.28 ft in
l				height.
2				
3				Hydrophytic Vegetation
ł.		<u> </u>		Present? Yes No X
·		=Total Cover		

SOIL Sampling Point C-CP-F Upl (PEM)

Profile Desc	ription: (Describe to	o the de	oth needed to docu	ument t	he indica	tor or co	onfirm the absence of indicators.)	
Depth	Matrix		Redo	x Featur	es			
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks	;
0-4	10YR 3/3	100					Loamy/Clayey	
4-10	10YR 3/4	100					Loamy/Clayey	
1 <sub>Tymes</sub> C=Ce	oncentration, D=Deple	tion DM			Lod Con	Crains	21 acetion, DI – Dero Lining M-Metri	
Hydric Soil I		elion, Riv	=Reduced Matrix, N	/IS=IVIAS	ked Sand	Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matri. Indicators for Problematic Hydric	
Histosol			Dark Surface (	S7)			2 cm Muck (A10) (LRR K, L, ML	
	ipedon (A2)		Polyvalue Belo	,	ce (S8) (I	LRR R.	Coast Prairie Redox (A16) (LRR	
Black His			MLRA 149B		( - / (	,	5 cm Mucky Peat or Peat (S3) (I	
	n Sulfide (A4)		Thin Dark Surf	ace (S9	) (LRR R	, MLRA 1		•
Stratified	Layers (A5)		High Chroma S	Sands (S	S11) ( <b>LRF</b>	R K, L)	Thin Dark Surface (S9) ( <b>LRR K</b> ,	L)
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) ( <b>LRI</b>	R K, L)	Iron-Manganese Masses (F12) (	(LRR K, L, R)
	rk Surface (A12)		Loamy Gleyed		(F2)		Piedmont Floodplain Soils (F19)	
	oodic (A17)		Depleted Matri				Red Parent Material (F21) (outs	
	A 144A, 145, 149B)		Redox Dark Su	•	,		Very Shallow Dark Surface (F22	(.)
	ucky Mineral (S1)		Depleted Dark				Other (Explain in Remarks)	
	leyed Matrix (S4)		Redox Depress	•	8)		3 Indicators of budrophytic vegete	ation and
	edox (S5) Matrix (S6)		Marl (F10) (LR Red Parent Ma		21) <b>(MI E</b>	οΛ 1 <i>1</i> 5\	<sup>3</sup> Indicators of hydrophytic vegeta wetland hydrology must be pro	
ourpped	Matrix (50)		Ned i alentina	ateriai (i	21) (WILI	(A 140)	unless disturbed or problemat	
Restrictive L	.ayer (if observed):							
Type:	Rock/ro	ots						
Depth (in	iches):	10					Hydric Soil Present? Yes	No <u>X</u>
Remarks:								



Upland C-CP-F (PEM) - View facing south



**Upland C-CP-F (PEM) - Soils** 

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21				
Applicant/Owner: TDI	State: NY Sampling Point: C-CP-E-4 Wet				
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:				
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 2				
Subregion (LRR or MLRA): LRR R Lat: 42-58-33N	Long: 73-52-50W Datum: WGS84				
Soil Map Unit Name: MnB - Manlius-Nassau complex, undulating, rocky	NWI classification: PEM2				
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 disturb	<del></del>				
Are Vegetation , Soil , or Hydrology naturally problema					
SUMMARY OF FINDINGS – Attach site map showing sam					
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area				
Hydric Soil Present? Yes X No	within a Wetland? Yes X No				
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:				
Remarks: (Explain alternative procedures here or in a separate report.) Shallow emergent marsh.					
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) X Water-Stained Leaves (B12)					
X High Water Table (A2)  Aquatic Fauna (B13)  Mad Deposits (B15)	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)  Sediment Deposits (B2)  Oxidized Rhizospheres of	· · · · · · · · · · · · · · · · · · ·				
Drift Deposits (B3)  Presence of Reduced Iro	<u> </u>				
Algal Mat or Crust (B4)  Recent Iron Reduction in					
Iron Deposits (B5)  Thin Muck Surface (C7)	. , , , ,				
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark					
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)				
Field Observations:	<del></del>				
Surface Water Present? Yes X No Depth (inches):	): 0.5				
Water Table Present? Yes X No Depth (inches):					
Saturation Present? Yes X No Depth (inches):	: 2 Wetland Hydrology Present? Yes X No				
(includes capillary fringe)					
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:				
Develop					
Remarks:					

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer rubrum	15	Yes	FAC	Number of Deminant Species
2.				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3. 4.				Total Number of Dominant Species Across All Strata: 2 (B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:100.0%(A/B)
7				Prevalence Index worksheet:
	15	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species 0 x 1 = 0
1				FACW species 80 x 2 = 160
2.				FAC species15 x 3 =45
3.				FACU species0 x 4 =0
4.				UPL species0 x 5 =0
5.				Column Totals: 95 (A) 205 (B)
6.				Prevalence Index = B/A = 2.16
7.				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
1. Impatiens capensis	65	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Phragmites australis	15	No	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)
<ul><li>5.</li><li>6.</li></ul>				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8. 9.				Tree – 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 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. 4.				Vegetation Present? Yes X No
<b></b>		=Total Cover		100 <u>X</u> 100 <u>—</u>
Remarks: (Include photo numbers here or on a separ	ate sheet.)	-		
Tromano. (moidae priote namboro nore er en a copar	ato 01100ti.)			

Sampling Point: C-CP-E-4 Wet

Depth	Matrix	to the de		Featur			onfirm the absence o		
(inches)	Color (moist)	%	Color (moist)	%_	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks
0-13	10YR 2/1	95	10YR 4/6	5	c	m_	Loamy/Clayey	Prominent redox	concentrations
									_
1		<del></del> .					2		
		letion, RN	/I=Reduced Matrix, M	IS=Mas	ked San	d Grains.		PL=Pore Lining, M=N	
Hydric Soil			Dobarduo Dolo	u Curfo	aa (CO) (	LDDD		or Problematic Hyd	
Histosol	oipedon (A2)		Polyvalue Below		ce (58) (	LKK K,		uck (A10) ( <b>LRR K, L</b> , rairie Redox (A16) ( <b>I</b>	•
	istic (A3)		Thin Dark Surfa		) (I RR R	MIRA 1		ucky Peat or Peat (S	· ·
	en Sulfide (A4)		High Chroma S				· —	ue Below Surface (St	
	d Layers (A5)		Loamy Mucky I					rk Surface (S9) ( <b>LRF</b>	
	d Below Dark Surfac	e (A11)	Loamy Gleyed			, ,		nganese Masses (F1	•
	ark Surface (A12)		Depleted Matrix	k (F3)			Piedmo	nt Floodplain Soils (F	19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		X Redox Dark Su	rface (F	<del>-</del> 6)		Mesic S	podic (TA6) ( <b>MLRA</b>	144A, 145, 149B)
Sandy G	Gleyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Par	rent Material (F21)	
	Redox (S5)		Redox Depress	•	8)			allow Dark Surface (	F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K</b> , <b>L</b> )			Other (E	Explain in Remarks)	
Dark Su	rface (S7)								
<sup>3</sup> Indicators o	f hydrophytic vegeta	tion and w	etland hydrology mu	ıst be nı	resent u	nless dist	urbed or problematic.		
	Layer (if observed):		retiand hydrology me	ot bo pi	1000111, 0	nioco dioc	arboa or problemade.		
Type:	Roo								
Depth (ii	nches):	13					Hydric Soil Prese	nt? Yes	No
Remarks:									
	ea. Mostly rock. Diffi	cult to get	soils						
Diotarboa ar	ca. Mostry Took. Dilli	ouit to go	. 30113.						



Wetland C-CP-E-4 - View facing south.



Wetland C-CP-E-4 - Soils

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21
Applicant/Owner: TDI	State: NY Sampling Point: c-cp-E-4 Upi
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 50
Subregion (LRR or MLRA): LRR R Lat: 42-58-34N	Long: 73-50-52W Datum: WGS84
Soil Map Unit Name: MnB - Manlius-Nassau complex, undulating, rocky	NWI classification:
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 distur	
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes No X	Is the Sampled Area
Hydrophytic Vegetation Present?  Yes No X  Hydric Soil Present?  Yes No X	within a Wetland? Yes No _X_
Wetland Hydrology Present?  Yes  No X	If yes, optional Wetland Site ID:
Deciduous forest.	
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 (	——————————————————————————————————————
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 (	
Sediment Deposits (B2)  Oxidized Rhizospheres  Diff Paragita (B2)	
Drift Deposits (B3) Presence of Reduced In	
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	
	<u> </u>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No X Depth (inches)	
Water Table Present? Yes No X Depth (inches)	
Saturation Present? Yes No X Depth (inches)	Wetland Hydrology Present? Yes No _X_
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Tromano.	
1	

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Acer saccharinum	80	Yes	FACW	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
3.				
1		<u> </u>		Total Number of Dominant Species Across All Strata: 3 (B)
5.				``
6				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B)
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. Fraxinus alb	10	Yes		FACW species 80 x 2 = 160
				FAC species 0 x 3 = 0
3				FACU species 5 x 4 = 20
1				UPL species 30 x 5 = 150
				Column Totals: 115 (A) 330 (B)
6				Prevalence Index = B/A = 2.87
7		· ——		Hydrophytic Vegetation Indicators:
1.	10	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		- Total Cover		2 - Dominance Test is >50%
	25	Vaa	LIDI	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Solidago nemoralis     Achilles millefeliums		Yes	UPL	
2. Achillea millefolium	5	No No	FACU	4 - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)
3. <u>Chelidonium majus</u>	5	No No	UPL	
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		<u> </u>		and greater than or equal to 3.28 ft (1 m) tall.
12	-			Herb – 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:30')				Woody vines – All woody vines greater than 3.28 ft in
1				height.
2				Hydrophytic
3.				Vegetation
4				Present?
		=Total Cover		
Remarks: (Include photo numbers here or on a sepa	rate sheet.)			

Sampling Point: C-CP-E-4 Upl

		o the de				itor or co	onfirm the absence of i	ndicators.)
Depth	Matrix			x Featur		. 2		
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 2/1	100					Loamy/Clayey	
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RN	/I=Reduced Matrix, N	/IS=Mas	ked Sand	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) (	LRR R,	2 cm Muck	(A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	pipedon (A2)		MLRA 149B	)			Coast Prai	rie Redox (A16) ( <b>LRR K, L, R</b> )
Black Hi			Thin Dark Surf	ace (S9)	) (LRR R	, MLRA 1		xy Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S				· —	Below Surface (S8) ( <b>LRR K, L</b> )
	Layers (A5)		Loamy Mucky					Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	(A11)	Loamy Gleyed			,,		anese Masses (F12) (LRR K, L, R)
	ark Surface (A12)	(,,,,	Depleted Matri		. –/			Floodplain Soils (F19) ( <b>MLRA 149B</b> )
	lucky Mineral (S1)		Redox Dark Su		6)			dic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
	ileyed Matrix (S4)		Depleted Dark					t Material (F21)
	edox (S5)		Redox Depress					ow Dark Surface (F22)
	Matrix (S6)		Marl (F10) (LR	,	0)			plain in Remarks)
			Wall (F10) ( <b>LK</b>	K K, L)			Other (Exp	nam m Nemarks)
— Dark Sui	face (S7)							
<sup>3</sup> Indicators of	f hydrophytic yogotati	ion and w	otland hydrology mu	iet ho pr	rocont ur	aloce diet	urbed or problematic.	
	_ayer (if observed):	on and v	retiand hydrology mit	ust be bi	esent, ui	iless dist	urbed or problematic.	
	-ayer (ii observed). Roc	l <sub>e</sub>						
Type:								
Depth (ir	nches):	10					Hydric Soil Present	? Yes No <u>X</u>
Remarks:								. =:
	m is revised from No 2015 Errata. (http://w							Field Indicators of Hydric Soils,
version 7.0,	2015 Effata. (fittp://w	ww.iiics.	usua.gov/internet/F	3E_DOC	JOINENI	3/11105 14.	2p2_051295.d0cx)	



**Upland C-CP-E-4 - View facing north.** 



**Upland C-CP-E-4 - Soils** 

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21
Applicant/Owner: TDI	State: NY Sampling Point: c-CP-D-5 We
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): Linear depression Local	relief (concave, convex, none): Concave Slope %: 20
Subregion (LRR or MLRA): LRR R Lat: 42-58-06N	Long: 73-51-01W Datum: WGS84
Soil Map Unit Name: MvB - Mosherville silt loam, 3 to 8 percent slopes	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 Hydrologysignificantly disturb	
Are Vegetation, Soil, or Hydrologynaturally problems	
<b>SUMMARY OF FINDINGS – Attach site map showing sam</b>	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.)	
Shallow emergent marsh.	
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 (E	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 (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Drift Deposits (B3) Presence of Reduced Iro	
Algal Mat or Crust (B4)  Recent Iron Reduction in This Much Curfus (O7)	. , , ,
Iron Deposits (B5)  — Thin Muck Surface (C7)  — Other (Explain in Borner)	<del></del>
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remark Sparsely Vegetated Concave Surface (B8)	-ks) 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):	
Water Table Present?  Yes X  No Depth (inches):  Saturation Present?  Yes X  No Depth (inches):	
(includes capillary fringe)	Wettand Hydrology Fresent: 1es _X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	
	, ,
Remarks:	
An adjacent upland data point was not taken because it consists of railroad	d embankment/ballast.

	T. 01 1 (DL1)	Absolute	Dominant	Indicator	
Number of London Across All Stratum   FAC:   A   (A)   Total Number of Dominant Species   That Are OBL, FACW, or FAC:   A   (A)   Total Number of Dominant Species Across All Stratum   5   (B)   Percent of Dominant Species   That Are OBL, FACW, or FAC:   B   B   OW   (A/B)   Prevalence Index worksheet:   Total % Cover of:   Multiply by:   OBL species   B   D   X   1   B   OBL   Species   B   D   X   1   B   OBL   Species   B   D   X   1   B   OBL   Species   B   D   X   1   B   OBL   Species   B   D   D   Species   D   D   Species   D   D   D   Species   D   D   D   D   D   D   D   D   D	Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
	1. Acer rubrum 2.	8	Yes	FAC	· ·
Percent of Dominant Species   That Are OBL, FACW, or FAC:   80.0%   (A/B)	3.				Total Number of Dominant
	4				
That Are OBL, FACW, or FAC: 80.0% (A/B)	5				Percent of Dominant Species
Sapling/Shrub Stratum (Plot size: 15' )   10    Yes	6.				· ·
Sapling/Shrub Stratum   (Plot size: 15" )   10   Yes   FACW   F	7				Prevalence Index worksheet:
1.		8	=Total Cover		Total % Cover of: Multiply by:
2. Lonicera morrowii   10   Yes   FACU   FAC species   13   x 3 =   39     3. Rhamnus cathartica   5   Yes   FAC   FACU	Sapling/Shrub Stratum (Plot size:15')				OBL species80 x 1 =80
Section   Sect	1. Cornus amomum	10	Yes	FACW	FACW species 25 x 2 = 50
UPL species   0	2. Lonicera morrowii	10	Yes	FACU	FAC species13 x 3 =39
Column Totals:   128   (A)   209   (B)	3. Rhamnus cathartica	5	Yes	FAC	FACU species 10 x 4 = 40
Prevalence Index = B/A = 1.63    Prevalence Index = B/A = 1.63     A - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Prevalence Index is ≤ 3.0     Prevalence Index = B/A = 1.63     A - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Prevalence Index is ≤ 3.0     Prevalence Index = B/A = 1.63     A - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)     Problemat	4.				UPL species 0 x 5 = 0
Prevalence Index = B/A = 1.63    Prevalence Index = B/A = 1.63     A - Morphological Adaptations (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Perpoide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Perpoide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetation (Provide supporting data in Remarks or on a separate sheet)     Problematic Hydrophytic Vegetatio	5.				Column Totals: 128 (A) 209 (B)
Herb Stratum (Plot size:	6.				Prevalence Index = B/A = 1.63
25   =Total Cover   1 - Rapid Test for Hydrophytic Vegetation   X 2 - Dominance Test is >50%   X 3 - Prevalence Index is ≤3.01   X 2 - Dominance Test is >50%   X 3 - Prevalence Index is ≤3.01   X 3 - Prevale	7.				Hydrophytic Vegetation Indicators:
1. Typha latifolia 60 Yes OBL X 3 - Prevalence Index is ≤3.0¹ 2. Lythrum salicaria 15 No OBL data in Remarks or on a separate sheet) 3. Bidens frondosa 10 No FACW data in Remarks or on a separate sheet) 4. Phalaris arundinacea 5 No OBL 1-Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  7. Definitions of Vegetation Strata:  8. Definitions of Vegetation Strata:  Tree - Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub - Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Woody Vine Stratum (Plot size: 30')  1. Woody Vine Stratum (Plot size: 30')  4. Hydrophytic Vegetation Present? Yes X No		25	=Total Cover		
1. Typha latifolia 60 Yes OBL X 3 - Prevalence Index is ≤3.0¹ 2. Lythrum salicaria 15 No OBL data in Remarks or on a separate sheet) 3. Bidens frondosa 10 No FACW data in Remarks or on a separate sheet) 4. Phalaris arundinacea 5 No OBL 1-Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  7. Definitions of Vegetation Strata:  8. Definitions of Vegetation Strata:  Tree — Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub — Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  4. Hydrophytic Vegetation Present? Yes X No	Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
2. Lythrum salicaria 3. Bidens frondosa 10 No FACW 4. Phalaris arundinacea 5 No FACW 5 Epilobium coloratum 5 No OBL 6. Epilobium coloratum 5 No OBL 6. Epilobium coloratum 6 Definitions of Vegetation Strata: 7. Definitions of Vegetation Strata: 8. Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 95 and greater than or equal to 3.28 ft (1 m) tall. 112. Sapling/shrub – Woody plants less than 3.28 ft in height. 12. Woody Vine Stratum (Plot size: 30' ) 1. Hydrophytic Vegetation 15 No OBL 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 10. Sapling/shrub – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. 11. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. 11. Woody Vine Stratum (Plot size: 30' ) 11. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft in height. 12. Hydrophytic Vegetation 13. Hydrophytic Vegetation 14. Woody Vines Trouble Stratum (Plot Size: 30' ) 15. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 16. Provide supporting data in Remarks or on a separate sheet) 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. 16. Provide su		60	Yes	OBL	I—
data in Remarks or on a separate sheet)  A. Phalaris arundinacea  5 No FACW Problematic Hydrophytic Vegetation¹ (Explain)  5 No OBL  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody vines greater than 3.28 ft in height.  Woody Vine Stratum (Plot size: 30')  1. Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No   Trea – Woody Vines – X No  ### Woody Vines — All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No  #### Woody Vines — Yes X No		15	· ·		
4. Phalaris arundinacea 5 No FACW Problematic Hydrophytic Vegetation¹ (Explain) 5 No OBL  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30' ) 1. Woody Vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No					
5 No OBL  1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  7. Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  1. Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No					Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Vegetation Strata:  Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30' )  Woody vines – All woody vines greater than 3.28 ft in height.  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No					
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30' )  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No	6				
Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:	7				Definitions of Vegetation Strata:
diameter at breast height (DBH), regardless of height.  Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30')  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No  =Total Cover	8				Tree – Woody plants 3 in. (7.6 cm) or more in
Sapling/shrub — woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb — All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:	9				
and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size: 30' )  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes X No	10				Sapling/shrub – Woody plants less than 3 in. DBH
Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody Vine Stratum (Plot size:)  1  Woody vines – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation Present? Yes _X _ No	11				
95   =Total Cover   of size, and woody plants less than 3.28 ft tall.					Herb – All herbaceous (non-woody) plants regardless
1. height.  Hydrophytic Vegetation Present? Yes X No		95	=Total Cover		
height.     height.	Woody Vine Stratum (Plot size:30')				Woody vines - All woody vines greater than 3.28 ft in
2	1.				
Hydrophytic Vegetation  4=Total Cover	2				
4=Total Cover	3.				
=Total Cover	1				~
Remarks: (Include photo numbers here or on a separate sheet.)			=Total Cover		
	Remarks: (Include photo numbers here or on a sepa	ate sheet )	•		
	Tromante: (maidae priote nambore nore er en a separ	ato onoot.)			

Sampling Point: C-CP-D-5 Wet

Profile Desc Depth	ription: (Describe t Matrix	o the de		<b>ument t</b> l x Featur		tor or co	nfirm the absence of	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR 2/1	95	7.5YR 3/4	5	С	pl	Sandy	Prominent redox concentrations	
5-14	10YR 4/1	90	10Y 4/1	5	d	m	Sandy		
			10YR 3/6	5	С			Prominent redox concentrations	
-									
¹Type: C=Co	oncentration, D=Depl	etion, RN	 1=Reduced Matrix, M	MS=Mas	ked Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil I	Indicators:						Indicators for	or Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	2 cm Mu	ick (A10) ( <b>LRR K, L, MLRA 149B</b> )	
Histic Ep	pipedon (A2)		MLRA 149B	)			Coast Pr	rairie Redox (A16) ( <b>LRR K, L, R</b> )	
Black His	stic (A3)		Thin Dark Surfa	ace (S9	) (LRR R	, MLRA 1	<b>49B</b> ) 5 cm Mu	icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )	
Hydroge	n Sulfide (A4)		High Chroma S	Sands (S	611) ( <b>LRI</b>	R K, L)	Polyvalu	e Below Surface (S8) ( <b>LRR K, L</b> )	
Stratified	l Layers (A5)		Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Thin Dar	k Surface (S9) ( <b>LRR K, L</b> )	
 Depleted	l Below Dark Surface	(A11)	Loamy Gleyed	Matrix (	F2)		Iron-Man	nganese Masses (F12) ( <b>LRR K, L, R</b> )	
Thick Da	ark Surface (A12)		Depleted Matri	x (F3)			Piedmon	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )	
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	<del>-</del> 6)		Mesic Sp	podic (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 Depress	sions (F	8)		Very Shallow Dark Surface (F22)		
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	RK, L)			Other (Explain in Remarks)		
Dark Sur	face (S7)						<u>—</u>		
	f hydrophytic vegetati	on and w	vetland hydrology mu	ıst be pı	resent, ui	nless distu	urbed or problematic.		
	_ayer (if observed):								
Type: _	Roc	k							
Depth (ir	nches):	14					Hydric Soil Preser	nt? Yes No	
	m is revised from No 2015 Errata. (http://w		-					CS Field Indicators of Hydric Soils,	
VC131011 7.0,	2010 Enata. (http://w	ww.iii03.	usua.gov/internet/1 (	JL_DO(	JOIVILIVI	0/11103142	.pz_001200.d00x)		



Wetland C-CP-D-5 - View facing south.



Wetland C-CP-D-5 - Soils

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21
Applicant/Owner: TDI	State: NY Sampling Point: C-CP-D-10 Wet
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): Depression Local	relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 42-58-13N	Long: 73-50-58W Datum: WGS84
Soil Map Unit Name: MnB - Manlius-Nassau complex, undulating, rocky	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 Hydrology significantly disturl	<del></del>
Are Vegetation , Soil , or Hydrology naturally problema	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?  Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate report.) Red maple hardwood swamp.	
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) X Water-Stained Leaves (B12)	
X High Water Table (A2) Aquatic Fauna (B13)  Mad Deposits (B15)	Moss Trim Lines (B16)
X Saturation (A3) — Marl Deposits (B15) Water Marks (B1) Hydrogen Sulfide Odor (	C1) Dry-Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2)  Sediment Deposits (B2)  Oxidized Rhizospheres of	· · · · · · · · · · · · · · · · · · ·
Drift Deposits (B3)  Presence of Reduced Iro	— · · · —
Algal Mat or Crust (B4)  Recent Iron Reduction in	
Iron Deposits (B5)  Thin Muck Surface (C7)	. , , , ,
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remark	<del></del>
X Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	<del>_</del>
Surface Water Present? Yes X No Depth (inches):	: 1
Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches):	:0 Wetland Hydrology Present? YesX No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Dominance Test worksheet:
1. Fraxinus pennsylvanica	60	Yes	FACW	Number of Dominant Species
2. Acer rubrum	20	Yes	<u>FAC</u>	That Are OBL, FACW, or FAC:4 (A)
3. Rhamnus cathartica	15	No	<u>FAC</u>	Total Number of Dominant
4				Species Across All Strata: 5 (B)
5				Percent of Dominant Species
6				That Are OBL, FACW, or FAC: 80.0% (A/B)
7				Prevalence Index worksheet:
	95	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species10 x 1 =10
Lonicera morrowii	25	Yes	FACU	FACW species 105 x 2 = 210
2. Rhamnus cathartica	25	Yes	FAC	FAC species60 x 3 =180
3.				FACU species 25 x 4 = 100
4				UPL species0 x 5 =0
5				Column Totals: 200 (A) 500 (B)
6.				Prevalence Index = B/A =2.50
7				Hydrophytic Vegetation Indicators:
	50	=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. Carex stricta	10	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Solidago gigantea	5	No	FACW	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				
6.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				
9.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
12	 55	=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' )		rotal Gover		
· · · · · · · · · · · · · · · · · · ·				Woody vines – All woody vines greater than 3.28 ft in height.
2				neight.
				Hydrophytic
3.				Vegetation Present? Yes X No
4				Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separate or	ate sheet.)			

Sampling Point: C-CP-D-10 We

Depth	cription: (Describe t Matrix	o the de		ı <b>ment t</b> l c Featur		ator or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 2/1	100			<del></del>		Mucky Sand	
7-13	10VR 3/1		10VR 4/6	45				Prominent redox concentrations
7-13	10YR 3/1		10YR 4/6				Loamy/Clayey	Prominent redox concentrations
¹Type: C=C	oncentration, D=Depl	etion, RM	 I=Reduced Matrix, M	 IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: F	PL=Pore Lining, M=Matrix.
Hydric Soil			,					or Problematic Hydric Soils <sup>3</sup> :
Black Hi Hydroge Stratified Depleted Thick Da X Sandy M Sandy G Sandy F Stripped Dark Su	pipedon (A2) stic (A3) In Sulfide (A4) Id Layers (A5) Id Below Dark Surface In Surface (A12) Id Layers (A12) Id Layers (A14) Id Layers (A15) Id Layers (A16) Id Layers (A5) In Layers (A5)		Polyvalue Belo MLRA 149B Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matrix X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LRI	on the state of th	(LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	, MLRA 1 R K, L) R K, L)	Coast P 5 cm Mu Polyvalu Thin Da Iron-Mai Piedmoi Mesic S Red Par Very Sh Other (E	ack (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) acky Peat or Peat (S3) (LRR K, L, R) acky Peat or Peat (S8) (LRR K, L) rk Surface (S9) (LRR K, L) rk Surface (S9) (LRR K, L) rnganese Masses (F12) (LRR K, L, R) rh Floodplain Soils (F19) (MLRA 149B) podic (TA6) (MLRA 144A, 145, 149B) rent Material (F21) allow Dark Surface (F22) explain in Remarks)
	f hydrophytic vegetati L <b>ayer (if observed):</b>	on and w	etland hydrology mu	ist be pi	esent, ur	nless dist	urbed or problematic.	
Type:	Layer (II observed): Roc	k						
Depth (i		13					Hydric Soil Prese	nt? Yes X No
	m is revised from No 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland C-CP-D-10 - View facing west.



Wetland C-CP-D-10 - Soils

# **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21
Applicant/Owner: TDI	 State: NY Sampling Point: c-cP-D-10 Սթ
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:
	relief (concave, convex, none): Convex Slope %: 45
Subregion (LRR or MLRA): LRR R Lat: 42-58-13N	Long: 73-50-58W Datum: WGS84
Soil Map Unit Name: MnB - Manlius-Nassau complex, undulating, rocky	NWI classification:
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 distur	· · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
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:
Successional shrubland on a soil berm.	
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 (I	<del></del>
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 (	
Sediment Deposits (B2)  Oxidized Rhizospheres of the control of th	
Presence of Reduced Ir	
Algal Mat or Crust (B4)  — Recent Iron Reduction in	· / — · · /
Iron Deposits (B5) — Thin Muck Surface (C7)	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remar	<u> </u>
Sparsely Vegetated Concave Surface (B8)	FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _X Depth (inches):	
Water Table Present? Yes No _X Depth (inches):	
Saturation Present? Yes No _x Depth (inches):	: Wetland Hydrology Present? Yes No _X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	evious inspections), if available:
Remarks:	
Remarks.	

	Absolute	Dominant	Indicator		
ree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:	
· <u></u>				Number of Dominant Species	
				That Are OBL, FACW, or FAC:1 (A)	
				Total Number of Dominant	
				Species Across All Strata: 3 (B)	
				Percent of Dominant Species That Are OBL, FACW, or FAC: 33.3% (A/B	
				Prevalence Index worksheet:	
		=Total Cover			
and the or (Ohmah, Ohmah, one (Dhah airean an A5)		- Total Cover			
apling/Shrub Stratum (Plot size: 15' )				OBL species 0 x1 = 0	
Lonicera morrowii	60	Yes	<u>FACU</u>	FACW species 0 x 2 = 0	
Rhamnus cathartica	10	No	<u>FAC</u>	FAC species 30 x 3 = 90	
				FACU species 85 x 4 = 340	
				UPL species15 x 5 =75	
				Column Totals: 130 (A) 505 (B	
· <u> </u>				Prevalence Index = B/A =3.88	
				Hydrophytic Vegetation Indicators:	
	70	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation	
erb Stratum (Plot size: 5' )		•		2 - Dominance Test is >50%	
Equisetum arvense	20	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
Poa pratensis	20	Yes	FACU	4 - Morphological Adaptations <sup>1</sup> (Provide supporting	
	10	No	UPL	data in Remarks or on a separate sheet)	
	-			Buchland to the decide to Manager 1 (Familia)	
Verbascum thapsus	5	No No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Rubus allegheniensis	5	No	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must	
·				be present, unless disturbed or problematic.	
·				Definitions of Vegetation Strata:	
· <del></del>				Tree – Woody plants 3 in. (7.6 cm) or more in	
				diameter at breast height (DBH), regardless of height	
)				Sapling/shrub – Woody plants less than 3 in. DBH	
1				and greater than or equal to 3.28 ft (1 m) tall.	
2.				Herb – All herbaceous (non-woody) plants, regardles	
	60	=Total Cover		of size, and woody plants less than 3.28 ft tall.	
oody Vine Stratum (Plot size: 30' )		•			
				<b>Woody vines</b> – All woody vines greater than 3.28 ft i height.	
				Hydrophytic Vegetation Present? Yes No _X	
		=Total Cover			

(inches)	Matrix		Redox	(Featur	es			
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-8	10YR 2/2	100					Loamy/Clayey	
							<del>, , , ,</del> _	
							_	
	oncentration, D=Deple	tion, RM	I=Reduced Matrix, M	IS=Masl	ked Sand	Grains.		=Pore Lining, M=Matrix.
Hydric Soil I								Problematic Hydric Soils <sup>3</sup> :
Histosol (	· ,		Polyvalue Belo		ce (S8) ( <b>L</b>	RR R,		k (A10) ( <b>LRR K, L, MLRA 149B</b> )
	ipedon (A2)		MLRA 149B					iirie Redox (A16) ( <b>LRR K, L, R</b> )
Black His	,		Thin Dark Surfa		-			ky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		High Chroma S					Below Surface (S8) (LRR K, L)
	Layers (A5)	(444)	Loamy Mucky I			(K, L)		Surface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			ganese Masses (F12) (LRR K, L, R
	rk Surface (A12) lucky Mineral (S1)		Depleted Matrix Redox Dark Su		·6)			Floodplain Soils (F19) ( <b>MLRA 149</b> odic (TA6) ( <b>MLRA 144A, 145, 149</b>
	leyed Matrix (S4)		Depleted Dark		-			nt Material (F21)
	edox (S5)		Redox Depress					low Dark Surface (F22)
	Matrix (S6)		Marl (F10) ( <b>LR</b>		3)			plain in Remarks)
Stripped				, =,				, , , , , , , , , , , , , , , , , , , ,
	face (S7)							
Dark Sur		on and w	vetland hydrology mu	st be pr	esent, unl	ess distu	rbed or problematic.	
Dark Sur	face (S7)	on and w	etland hydrology mu	st be pr	esent, unl	ess distu	rbed or problematic.	
Dark Sur	face (S7) hydrophytic vegetatio		retland hydrology mu	st be pr	esent, unl	ess distu	rbed or problematic.	
Dark Sur Indicators of Restrictive L Type:	face (S7) hydrophytic vegetation ayer (if observed): Rock	(	retland hydrology mu	st be pr	esent, unl	ess distu	·	? Yes No X
Dark Sur Indicators of Restrictive L Type: Depth (in	face (S7) hydrophytic vegetation ayer (if observed): Rock		retland hydrology mu	st be pr	esent, unl	ess distu	rbed or problematic.  Hydric Soil Present	? Yes No_X_
Dark Sur  Blindicators of  Restrictive L  Type:  Depth (in  Remarks:	face (S7) hydrophytic vegetation ayer (if observed): Rock aches):	8		·			Hydric Soil Present	
Dark Sur  Indicators of  Restrictive L  Type:  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	? Yes No _X_
Dark Sur  Indicators of  Restrictive L  Type:  Depth (in  Remarks:  This data forr	face (S7) hydrophytic vegetation ayer (if observed): Rock aches):	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  British Dark Sur  British Dark Sur  British Dark Sur  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  British Dark Sur  British Dark Sur  British Dark Sur  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  Bark Sur  Indicators of  Restrictive L  Type:  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  British Dark Sur  British Dark Sur  British Dark Sur  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  Bark Sur  Indicators of  Restrictive L  Type:  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  British Dark Sur  British Dark Sur  British Dark Sur  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  British Dark Sur  British Dark Sur  British Dark Sur  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  Indicators of  Restrictive L  Type:  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  Indicators of  Restrictive L  Type:  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	
Dark Sur  Indicators of  Restrictive L  Type:  Depth (in  Remarks:  This data forr	face (S7)  hydrophytic vegetation  ayer (if observed):  Rock  aches):  m is revised from North	8 thcentral	and Northeast Regi	onal Su	pplement	Version	Hydric Soil Present	



**Upland C-CP-D-10 - View facing northeast.** 



Upland C-CP-D-10 - Soils

### **SITE PHOTOGRAPHS**

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21
Applicant/Owner: TDI	State: NY Sampling Point: c-cp-c-7 wet
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:
	relief (concave, convex, none): Concave Slope %: 25
Subregion (LRR or MLRA): LRR R Lat: 42-58-03N	Long: 73-51-02W Datum: WGS84
Soil Map Unit Name: Mosherville silt loam, 3 to 8 percent slopes	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 Hydrology significantly distur	
Are Vegetation, Soil, or Hydrology naturally problems	
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
Hydric Soil Present? Yes X No	within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Shallow emergent marsh.	
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 (I	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 (	· · · · · · · · · · · · · · · · · · ·
Sediment Deposits (B2)  X Oxidized Rhizospheres of Reduced by Preserves of Red	
Drift Deposits (B3) Presence of Reduced Iron Algal Mat or Crust (B4) Recent Iron Reduction ir	<u> </u>
Algal Mat or Crust (B4)  Iron Deposits (B5)  Recent Iron Reduction in Thin Muck Surface (C7)	·
Inundation Visible on Aerial Imagery (B7)  Other (Explain in Remar	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
<del></del>	X 1/10-Neutral rest (B5)
Field Observations:	
Surface Water Present? Yes X No Depth (inches): Water Table Present? Yes X No Depth (inches):	
Saturation Present? Yes X No Depth (inches): (includes capillary fringe)	: Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	L
Describe Resorded Bata (stream gauge, monitoring well, dental prictos, pre	winds inspections), it available.
Remarks:	
Did not collect an upland data point because its just railroad embankment/k	ballast.

Tree Stratum (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1				Number of Dominant Species
2.				That Are OBL, FACW, or FAC:(A)
3. 4.		<u> </u>		Total Number of Dominant Species Across All Strata:(B)
5 6				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
7.				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:)				OBL species90 x 1 =90
1. Rhamnus cathartica	3	No	FAC	FACW species 10 x 2 = 20
2.				FAC species 3 x 3 = 9
3.				FACU species0 x 4 =0
4.				UPL species0 x 5 =0
5.				Column Totals: 103 (A) 119 (B)
6.				Prevalence Index = B/A = 1.16
7.				Hydrophytic Vegetation Indicators:
	3	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
1. Typha latifolia	60	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
Persicaria sagittata	20	Yes	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Phragmites australis	10	No	FACW	data in Remarks or on a separate sheet)
4. Carex vulpinoidea	10	No	OBL	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. 9.				<b>Tree</b> – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
10.				
11.				Sapling/shrub – 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.
Woody Vine Stratum (Plot size: 30' )		•		
				Woody vines – All woody vines greater than 3.28 ft in height.
2				
				Hydrophytic
				Vegetation No. No.
4.		T		Present? Yes X No
		=Total Cover		
Remarks: (Include photo numbers here or on a separ	ate sheet.)			

Sampling Point: C-CP-C-7 Wet

		to the de				itor or co	onfirm the absence o	f indicators.)
Depth	Matrix			K Featur		. 2	<b>-</b> .	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-11	10YR 2/1	92	7.5YR 3/4	_12	c	pl	Sandy	Prominent redox concentrations
								<del></del>
								_
								_
								_
1Type: C=C	oncentration, D=Depl	etion RN	M-Reduced Matrix M	 2cM-21	ked Sand		<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I		etion, ixiv	i-iteduced Matrix, iv	IO-IVIAS	Keu Gand	Oranis.		or Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Belo	w Surfa	ce (S8) (I	LRR R.		ick (A10) (LRR K, L, MLRA 149B)
	oipedon (A2)		MLRA 149B		00 (00) (.			rairie Redox (A16) ( <b>LRR K, L, R</b> )
Black His			Thin Dark Surfa		(LRR R	. MLRA 1		icky Peat or Peat (S3) ( <b>LRR K, L, R</b> )
	n Sulfide (A4)		High Chroma S					e Below Surface (S8) (LRR K, L)
	Layers (A5)		Loamy Mucky					rk Surface (S9) ( <b>LRR K, L</b> )
	Below Dark Surface	e (A11)	Loamy Gleyed			,		nganese Masses (F12) ( <b>LRR K, L, R</b> )
Thick Da	rk Surface (A12)		Depleted Matri	x (F3)			—— Piedmor	nt Floodplain Soils (F19) ( <b>MLRA 149B</b> )
Sandy M	lucky Mineral (S1)		Redox Dark Su	ırface (F	6)		Mesic S	podic (TA6) ( <b>MLRA 144A, 145, 149B</b> )
Sandy G	leyed Matrix (S4)		Depleted Dark	Surface	e (F7)		Red Par	ent Material (F21)
X Sandy R	edox (S5)		Redox Depress	sions (F	8)		Very Sha	allow Dark Surface (F22)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R</b> K, L)			Other (E	xplain in Remarks)
Dark Sur	face (S7)							
			vetland hydrology mu	ıst be pı	resent, ur	nless dist	urbed or problematic.	
	_ayer (if observed):							
Type: _	Roo	k						
Depth (ir	nches):	11					Hydric Soil Presei	nt? Yes X No
Remarks: This data for	m is revised from No	rthcentra	I and Northeast Regi	onal Su	pplemen	t Version	2.0 to include the NR0	CS Field Indicators of Hydric Soils,
Version 7.0,	2015 Errata. (http://w	ww.nrcs.	usda.gov/Internet/FS	SE_DOO	CUMENT	S/nrcs142	2p2_051293.docx)	



Wetland C-CP-C-7 - View facing south.



Wetland C-CP-C-7 - Soils

# **SITE PHOTOGRAPHS**



**Upland C-CP-C-7 - View facing south.** 

SITE 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/County: Ballstor	n Spa/ Saratoga	Sampling Date: 1/18/23
Applicant/Owner: TDI			State: NY	Sampling Point: MH-A-16 wet
Investigator(s): C. Einstein & N. Frazer		Section, To	wnship, Range:	<u> </u>
Landform (hillside, terrace, etc.): depression	n Local re	elief (concave, conve	x, none): concave	Slope %: 0
Subregion (LRR or MLRA): LRR R	Lat: 42-58-3.23N		73-51-10.36W	' Datum:
Soil Map Unit Name: Mosherville silt loam (M			NWI classification:	PEM
		Vac v		
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)
Are Vegetation, Soil, or Hydrol			nal Circumstances" prese	
Are Vegetation, Soil, or Hydrol	' <u></u>		d, explain any answers in	,
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locat	tions, transects, im	portant features, etc.
Hydrophytic Vegetation Present?	Yes X No	Is the Sampled A	rea	
Hydric Soil Present?	Yes X No	within a Wetland	? Yes X	No
Wetland Hydrology Present?	Yes X No	If yes, optional We	tland Site ID:	
Remarks: (Explain alternative procedures he	ere or in a separate report.)			
shallow emergent marsh				
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks	
X Surface Water (A1)	Water-Stained Leaves (B9	9)	Drainage Patterns (	
X High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (B	16)
X Saturation (A3)	Marl Deposits (B15)		Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows (C	•
Sediment Deposits (B2)	X Oxidized Rhizospheres on	. ,		n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron		Stunted or Stressed	
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6)	X Geomorphic Positio	
Iron Deposits (B5)	Thin Muck Surface (C7)	-1	Shallow Aquitard (D	· ·
Inundation Visible on Aerial Imagery (B7) Sparsely Vegetated Concave Surface (B	· — · · ·	s)	Microtopographic R X FAC-Neutral Test (I	` '
Field Observations:	<u> </u>		A FAC-INEULIAI 1651 (L	)) 
Surface Water Present? Yes x	No Depth (inches):	2		
Water Table Present? Yes x	No Depth (inches):	12		
Saturation Present? Yes x	No Depth (inches):		d Hydrology Present?	Yes X No
(includes capillary fringe)			w 11, g,	<u></u>
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:	
Remarks:				

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
<del></del>				Number of Deminant Species
				Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant Species Across All Strata: 2 (B)
				``
). ).				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
·				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species99 x 1 =99
. Cornus amomum	15	Yes	FACW	FACW species 22 x 2 = 44
Alnus incana	2	No	FACW	FAC species 2 x 3 = 6
·				FACU species0 x 4 =0
·				UPL species0 x 5 =0
i				Column Totals: 123 (A) 149 (B
		· .		Prevalence Index = B/A = 1.21
				Hydrophytic Vegetation Indicators:
	17	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )		•		X 2 - Dominance Test is >50%
Typha angustifolia	92	Yes	OBL	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
3. Juncus effusus	2	No	OBL	data in Remarks or on a separate sheet)
				Duchlam skip I hydrophy kip \/ a sekaki a p 1 (Fyrelain)
Onoclea sensibilis	5	. <u>No</u>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. Equisetum arvense	2	No No	FAC_	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
S				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
3.				Tree – Woody plants 3 in. (7.6 cm) or more in
)				diameter at breast height (DBH), regardless of height.
0				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2				Herb – All herbaceous (non-woody) plants, regardless
	106	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Noody Vine Stratum (Plot size: 30' )		•		
				<b>Woody vines</b> – All woody vines greater than 3.28 ft in height.
				Hydrophytic
				Vegetation Present? Yes X No
l				Present?
		=Total Cover		

SOIL Sampling Point MH-A-16 wet

Depth	Matrix	o the de		r Featur			onfirm the absence o	i maicators.)
(inches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-5	10YR 4/2	70	5YR 4/6	_30_	<u>C</u>	PL/M	Loamy/Clayey	Prominent redox concentrations
5-16	10Y 4/1		2.5Y 5/6	30	<u>C</u>	_M_	Loamy/Clayey	Prominent redox concentrations
		<u> </u>				<u> </u>		
17 0 0		<u> </u>			<u> </u>	<u> </u>	21	
Hydric Soil II Histosol ( Histic Epi Black His Hydroger Stratified Depleted Thick Dan Mesic Sp (MLRA Sandy Mi Sandy Gl Sandy Re Stripped	ndicators: A1) pedon (A2) tic (A3) Sulfide (A4) Layers (A5) Below Dark Surface K Surface (A12) odic (A17) A 144A, 145, 149B) Lucky Mineral (S1) eyed Matrix (S4)		M=Reduced Matrix, M Dark Surface (\$ Polyvalue Beloo MLRA 149B) Thin Dark Surfa High Chroma S Loamy Mucky I X Loamy Gleyed X Depleted Matrix Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LRI Red Parent Ma	S7) w Surfa cace (S9) cands (S dineral Matrix ( c (F3) rface (F Surface sions (F R K, L)	ce (S8) (I ) (LRR R S11) (LRI (F1) (LRI F2) S6) s (F7) 8)	LRR R, , MLRA 1 R K, L) R K, L)	Indicators for 2 cm Mu 2 cm Mu Coast Pr 5 cm Mu Polyvalu Thin Dar Iron-Mar Piedmor Red Par Very Sha Other (E	PL=Pore Lining, M=Matrix.  Por Problematic Hydric Soils <sup>3</sup> :  Lick (A10) (LRR K, L, MLRA 149B)  Prairie Redox (A16) (LRR K, L, R)  Licky Peat or Peat (S3) (LRR K, L, R)  Licky Peat or Peat (S8) (LRR K, L)  Prace (S9) (LRR K, L)  P
Type: _ Depth (in	none	)					Hydric Soil Presei	nt? Yes_X No
Remarks:								



Wetland MH-A-16- View facing west



Wetland MH-A-16- Soils

# **SITE 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/County: Ballsto	n Spa/ Saratoga	Sampling Date: 1/18/23		
Applicant/Owner: TDI			State: NY	Sampling Point: MH-A-16 upl		
Investigator(s): C. Einstein & N. Frazer		Section, To	wnship, Range:	<u> </u>		
Landform (hillside, terrace, etc.): flat	Local re	elief (concave, conve	ex. none): none	Slope %: 0		
Subregion (LRR or MLRA): LRR R	Lat: 42-58-3.18N	-	73-51-9.93W	' Datum:		
Soil Map Unit Name: Mosherville silt loam (M			NWI classification			
Are climatic / hydrologic conditions on the site		Ves v		, explain in Remarks.)		
		Yes x	`	,		
Are Vegetation, Soil, or Hydrol			mal Circumstances" pres			
Are Vegetation, Soil, or Hydrol	<u></u>		d, explain any answers i	•		
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, in	mportant features, etc.		
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea			
Hydric Soil Present?	Yes X No	within a Wetland	? Yes	No X		
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID:			
Remarks: (Explain alternative procedures he Data point is for MH-A-16 and MH-B-1 upland	,					
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators	(minimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Crack	ks (B6)		
Surface Water (A1)	Water-Stained Leaves (B	9)	Drainage Patterns			
High Water Table (A2)	Aquatic Fauna (B13)		Moss Trim Lines (	•		
Saturation (A3)	Marl Deposits (B15)		Dry-Season Water			
Water Marks (B1)	Hydrogen Sulfide Odor (C	•	Crayfish Burrows	` '		
Sediment Deposits (B2)	Oxidized Rhizospheres or			on Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron Recent Iron Reduction in	, ,	Stunted or Stresse	i i		
Algal Mat or Crust (B4) Iron Deposits (B5)	Thin Muck Surface (C7)	Tilled Solls (Co)	oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)			
Inundation Visible on Aerial Imagery (B7		(e)	Microtopographic			
Sparsely Vegetated Concave Surface (B	· <del></del> · · ·	.5)	FAC-Neutral Test			
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):		nd Hydrology Present?	Yes NoX		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mor	nitoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

	Absolute	Dominant	Indicator	
ree Stratum (Plot size:30')	% Cover	Species?	Status	Dominance Test worksheet:
				Number of Dominant Species
· <u></u> _				That Are OBL, FACW, or FAC: 0 (A)
				Total Number of Dominant Species Across All Strata: 1 (B)
				(-)
		· ——		Percent of Dominant Species
·		<del></del>		That Are OBL, FACW, or FAC: 0.0% (A/E
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
apling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
				FACW species 0 x 2 = 0
				FAC species 0 x 3 = 0
				FACU species 100 x 4 = 400
				UPL species 1 x 5 = 5
				Column Totals: 101 (A) 405 (E
				Prevalence Index = B/A = 4.01
				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
erb Stratum (Plot size:5' )				2 - Dominance Test is >50%
Poa pratensis	85	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
Solidago canadensis	10	No	FACU	4 - Morphological Adaptations (Provide supporti
Plantago lanceolata	5	No	FACU	data in Remarks or on a separate sheet)
Daucus carota	1	No	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
· -		<u> </u>		Definitions of Vegetation Strata:
				Tree – Woody plants 3 in. (7.6 cm) or more in
				diameter at breast height (DBH), regardless of height
)				Sapling/shrub – Woody plants less than 3 in. DBH
1				and greater than or equal to 3.28 ft (1 m) tall.
2.				Herb – All herbaceous (non-woody) plants, regardles
	101	=Total Cover		of size, and woody plants less than 3.28 ft tall.
/oody Vine Stratum (Plot size: 30' )				Washings Alloward wines anathor then 2 20 ft
·				<b>Woody vines</b> – All woody vines greater than 3.28 ft i height.
				Hydrophytic
				Vegetation
				Present? Yes No X
		=Total Cover		

SOIL Sampling Point MH-A-16 upl

Profile Desc	ription: (Describe t Matrix	o the de	-	<b>ument tl</b> x Featur		ator or co	onfirm the absence of	f indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-5	10YR 4/3	100					Loamy/Clayey		
5-16	10YR 4/2	98	10YR 5/6	2			Loamy/Clayey	Prominent redox concentration	
<del>3-10</del>	1018 4/2	90	10113/0		<u> </u>		Loanly/Clayey	Prominent redox concentration	18
<sup>1</sup> Type: C=Co	ncentration D=Deple	etion RI	M=Reduced Matrix, M	 IS=Mas	ked San	d Grains	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil I		ouon, ru	VI TROUBOCK WIGHTA, IV	io ivido	itou ouri	a Grains.		or Problematic Hydric Soils <sup>3</sup> :	
Histosol (			Dark Surface (	S7)				ck (A10) ( <b>LRR K, L, MLRA 149B</b> )	)
	ipedon (A2)		Polyvalue Belo		ce (S8) (	LRR R,		rairie Redox (A16) (LRR K, L, R)	,
Black His			MLRA 149B		, , ,			cky Peat or Peat (S3) (LRR K, L,	R)
Hydroger	n Sulfide (A4)		Thin Dark Surfa	ace (S9)	(LRR R	, MLRA 1	149B) Polyvalu	e Below Surface (S8) (LRR K, L)	
Stratified	Layers (A5)		High Chroma S	Sands (S	311) ( <b>LR</b> I	R K, L)	Thin Dar	k Surface (S9) ( <b>LRR K, L</b> )	
Depleted	Below Dark Surface	(A11)	Loamy Mucky	Mineral	(F1) ( <b>LR</b>	R K, L)	Iron-Man	iganese Masses (F12) ( <b>LRR K, L</b> ,	, <b>R</b> )
	rk Surface (A12)		Loamy Gleyed	Matrix (	F2)		Piedmon	t Floodplain Soils (F19) ( <b>MLRA 1</b>	<b>49B</b> )
Mesic Sp	oodic (A17)		X Depleted Matri					ent Material (F21) <b>(outside MLR<i>A</i></b>	<b>145</b> )
	A 144A, 145, 149B)		Redox Dark Su		-			allow Dark Surface (F22)	
	ucky Mineral (S1)		Depleted Dark				Other (E	xplain in Remarks)	
	leyed Matrix (S4)		Redox Depress	•	8)		31		
	edox (S5) Matrix (S6)		Marl (F10) (LR		24) /8/11	DA 44E\		rs of hydrophytic vegetation and	
Suipped	Matrix (30)		Red Parent Ma	iteriai (F	21) (IVILI	XA 145)		d hydrology must be present, disturbed or problematic.	
Restrictive I	.ayer (if observed):						unic33	disturbed of problematic.	
Type:	none	Э							
Depth (in	iches).						Hydric Soil Preser	nt? Yes X No	
							Tryunc con r reser	163 <u>A</u> 10	
Remarks:									



Upland MH-A-16 & MH-B-1- View facing southwest



Upland MH-A-16 & MH-B-1- Soils

## **SITE 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/County: Ballston Spa/ Saratoga Sampling Date: 1/18/23
Applicant/Owner: TDI	State: NY Sampling Point: MH-B-1 Wet
Investigator(s): C. Einstein & N. Frazer	Section, Township, Range:
Landform (hillside, terrace, etc.): flat	Local relief (concave, convex, none): none Slope %: 0
Subregion (LRR or MLRA): LRR R Lat: 42-58-2.99N	
Soil Map Unit Name: Mosherville silt loam (MvB)	NWI classification: PFO
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes x No (If no, explain in Remarks.)
Are Vegetation , Soil , or Hydrology significantly	
Are Vegetation , Soil , or Hydrology naturally pro	
<del></del> <del></del>	sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	If yes, optional Wetland Site ID:
Remarks: (Explain alternative procedures here or in a separate repo	
red maple hardwood swamp	,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	<del></del>
Surface Water (A1) Water-Stained Lea	
X High Water Table (A2) Aquatic Fauna (B	
X Saturation (A3) Marl Deposits (B1	5) Dry-Season Water Table (C2)
Water Marks (B1) Hydrogen Sulfide	
	heres on Living Roots (C3) Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Presence of Redu	
<del></del>	ction in Tilled Soils (C6) Geomorphic Position (D2)
Iron Deposits (B5) Thin Muck Surface	
Inundation Visible on Aerial Imagery (B7)Other (Explain in F	
Sparsely Vegetated Concave Surface (B8)	X FAC-Neutral Test (D5)
Field Observations:	
Surface Water Present? Yes No _x Depth (in	
Water Table Present? Yes x No Depth (in	
Saturation Present? Yes x No Depth (in	ches):5
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial phot	os, previous inspections), if available:
Remarks:	

<b>EGETATION</b> – Use scientific names of pl				Sampling Point: MH-B-1 We	et_
Tree Stratum (Plot size:30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:	
1. Pinus strobus	10	No	FACU	Number of Dominant Species	
2. Fraxinus pennsylvanica	5	No	FACW	That Are OBL, FACW, or FAC:4 (A	١)
3. Alnus incana	5	No	FACW	Total Number of Dominant	
4. Populus deltoides	15	Yes	FAC	Species Across All Strata: 5 (B	3)
5. Ulmus americana	20	Yes	FACW	Percent of Dominant Species	
6. Rhamnus cathartica	5	No	FAC	•	VB)
				Prevalence Index worksheet:	
	60	=Total Cover		Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0	
1. Cornus amomum	5	No	FACW	FACW species 60 x 2 = 120	
2. Alnus incana	5	No	FACW	FAC species 40 x 3 = 120	
3. Lonicera tatarica	10	Yes	FACU	FACU species 20 x 4 = 80	
4. Rhamnus cathartica	20	Yes	FAC	UPL species 0 x 5 = 0	
5.				Column Totals: 120 (A) 320	(B)
6.				Prevalence Index = B/A = 2.67	
				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	20	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>	
2.				4 - Morphological Adaptations (Provide suppor	rtino
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.	st
7.				Definitions of Vegetation Strata:	
3.				Tree – Woody plants 3 in. (7.6 cm) or more in	
9				diameter at breast height (DBH), regardless of heig	ght.
10				Sapling/shrub – Woody plants less than 3 in. DBH	4
11				and greater than or equal to 3.28 ft (1 m) tall.	
12	-			<b>Herb</b> – All herbaceous (non-woody) plants, regardle	ess
	20	=Total Cover		of size, and woody plants less than 3.28 ft tall.	
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 f	ft in
1				height.	
2.					
3.				Hydrophytic Vegetation	
4.				Present? Yes X No	
		=Total Cover			

SOIL Sampling Point MH-B-1 Wet

Profile Descr Depth	ription: (Describe t Matrix	o the de	-	<b>ıment tl</b> x Featur		ator or co	onfirm the absence of ir	idicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	S
0-6	10YR 2/1	100					Loamy/Clayey		
6-16	10YR 4/1	95	10YR 4/4				Loamy/Clayey	Distinct redox con	contrations
0-10	1018 4/1	95	101R 4/4	5		_M_	Loamy/Clayey	Distinct redox con	centrations
									-
¹Type: C=Co	ncentration D=Denk	etion RN	——————————————————————————————————————	  seM=21	ked Sand		2l ocation: Pl =	Pore Lining, M=Matr	iv
Hydric Soil Ir		cuon, ru	W-reduced Matrix, IV	IO-IVIA3	ica cari	d Orallis.		Problematic Hydric	
Histosol (			Dark Surface (	S7)				(A10) (LRR K, L, M	
Histic Epi	pedon (A2)		Polyvalue Belo	w Surfa	ce (S8) (	LRR R,	Coast Prair	ie Redox (A16) ( <b>LRI</b>	R K, L, R)
Black His	tic (A3)		MLRA 149B	)			5 cm Muck	y Peat or Peat (S3) (	LRR K, L, R)
	Sulfide (A4)		Thin Dark Surfa					Below Surface (S8) (	•
	Layers (A5)		High Chroma S					Surface (S9) ( <b>LRR K</b>	•
	Below Dark Surface	(A11)	Loamy Mucky I			R K, L)		inese Masses (F12)	
	k Surface (A12)		Loamy Gleyed		F2)			loodplain Soils (F19	
	odic (A17)		X Depleted Matrix		-0\			Material (F21) (out	
	<b>A 144A, 145, 149B)</b> ucky Mineral (S1)		Redox Dark Su		-			ow Dark Surface (F2: ain in Remarks)	2)
	• ,		Depleted Dark				Other (Exp	am in Remarks)	
Sandy Re	eyed Matrix (S4)		Redox Depress Marl (F10) (LR		0)		<sup>3</sup> Indicators	of hydrophytic veget	ation and
	Matrix (S6)		Red Parent Ma		21) (MI F	2Δ 145)		nydrology must be pi	
Campped !	WidthX (GG)		TROUT GIVEN WE	itoriai (i	21) (III <b>2</b> 1	U- 1-0)		sturbed or problema	
Restrictive L	ayer (if observed):								
Type: _	none	e							
Depth (in	ches):						Hydric Soil Present?	Yes X	No
Remarks:									



Wetland MH-B-1- View facing east



Wetland MH-B-1- Soils

# **SITE 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 - Segment 6 - Package 4A	City/	County: Ballston/ Saratoga	Sampling Date: 04/12/23
Applicant/Owner: TDI		State: NY	Sampling Point: Wet P4-C-7
Investigator(s): C.Scrivner & C. Einstein		Section, Township, Range:	
Landform (hillside, terrace, etc.): Depression	Local relief	(concave, convex, none): Concave	Slope %: 5
· · · · · · · · · · · · · · · · · · ·	Lat: 42.962791° N		Datum: NAD83
Subregion (LRR or MLRA): LRR R	Lat: 42.902791* N	Long: -73.852956° W	
Soil Map Unit Name: Sn: Sun silt loam		NWI classification:	PFO1
Are climatic / hydrologic conditions on the site typi	ical for this time of year?	Yes x No (If no,	explain in Remarks.)
Are Vegetation, Soil, or Hydrology	y significantly disturbed?	Are "Normal Circumstances" prese	nt? Yes x No
Are Vegetation, Soil, or Hydrology	y naturally problematic?	(If needed, explain any answers in	Remarks.)
SUMMARY OF FINDINGS – Attach site	e map showing sampling	g point locations, transects, imp	portant features, etc.
		the Sampled Area	
,		thin a Wetland? Yes X	No
,		ves, optional Wetland Site ID: Near flag	P4-C-7
Remarks: (Explain alternative procedures here	or in a separate report.)		
Red maple hardwood swamp.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (m	ninimum 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)
X High Water Table (A2)	Aquatic Fauna (B13)	X Moss Trim Lines (B	16)
X Saturation (A3)	Marl Deposits (B15)	Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C1)	Crayfish Burrows (C	8)
Sediment Deposits (B2)	Oxidized Rhizospheres on Liv	ing Roots (C3)Saturation Visible of	n Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iron (C4	4) Stunted or Stressed	Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in Tille	d Soils (C6) Geomorphic Positio	n (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D	3)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	Microtopographic R	elief (D4)
Sparsely Vegetated Concave Surface (B8)		X FAC-Neutral Test (I	05)
Field Observations:			
Surface Water Present? Yes N	lo X Depth (inches):	<u></u>	
Water Table Present? Yes X N	lo Depth (inches): 7		
Saturation Present? Yes X N	lo Depth (inches): 3	Wetland Hydrology Present?	Yes X No
(includes capillary fringe)			
Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous	inspections), if available:	
Remarks:			

	Absolute	Dominant	Indicator			
<u>ree Stratum</u> (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:		
. Acer rubrum	40	Yes	FAC	Number of Dominant Species		
2. Fraxinus pennsylvanica	30	Yes	FACW	That Are OBL, FACW, or FAC:	7	(A)
3. Quercus bicolor	20	Yes	FACW	Total Number of Dominant		
. Ulmus americana	10	No	FACW	Species Across All Strata:	9	(B)
5.				Percent of Dominant Species		
S				That Are OBL, FACW, or FAC:	77.8%	(A/B)
·				Prevalence Index worksheet:		
	100	=Total Cover		Total % Cover of:	Multiply by:	
Sapling/Shrub Stratum (Plot size:15'	_)			OBL species 0 x	1 =0	
. Fraxinus pennsylvanica	10	Yes	FACW	FACW species 88 x	2 = 176	
. Ulmus americana	10	Yes	FACW	FAC species 55 x	3 = 165	
3. Lonicera morrowii	8	Yes	FACU	FACU species 21 x	4 = 84	
Cornus racemosa	5	No	FAC	UPL species 0 x	5 = 0	
6. Acer rubrum	5	No	FAC	Column Totals: 164 (A	A) 425	(B
6. Pinus strobus	3	No	FACU	Prevalence Index = B/A =	2.59	
·		· '		Hydrophytic Vegetation Indicate	ors:	
	41	=Total Cover		1 - Rapid Test for Hydrophytic	c Vegetation	
Herb Stratum (Plot size: 5' )		-		X 2 - Dominance Test is >50%	-	
. Lonicera morrowii	10	Yes	FACU	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
2. Onoclea sensibilis	5	Yes	FACW	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3. Osmundastrum cinnamomeum	3	No	FACW	data in Remarks or on a se	eparate sheet)	
i.				Problematic Hydrophytic Veg	etation <sup>1</sup> (Expla	uin)
5.				1		
<u> </u>		·		<sup>1</sup> Indicators of hydric soil and wetla present, unless disturbed or probl		must t
	_			Definitions of Vegetation Strata		
3.						
).				Tree – Woody plants 3 in. (7.6 cm at breast height (DBH), regardles:		amete
0.	_				-	
1.	_			Sapling/shrub – Woody plants le and greater than or equal to 3.28		ВΗ
2.						
	18	=Total Cover		<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less that		ardless
Voody Vine Stratum (Plot size: 30'	10	_ Total Cover				
. Toxicodendron radicans	-' 5	Yes	FAC	<b>Woody vines</b> – All woody vines g height.	reater than 3.2	28 ft in
		103	TAO	noight.		
 J.	_			Hydrophytic		
	_			Vegetation	Na	
·		T-1.10		Present? Yes X	No	
	5	=Total Cover				

SOIL Sampling Point: Wet P4-C-7

Profile Desc Depth	ription: (Describe to Matrix	the dep		ment the		tor or co	nfirm the absence of	indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10	10YR 3/1	100					Loamy/Clayey	
			40VD F/0					Draminant raday concentrations
10-17	10YR 4/1	60	10YR 5/8	30	<u>C</u>	<u>M</u>	Loamy/Clayey	Prominent redox concentrations
			10YR 2/1	10	<u>C</u>	M		Faint redox concentrations
	·							
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion. RM	=Reduced Matrix. M	S=Mask	ed Sand	Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil I					04 04.14	0.0		or Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface (	S7)			2 cm Mu	ck (A10) ( <b>LRR K, L, MLRA 149B</b> )
Histic Ep	ipedon (A2)		Polyvalue Belo	w Surfac	ce (S8) ( <b>I</b>	RR R,	Coast Pr	rairie Redox (A16) (LRR K, L, R)
Black His	• •		MLRA 149B	,				cky Peat or Peat (S3) (LRR K, L, R)
	n Sulfide (A4)		Thin Dark Surfa					e Below Surface (S8) (LRR K, L)
	Layers (A5)  Below Dark Surface	(411)	High Chroma S Loamy Mucky I					rk Surface (S9) ( <b>LRR K, L</b> ) nganese Masses (F12) ( <b>LRR K, L, R</b> )
	rk Surface (A12)	(Δ11)	Loamy Gleyed			· π, ∟)		nt Floodplain Soils (F19) (MLRA 149B)
	oodic (A17)		X Depleted Matrix	,	_,			ent Material (F21) (outside MLRA 145)
	A 144A, 145, 149B)		Redox Dark Su		6)			allow Dark Surface (F22)
Sandy M	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (E	xplain in Remarks)
	leyed Matrix (S4)		Redox Depress		3)		3	
	edox (S5)		Marl (F10) ( <b>LR</b>		04) <b>(14)</b> E			rs of hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	iterial (F2	21) <b>(ML</b> F	(A 145)		d hydrology must be present,
Restrictive L	.ayer (if observed):						unless	disturbed or problematic.
Type:	, 6. ( 66 16).							
Depth (in							Hydric Soil Preser	nt? Yes X No
Remarks:	· ·							
Remarks.								



Wetland P4-C - View facing south.



Wetland P4-C - Soils

# **SITE 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 - Segment 6 - Package	÷ 4A	City/County: Ballston/ Saratoga	Sampling Date: 04/12/23
Applicant/Owner: TDI		State: NY	Sampling Point: Upl P4-C-7
Investigator(s): C.Scrivner & C. Einstein		Section, Township, Range:	
Landform (hillside, terrace, etc.): Hillslope	l ocal re	elief (concave, convex, none): Convex	Slope %: 20
Subregion (LRR or MLRA): LRR R	Lat: 42.963184° N		Datum: NAD83
	Lat. 42.903104 N	Long: -73.853313° W	
Soil Map Unit Name: Sn: Sun silt loam		NWI classification:	
Are climatic / hydrologic conditions on the sit	e typical for this time of year?	Yes x No (If no	, explain in Remarks.)
Are Vegetation, Soil, or Hydi	rology significantly disturb	ped? Are "Normal Circumstances" pres	ent? Yes x No
Are Vegetation, Soil, or Hydr	rology naturally problemat	tic? (If needed, explain any answers in	n Remarks.)
SUMMARY OF FINDINGS – Attach	site map showing samp	oling point locations, transects, in	portant features, etc.
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled Area	N. V
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 procedures h	nere or in a separate report.)		
Successional Northern Hardwoods.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (	minimum of two required)
Primary Indicators (minimum of one is requi	red; check all that apply)	Surface Soil Crack	ss (B6)
Surface Water (A1)	Water-Stained Leaves (B	39) Drainage Patterns	(B10)
High Water Table (A2)	Aquatic Fauna (B13)	Moss Trim Lines (I	316)
Saturation (A3)	Marl Deposits (B15)	Dry-Season Water	Table (C2)
Water Marks (B1)	Hydrogen Sulfide Odor (C	C1) Crayfish Burrows (	(C8)
Sediment Deposits (B2)	Oxidized Rhizospheres of	n Living Roots (C3) Saturation Visible	on Aerial Imagery (C9)
Drift Deposits (B3)	Presence of Reduced Iro	on (C4) Stunted or Stresse	ed Plants (D1)
Algal Mat or Crust (B4)	Recent Iron Reduction in	Tilled Soils (C6) Geomorphic Positi	on (D2)
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (	D3)
Inundation Visible on Aerial Imagery (B	7)Other (Explain in Remark	(s)Microtopographic I	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 Saturation 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, m	onitoring well, aerial photos, prev	vious inspections), if available:	
Remarks:			

Tree Stratum (Plot size: 30')	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. Quercus rubra	35	Yes	FACU	
Quercus alba	20	Yes	FACU	Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
Fagus grandifolia	10	No	FACU	
Prunus serotina	10	No	FACU	Total Number of Dominant Species Across All Strata: 7 (B)
5. Carya ovata	10	No	FACU	· ` ,
6.				Percent of Dominant Species That Are OBL, FACW, or FAC:28.6% (A/B)
7.				Prevalence Index worksheet:
	85	=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:15')				OBL species0 x 1 =0
1. Fagus grandifolia	10	Yes	FACU	FACW species 0 x 2 = 0
2. Rhamnus cathartica	5	Yes	FAC	FAC species 10 x 3 = 30
3				FACU species102 x 4 =408
4				UPL species 5 x 5 = 25
5				Column Totals: 117 (A) 463 (B)
6.				Prevalence Index = B/A = 3.96
7.				Hydrophytic Vegetation Indicators:
	15	=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size: 5' )				2 - Dominance Test is >50%
1. Lonicera morrowii	5	Yes	FACU	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Erythronium americanum	5	Yes	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
3. Fragaria virginiana	2	No	FACU	data in Remarks or on a separate sheet)
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5.				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be
6.				present, unless disturbed or problematic.
7.				Definitions of Vegetation Strata:
8.				Tree – Woody plants 3 in. (7.6 cm) or more in diameter
9.				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
	12	=Total Cover		of size, and woody plants less than 3.28 ft tall.
Woody Vine Stratum (Plot size:)				Woody vines – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans	5	Yes	FAC	height.
2				Thirdren hadin
3.				Hydrophytic Vegetation
4				Present? Yes No X
	5 :	=Total Cover		

Sampling Point: Upl P4-C-7

SOIL Sampling Point: Upl P4-C-7

		the depth				or or co	nfirm the absence of indic	ators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	<u> </u>		Color (moist)		Турс			Remarks
0-11	10YR 3/2	100					Loamy/Clayey	
			_					
1	tusting D. Danie		alica and Matrice MAC				2 <sub>1</sub> + i Dl D-	an Linium DA Madrin
Hydric Soil Ir	ncentration, D=Deple	tion, RIVI=RE	educed Matrix, Mis	S=IVIaske	ed Sand	Grains.		re Lining, M=Matrix.  oblematic Hydric Soils <sup>3</sup> :
Histosol (			Dark Surface (S	27)				.10) (LRR K, L, MLRA 149B)
	pedon (A2)		Polyvalue Belov	,	e (S8) (I	RRR		Redox (A16) ( <b>LRR K, L, R</b> )
Black His		_	MLRA 149B)		)C (OO) (E			Peat or Peat (S3) (LRR K, L, R)
	Sulfide (A4)		Thin Dark Surfa		(LRR R.	MLRA 1		ow Surface (S8) (LRR K, L)
	Layers (A5)		High Chroma S					rface (S9) (LRR K, L)
	Below Dark Surface	(A11)	Loamy Mucky N					ese Masses (F12) (LRR K, L, R)
	rk Surface (A12)	`	Loamy Gleyed			, ,		odplain Soils (F19) (MLRA 149B)
	odic (A17)		Depleted Matrix	,	,			laterial (F21) (outside MLRA 145)
	A 144A, 145, 149B)		_ · Redox Dark Su		6)			Dark Surface (F22)
	ucky Mineral (S1)		Depleted Dark	Surface	(F7)		Other (Explain	n in Remarks)
Sandy Gl	eyed Matrix (S4)		Redox Depress	ions (F8	3)		<u> </u>	
Sandy Re	edox (S5)		Marl (F10) ( <b>LRI</b>	R K, L)			<sup>3</sup> Indicators of	hydrophytic vegetation and
Stripped	Matrix (S6)		Red Parent Ma	terial (F2	21) <b>(MLR</b>	A 145)	wetland hyd	drology must be present,
							unless distu	urbed or problematic.
Restrictive L	ayer (if observed):							
Type:	Stone	е						
Depth (in	ches):	11					Hydric Soil Present?	Yes No _X
Remarks:			<u>-</u>					
. tomanto								



**Upland P4-C - View facing west.** 



**Upland P4-C - Soils** 

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Ballsto	n/Saratoga	Sampling Date: 12/15/21
Applicant/Owner: TDI		State: NY	Sampling Point: C-CP-B-3 Wet
Investigator(s): J. Greaves & N. Frazer	Section, To	ownship, Range:	
Landform (hillside, terrace, etc.): Linear depression	Local relief (concave, conve		Slope %: 2
Subregion (LRR or MLRA): LRR R La		73-51-12W	<del></del>
Soil Map Unit Name: Sn - Sun silt loam		NWI classification:	<del></del>
Are climatic / hydrologic conditions on the site typical for	or this time of year? Yes X		explain in Remarks.)
Are Vegetation , Soil , or Hydrology			ent? Yes X No
Are Vegetation , Soil , or Hydrology		ed, explain any answers in	
SUMMARY OF FINDINGS – Attach site ma		, ,	,
Hydrophytic Vegetation Present?  Hydric Soil Present?  Yes X  Yes X	No within a Wetland	1? Yes X	No
Wetland Hydrology Present? Yes X  Remarks: (Explain alternative procedures here or in a		etland Site ID:	
Shallow emergent marsh.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indicators (r	minimum of two required)
Primary Indicators (minimum of one is required; check		Surface Soil Cracks	` '
l <del></del>	ter-Stained Leaves (B9)	Drainage Patterns	· · · ·
I <del></del>	uatic Fauna (B13)	Moss Trim Lines (E	·
I — — — —	1 Deposits (B15)	Dry-Season Water	· · ·
I —	Irogen Sulfide Odor (C1) dized Rhizospheres on Living Roots (C3)	Crayfish Burrows (0	on Aerial Imagery (C9)
<u> </u>	sence of Reduced Iron (C4)	Stunted or Stresse	• • • •
l <del></del>	cent Iron Reduction in Tilled Soils (C6)	X Geomorphic Position	
<u> </u>	n Muck Surface (C7)	X Shallow Aquitard (	` '
l <del></del>	er (Explain in Remarks)	Microtopographic F	· ·
Sparsely Vegetated Concave Surface (B8)	or (Explain in Nomano)	X FAC-Neutral Test (	
Field Observations:		<u> </u>	
Surface Water Present? Yes X No	Depth (inches): 4		
Water Table Present? Yes X No	Depth (inches): 0		
Saturation Present? Yes x No		nd Hydrology Present?	Yes X No
(includes capillary fringe)	_ ' ` '	, 0,	
Describe Recorded Data (stream gauge, monitoring w	ell, aerial photos, previous inspections), if	available:	
Remarks:			

Tree Stratum (Plot size: 30')

Sapling/Shrub Stratum (Plot size: 15'

Herb Stratum (Plot size: 5')

llex verticillata

Lemna minor

Bidens frondosa

Lythrum salicaria

Typha latifolia

Carex stricta

Alisma subcordatum

1.

2.

3.

4.

5.

6.

7.

2.

3.

4.

5.

6.

7.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.

Absolute

% Cover

Dominant

Species?

=Total Cover

5 =Total Cover

35

20

15

10

5

Yes

Yes

No

No

No

No

Indicator

Status

**FACW** 

OBL

**FACW** 

OBL

OBL

OBL

OBL

	125=Total Cover	of size, and woody plants les
Woody Vine Stratum (Plot size: 30' ) 1.		Woody vines – All woody vineight.
2		Hydrophytic Vegetation Present? Yes X
	=Total Cover	
Remarks: (Include photo numbers here or on a sepa	rate sheet.)	

No \_\_\_

SOIL Sampling Point <u>C-CP-B-3 Wet</u>

Profile Desc Depth	cription: (Describe t Matrix	o the de	•	<b>ıment tl</b> x Featur		ator or co	onfirm the absence o	f indicators.)
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-7	10YR 2/1	100			<del></del>		Sandy	
7_21	2 5V 3/1	02	10VP 3/6				L camy/Clayey	Prominent redox concentrations
7-21	2.5Y 3/1	92 ————————————————————————————————————	10YR 3/6			_m	Loamy/Clayey	Prominent redox concentrations
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion RN	/=Reduced Matrix M	 IS=Mas	ked Sand	d Grains	<sup>2</sup> I ocation: P	L=Pore Lining, M=Matrix.
Hydric Soil I Histosol Histic Ep Black Hi X Hydroge Stratified Depleted Thick Da Sandy M Sandy G Sandy R Stripped ? Dark Sui	Indicators:  (A1) Dipedon (A2) Stic (A3) In Sulfide (A4) Id Layers (A5) Id Below Dark Surface Eark Surface (A12) Iducky Mineral (S1) Eleyed Matrix (S4) Eledox (S5) Matrix (S6) Inface (S7) If hydrophytic vegetati Layer (if observed):	· (A11) on and w	Polyvalue Belor MLRA 149B) ? Thin Dark Surfa High Chroma S Loamy Mucky I Loamy Gleyed Depleted Matrix X Redox Dark Su Depleted Dark Redox Depress Marl (F10) (LRI	w Surface (S9) Sands (S Mineral of Matrix ( x (F3) urface (F Surface (F Surface (F R K, L)	ce (S8) ( ) (LRR R 611) (LRI (F1) (LRI F2) 66) (F7)	LRR R, , MLRA 1 R K, L) R K, L)	Indicators for 2 cm Mu Coast Pi 49B) 5 cm Mu Polyvalu Thin Dai Iron-Mar Piedmor Mesic Si Red Par Very Sha	pr Problematic Hydric Soils <sup>3</sup> : lick (A10) (LRR K, L, MLRA 149B) rairie Redox (A16) (LRR K, L, R) licky Peat or Peat (S3) (LRR K, L, R) le Below Surface (S8) (LRR K, L) lick Surface (S9) (LRR K, L) linganese Masses (F12) (LRR K, L, R) lint Floodplain Soils (F19) (MLRA 149B) lipodic (TA6) (MLRA 144A, 145, 149B) lent Material (F21) lallow Dark Surface (F22) lixplain in Remarks)
Type: - Depth (ir	Rock	21					Hydric Soil Presei	nt? Yes X No
	m is revised from Noi 2015 Errata. (http://w							CS Field Indicators of Hydric Soils,



Wetland C-CP-B-3 - View facing northeast.



Wetland C-CP-B-3 - Soils

# **SITE PHOTOGRAPHS**

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

Project/Site: CHPE	City/County: Ballston/Saratoga Sampling Date: 12/15/21
Applicant/Owner: TDI	State: NY Sampling Point: c-cp-в-з upi
Investigator(s): J. Greaves & N. Frazer	Section, Township, Range:
	al relief (concave, convex, none): Convex Slope %: 30
Subregion (LRR or MLRA): LRR R Lat: 42-57-39N	Long: 73-51-12W Datum: WGS84
Soil Map Unit Name: Sn - Sun silt loam	NWI classification:
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 distu	
Are Vegetation, Soil, or Hydrologynaturally problem	
SUMMARY OF FINDINGS – Attach site map showing sar	mpling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	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 procedures here or in a separate report.) Railroad embankment.	
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	
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	
Sediment Deposits (B2) Oxidized Rhizospheres	
Drift Deposits (B3) Presence of Reduced	
Algal Mat or Crust (B4)  Recent Iron Reduction	
Iron Deposits (B5) Thin Muck Surface (C7	
Inundation Visible on Aerial Imagery (B7) Other (Explain in Rema	
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	s): Wetland Hydrology Present? Yes No X
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:
Remarks:	

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size:)	% Cover	Species?	Status	Dominance Test worksheet:
·				Number of Dominant Species
<u> </u>				That Are OBL, FACW, or FAC:1 (A)
				Total Number of Dominant
				Species Across All Strata: 1 (B)
i				Bound of Dominant Consider
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B
				Prevalence Index worksheet:
		=Total Cover		Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size: 15' )				OBL species 0 x 1 = 0
				FACW species 0 x 2 = 0
				FAC species 35 x 3 = 105
				<u> </u>
·				FACU species 5 x 4 = 20
·				UPL species <u>5</u> x 5 = <u>25</u>
i				Column Totals: 45 (A) 150 (B
i				Prevalence Index = B/A = 3.33
·				Hydrophytic Vegetation Indicators:
		=Total Cover		1 - Rapid Test for Hydrophytic Vegetation
Herb Stratum (Plot size:5' )				X 2 - Dominance Test is >50%
. Setaria pumila	35	Yes	FAC	3 - Prevalence Index is ≤3.0 <sup>1</sup>
2. Verbascum thapsus	5	No	UPL	4 - Morphological Adaptations <sup>1</sup> (Provide supportin
3. Oenothera biennis	5	No	FACU	data in Remarks or on a separate sheet)
l				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
·				Definitions of Vegetation Strata:
3.				Tree – Woody plants 3 in. (7.6 cm) or more in
).				diameter at breast height (DBH), regardless of height
0.				Continued by Mandy plants land their 2 in DDI.
1.				Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
2.				
	45	=Total Cover		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
<u>Voody Vine Stratum</u> (Plot size: 30' )		rotal Covol		
·				Woody vines – All woody vines greater than 3.28 ft in
				height.
2				Hydrophytic
3.				Vegetation
				Present?
1		=Total Cover		

SOIL

		o the de				tor or co	onfirm the absence of indi	cators.)	
Depth	Matrix	0/		x Featur		. 2	<b>-</b> .		
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
<sup>1</sup> Type: C=Co	ncentration, D=Deple	etion, RM	I=Reduced Matrix, N	/IS=Mas	ked Sand	Grains.	<sup>2</sup> Location: PL=Po	re Lining, M=Matri	Χ.
Hydric Soil I	ndicators:						Indicators for Pro	blematic Hydric	Soils <sup>3</sup> :
Histosol (			Polyvalue Belo	w Surfa	ce (S8) ( <b>I</b>	RR R.		10) ( <b>LRR K, L, ML</b>	
	ipedon (A2)		MLRA 149B		( - / (	,		Redox (A16) (LRR	=
Black His			Thin Dark Surf		(I RR R	MI RA 1		Peat or Peat (S3) (I	
	n Sulfide (A4)		High Chroma S		-			ow Surface (S8) ( <b>L</b>	
	Layers (A5)		Loamy Mucky					face (S9) ( <b>LRR K</b> ,	
		(444)				κκ, L)			
	Below Dark Surface	(A11)	Loamy Gleyed		F2)			se Masses (F12) (	
	rk Surface (A12)		Depleted Matri					odplain Soils (F19)	
_	ucky Mineral (S1)		Redox Dark Su					(TA6) ( <b>MLRA 144</b>	A, 145, 149B)
_	eyed Matrix (S4)		Depleted Dark				Red Parent M		
Sandy Re	edox (S5)		Redox Depress	sions (F	8)		Very Shallow	Dark Surface (F22	)
Stripped	Matrix (S6)		Marl (F10) ( <b>LR</b>	<b>R K</b> , <b>L</b> )			Other (Explain	n in Remarks)	
Dark Sur	face (S7)								
<sup>3</sup> Indicators of	hydrophytic vegetation	on and w	etland hydrology mu	ıst be pr	esent, ur	ıless dist	urbed or problematic.		
	ayer (if observed):								
Type:	• • •								
-	-h):						Uhadaia Cail Bassanto	Vaa	No. V
Depth (in	ches):						Hydric Soil Present?	Yes	NoX
Remarks:									
Soils consist	of railroad ballast.								



**Upland C-CP-B-3 - View facing southwest.** 

SITE 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/County: Ballstor	n/ Saratoga	Sampling Date: 1/5/23		
Applicant/Owner: TDI			State: NY	Sampling Point: P4A-M We		
Investigator(s): J. Greaves & N. Frazer		Section, To	——— wnship, Range:			
Landform (hillside, terrace, etc.): Depression	n Local re	elief (concave, conve	x, none): Concave	Slope %: 2		
Subregion (LRR or MLRA): LRR R	Lat: 42.956650	•	-73.856341	Datum: NAD83		
Soil Map Unit Name: MvB - Mosherville silt lo		Long.	NWI classification:	<del></del>		
Are climatic / hydrologic conditions on the site		Yes x		explain in Remarks.)		
			(ii iio, s nal Circumstances" prese			
Are Vegetation, Soil, or Hydrole	<del></del>		•			
Are Vegetation, Soil, or Hydrold SUMMARY OF FINDINGS – Attach s			d, explain any answers in tions, transects, im	•		
' ' ' '	Yes X No	Is the Sampled Arwithin a Wetland?		No		
	Yes X No		tland Site ID: near flag	<b>No</b> P4A-M-5		
Remarks: (Explain alternative procedures he		, 555,				
Common reed marsh within linear depression						
Common rood majon						
HYDROLOGY						
Wetland Hydrology Indicators:			Secondary Indicators (m	ninimum of two required)		
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Cracks			
X Surface Water (A1)	X Water-Stained Leaves (BS	9)	X Drainage Patterns (I			
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 (C	<b>;1)</b>	Crayfish Burrows (C	8)		
Sediment Deposits (B2)	Oxidized Rhizospheres or	n Living Roots (C3)	Saturation Visible or	n Aerial Imagery (C9)		
Drift Deposits (B3)	Presence of Reduced Iron	n (C4)	Stunted or Stressed	l Plants (D1)		
Algal Mat or Crust (B4)	Recent Iron Reduction in	n Tilled Soils (C6) X Geomorphic Position (D2)				
Iron Deposits (B5)	Thin Muck Surface (C7)		X Shallow Aquitard (D	3)		
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks	s)	Microtopographic Re	elief (D4)		
Sparsely Vegetated Concave Surface (B8	3)		X FAC-Neutral Test (D	05)		
Field Observations:						
Surface Water Present? Yes X	No Depth (inches): _					
Water Table Present? Yes X	No Depth (inches):  No Depth (inches):	0				
Saturation Present? Yes X	No Depth (inches):	0 Wetlan	d Hydrology Present?	YesX No		
(includes capillary fringe)						
Describe Recorded Data (stream gauge, mon	itoring well, aerial photos, prev	vious inspections), if	available:			
Remarks:						

<u>Tree Stratum</u> (Plot size: 30' )	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:		
1.				Number of Dominant Species		
2.				That Are OBL, FACW, or FAC:1 (A)		
3. 4.				Total Number of Dominant Species Across All Strata:1 (B)		
<ul><li>5.</li><li>6.</li></ul>				Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)		
7				Prevalence Index worksheet:		
		=Total Cover		Total % Cover of: Multiply by:		
Sapling/Shrub Stratum (Plot size:)				OBL species 5 x 1 = 5		
1				FACW species 95 x 2 = 190		
2.				FAC species0 x 3 =0		
3.				FACU species0 x 4 =0		
4				UPL species0 x 5 =0		
5				Column Totals: 100 (A) 195 (B)		
6.				Prevalence Index = B/A =1.95		
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	95	Yes	FACW	X 3 - Prevalence Index is ≤3.0 <sup>1</sup>		
Lythrum salicaria	5	No	OBL	4 - Morphological Adaptations <sup>1</sup> (Provide supporting		
3.				data in Remarks or on a separate sheet)		
4.				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
<ul><li>5.</li><li>6.</li></ul>				<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 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.		·		Hydrophytic		
3. 4.				Vegetation Present? Yes X No		
4.		=Total Cover		100 <u>X</u> 100 <u>X</u>		
Remarks: (Include photo numbers here or on a separ	rate sheet )	•				
Tremarks. (include prioto numbers here of on a separ	ale sileet.)					

Sampling Point: P4A-M Wet

SOIL Sampling Point P4A-M Wet

Depth	ription: (Describe t Matrix	.5 1116 06		dox Featu		ator of CC	onfirm the absence o	r indicators.)	
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 2/2	100					Loamy/Clayey		
6-12	10YR 3/2	95	7.5YR 4/4	5	c	<u>m</u>	Loamy/Clayey	Distinct redox concentrations	
		_							
**Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains  **Hydric Soil Indicators:**				LRR R, , MLRA 1 R K, L) R K, L)	<ul> <li><sup>2</sup>Location: PL=Pore Lining, M=Matrix.</li> <li>Indicators for Problematic Hydric Soils<sup>3</sup>:         <ul> <li>2 cm Muck (A10) (LRR K, L, MLRA 149B)</li> <li>Coast Prairie Redox (A16) (LRR K, L, R)</li> <li>5 cm Mucky Peat or Peat (S3) (LRR K, L, R)</li> </ul> </li> <li>Polyvalue Below Surface (S8) (LRR K, L)         <ul> <li>Iron-Manganese Masses (F12) (LRR K, L, R)</li> <li>Piedmont Floodplain Soils (F19) (MLRA 149B)</li> <li>Red Parent Material (F21) (outside MLRA 145)</li> <li>Very Shallow Dark Surface (F22)</li> <li>Other (Explain in Remarks)</li> </ul> </li> <li><sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.</li> </ul>				
Depth (in	iches):	12					Hydric Soil Prese	nt? Yes <u>X</u> No	
Remarks:									



Wetland P4A-M- View facing south



Wetland P4A-M- Soils

# **SITE 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/County: Ballston	n Lake/ Saratoga	Sampling Date: 1/5/23			
Applicant/Owner: TDI			State: NY	Sampling Point: P4A-M Upl			
Investigator(s): J. Greaves & N. Frazer		Section, To	wnship, Range:	<u> </u>			
Landform (hillside, terrace, etc.): terrace	Local re	elief (concave, conve		Slope %: 0			
Subregion (LRR or MLRA): LRR R	Lat: 42.956570	•	-73.856261	 Datum: NAD83			
Soil Map Unit Name: MvB - Mosherville silt lo			NWI classification:				
·				avalain in Domarks )			
Are climatic / hydrologic conditions on the site		Yes x	` `	explain in Remarks.)			
Are Vegetation, Soil, or Hydrol			nal Circumstances" pres				
Are Vegetation, Soil, or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)							
SUMMARY OF FINDINGS – Attach	site map showing samp	pling point loca	tions, transects, in	nportant features, etc.			
Hydrophytic Vegetation Present?	Yes No X	Is the Sampled A	rea				
Hydric Soil Present?	Yes X No	within a Wetland	? Yes	No X			
Wetland Hydrology Present?	Yes No X	If yes, optional We	etland Site ID: near flag	9 P4A-M-5			
Remarks: (Explain alternative procedures he	re or in a separate report.)						
Mowed lawn.							
HYDROLOGY							
Wetland Hydrology Indicators:			Secondary Indicators (	minimum of two required)			
Primary Indicators (minimum of one is require	ed; check all that apply)		Surface Soil Crack	s (B6)			
Surface Water (A1)	Water-Stained Leaves (B						
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 (C						
Sediment Deposits (B2)	Oxidized Rhizospheres or						
Drift Deposits (B3)	Presence of Reduced Iron						
Algal Mat or Crust (B4)	Recent Iron Reduction in						
Iron Deposits (B5)	Thin Muck Surface (C7)	Shallow Aquitard (D3)					
Inundation Visible on Aerial Imagery (B7)	· — · · ·	.s)	Microtopographic F	, ,			
Sparsely Vegetated Concave Surface (Bi	3)		FAC-Neutral Test (	(D5)			
Field Observations:	· · · · · · · · · · · · · · · · · · ·						
Surface Water Present? Yes	No X Depth (inches):						
	No X Depth (inches):		- Drooms Drooms	Van No V			
Saturation Present? Yes	No X Depth (inches):	wetian	d Hydrology Present?	Yes No _X_			
(includes capillary fringe)  Describe Recorded Data (stream gauge, mor	citoring well perial photos prev	vious inspections) if	available:				
Describe Necorded Data (Stream gauge, mor	IIIOIIIIg well, actial priotos, prov	nous mapoonoms, n	avaliable.				
Remarks:							